DPD

City of Chicago
Lori E. Lightfoot, Mayor

Englewood Square Phase II
Request for Proposals
Addenda

Department of Planning and Development
Maurice D. Cox, Commissioner
City Hall Room 1000
121 N. LaSalle St.
Chicago, IL 60602

UPDATED November 18, 2020

Addenda

A. INFORMATIONAL ATTACHMENTS

A1. Neighborhood location map

A2. Site location map

A3. Site aerial

A4. Site photographs

A5. Zoning map

A6. Firehouse floor plans and photos

A7. Previous community-driven visions for the firehouse

A8. ***NEW*** Plat of Subdivision

B. POLICY RESOURCES

B1. Design Excellence Principles

B2. Design Excellence Neighborhood Design Guidelines

B3. List of Pre-Qualified Designers

B4. Community Wealth Building model

B5. Department of Housing Multi-Family Housing Financing Overview

B6. Department of Housing Affordable Price Calculator

B7. Chicago Community Land Trust overview

B8. Illinois Green Sustainability Resources

B9. Commission on Chicago Landmarks Pre-Permit Reviews summary

B10. Commission on Chicago Landmarks Standards for Rehabilitation

C. SUBMISSION FORMS AND AFFIDAVITS

(to be completed and submitted with response)

C1. Proposal Summary Form

C2. Sources and uses of funds statement

C3. Construction budget

C4. Revenue projections

C5. ***UPDATED*** Offer to Purchase

C6. Confidentiality Agreement

D. ENVIRONMENTAL REPORTS

D1. Phase I Environmental Assessment

D2. Comprehensive Site Investigation Report/Remediation Objectives Report/ Remedial Action Plan (CSIR/ROR/RAP)

D3. Illinois Environmental Protection Agency (IEPA) – Conditional Approval of CSIR/ROR/RAP

D4. Response to IEPA Comment Letter/RAP Addendum, dated April 21, 2015

D5. Response to IEPA Comment Letter/RAP Addendum, dated April 30, 2015

D6. RAP Addendum Approval Letter

D7. Remedial Action Completion Report for Lots 2 and 4

D8. Final NFR Letter for Lots 2 and 4

D9. Limited Asbestos Survey Report, Vacant Engine Company 84

D10. Mold Investigation Report, Vacant Engine Company 84

D11. Hazardous Material Survey Report, Vacant Engine Company 84

D12. Limited Lead-Based Paint Building Survey, Vacant Engine Company 84

D13. Stormwater Vault As Built Operations and Maintenance (O&M) Plan

D14. Conditions Summary of Englewood Square Phase II Lots 3 and 5

E. PROVIDED UPON REQUEST

E1. Sample Redevelopment Agreement

E2. Redevelopment Project Area Plan(s)

A. Informational Attachments

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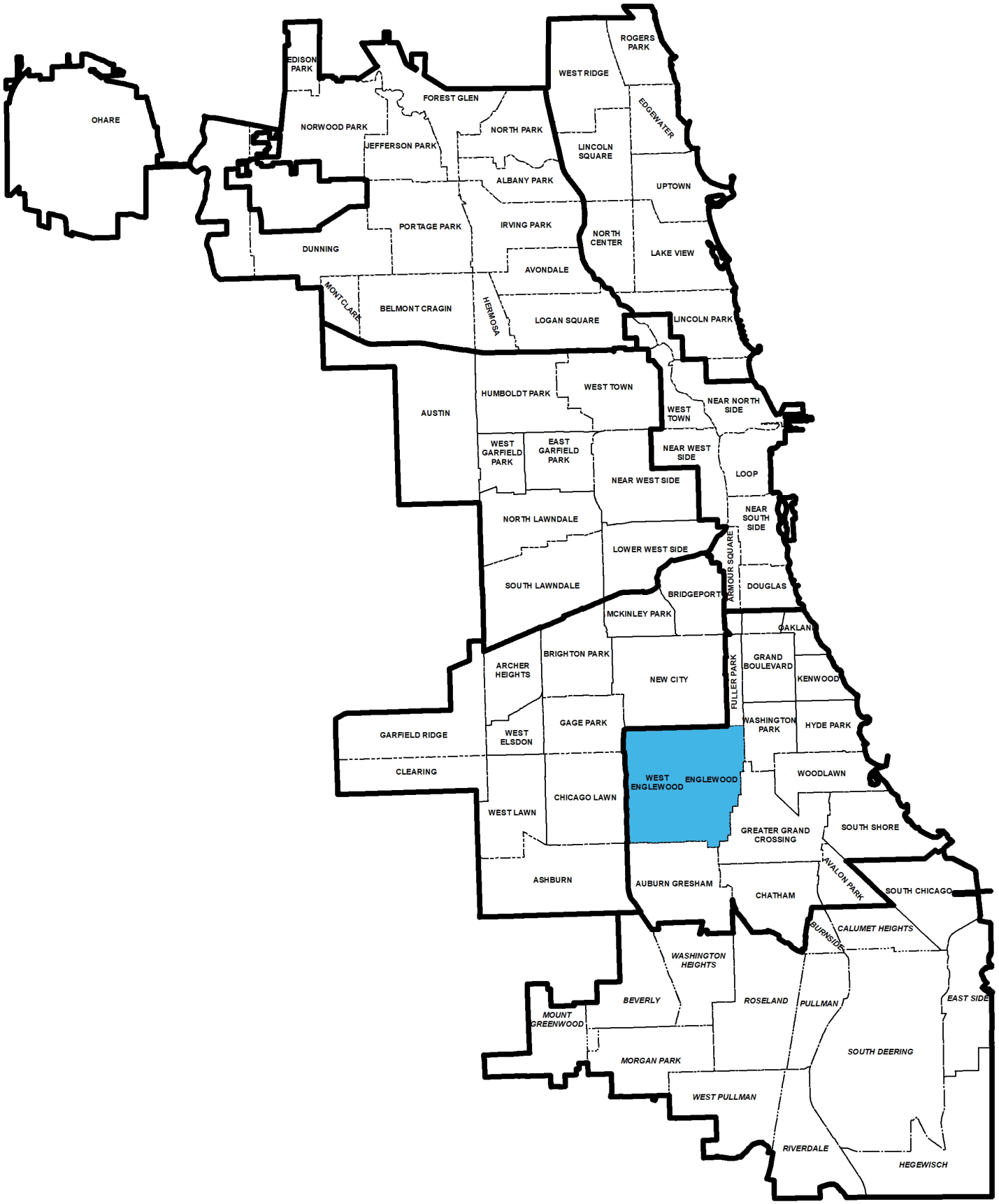
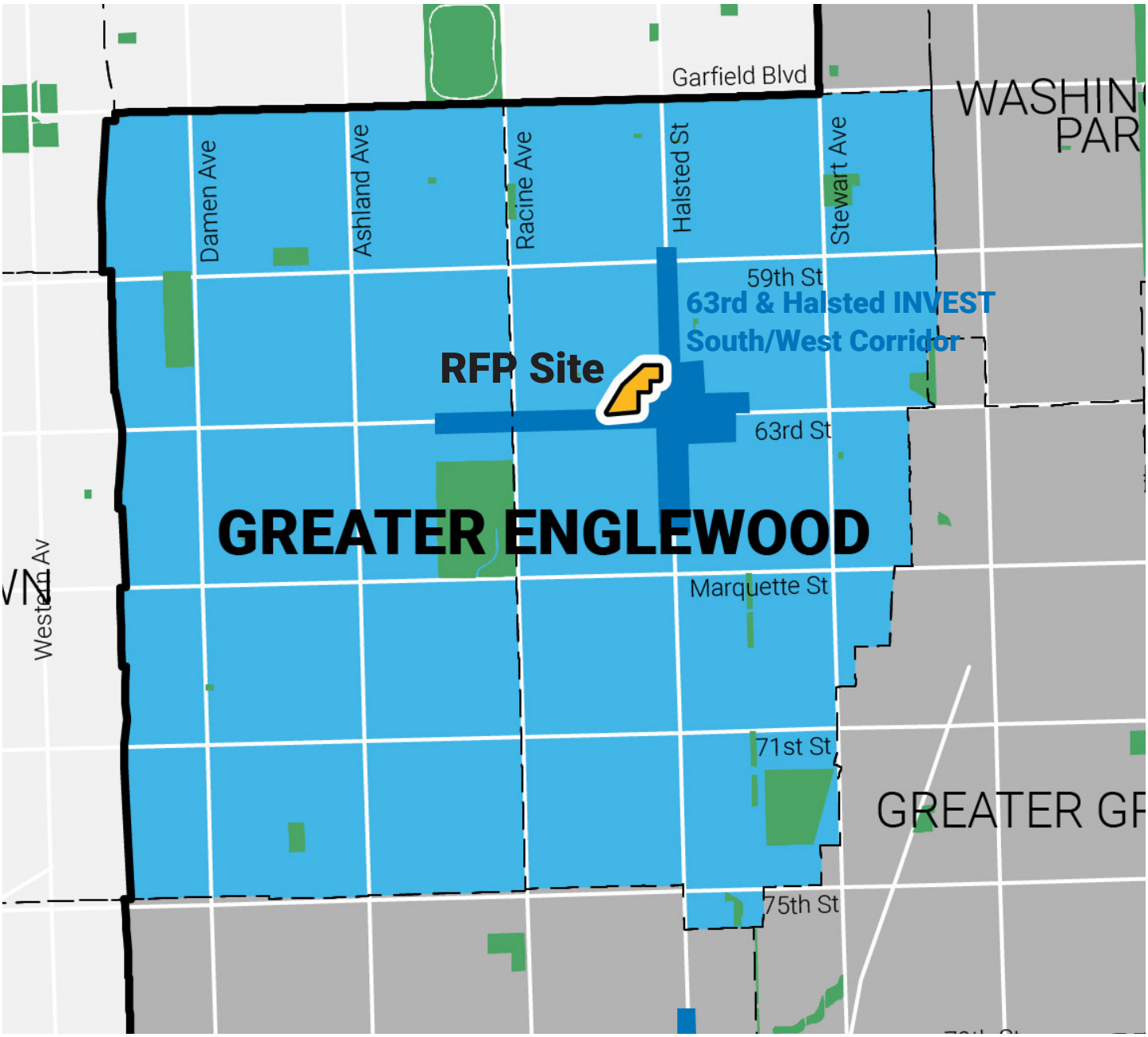
NEIGHBORHOOD LOCATION MAP



SITE LOCATION MAP



SITE AERIAL


Package A
Lot 1:
20-17-432-001
Lot 2:
20-17-432-002
S. Sangamon Street
W. 62nd Street
W. 63rd Parkway
S. Peoria Dr.
S. Green St
S. Halsted Street
Lot 3:
20-17-431-034
20-17-431-001
20-17-431-002
20-17-431-003
20-17-431-004
20-17-431-005
Lot 4:
20-17-431-035
Package B1
Package B2
Package C
Lot 7:
20-17-431-038
Englewood Square
Phase I
Lot 5:
20-17-431-036
Lot 6:
20-17-431-037
Lot 8:
20-17-431-039
W. 63rd Street
N

SITE PHOTOS



Birdseye of site from southeast

SITE PHOTOS (continued)



Birdseye of historic firehouse (Package B1)

SITE PHOTOS (continued)



Package A as viewed from South Halsted Street



Package B1 as viewed from South Peoria Drive

SITE PHOTOS (continued)

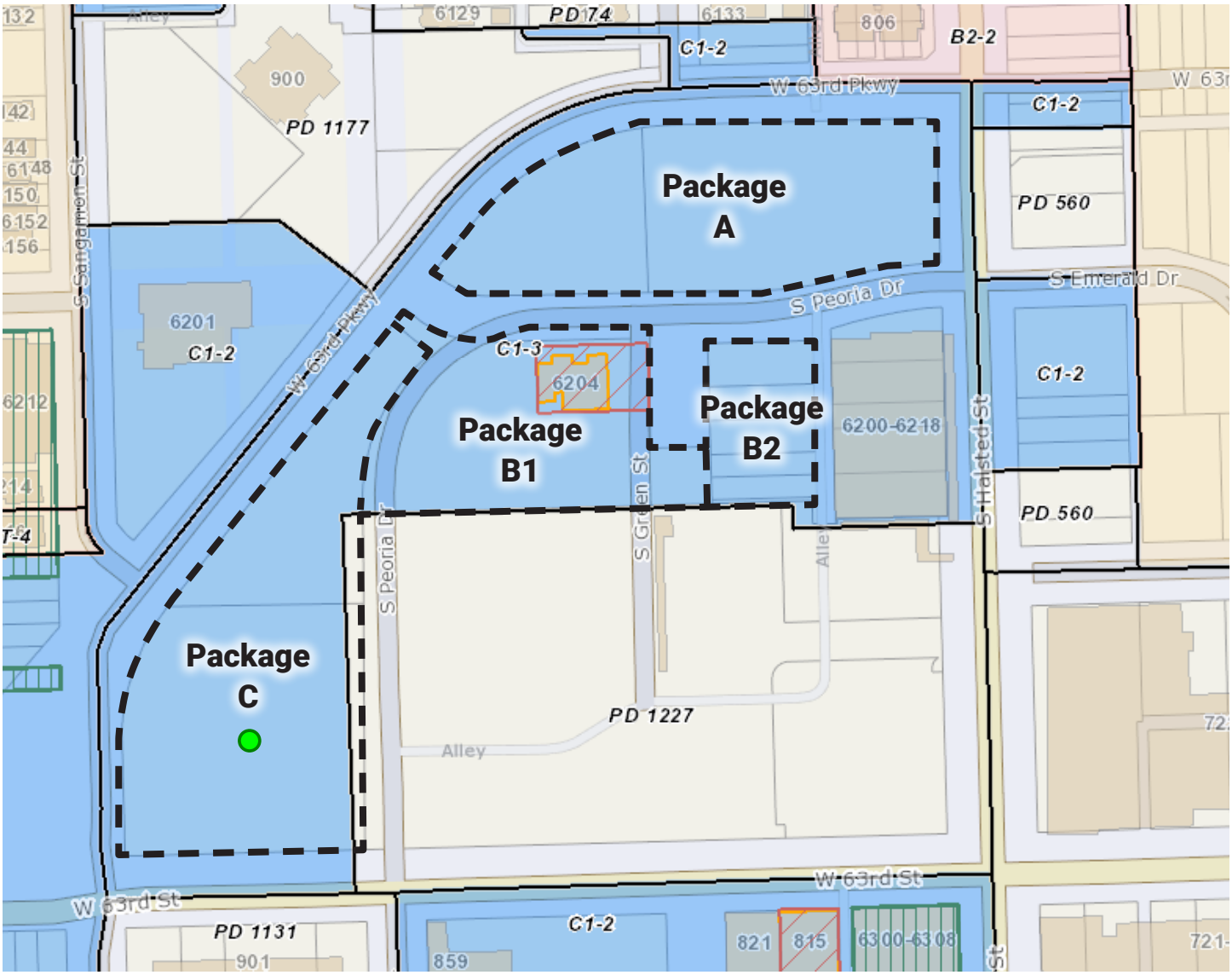


Package B2 as viewed from South Peoria Drive

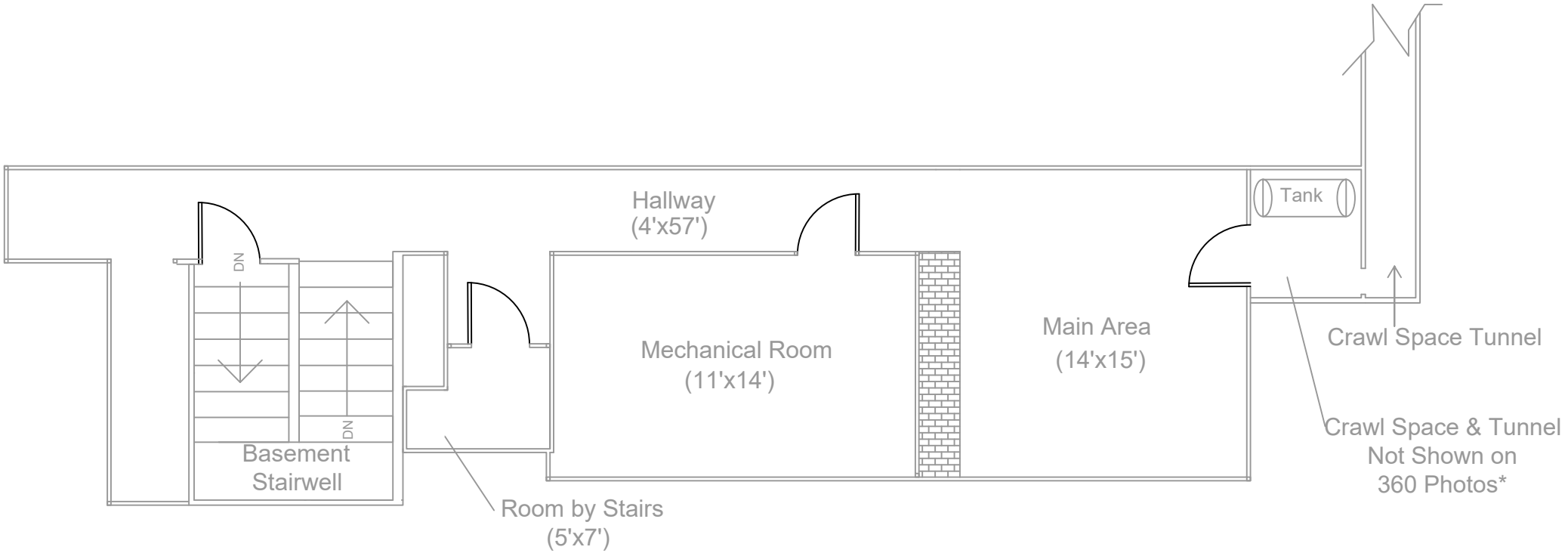


Package C as viewed from West 63rd Street

ZONING MAP



Package A
Package B1
Package B2
Package C
PD 1177
PD 74
C1-2
B2-2
W 63rd Pkwy
PD 560
S Emerald Dr
S Peoria Dr
C1-3
6204
6200-6218
S Halsted St
S Green St
S Sangamon St
6201
PD 1227
Alley
W 63rd St
PD 1131
901
859
821
815
6300-6308

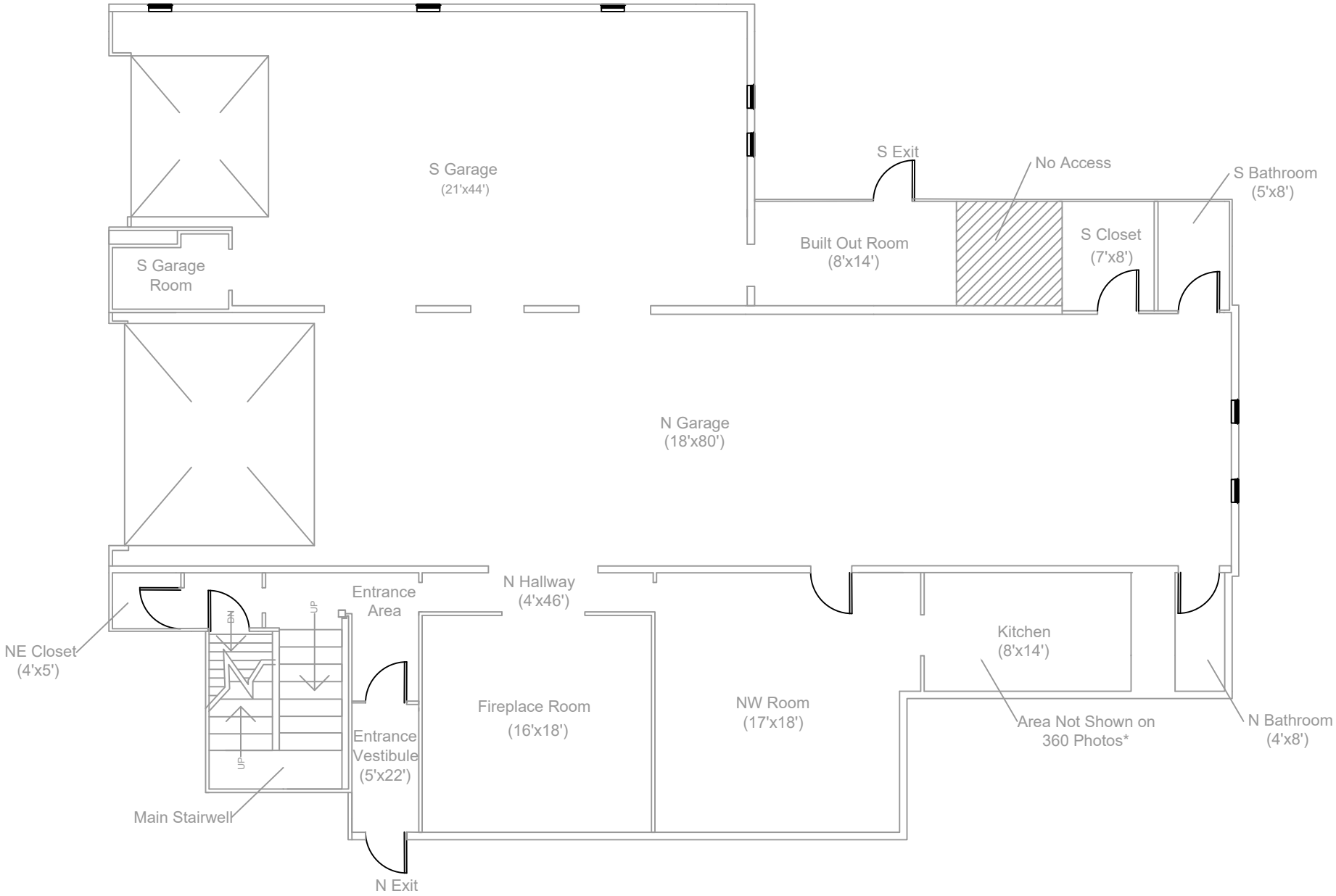


BASEMENT FLOOR FIRE HOUSE
KEY PLAN

N

*See Attached Photo Log

CLIENT: Chicago Department of Assets, Information and Services (AIS) 30 North LaSalle Street, Suite 300 Chicago, Illinois 60602	FACILITY: Fire Engine Company #84 6204 S. Green St., Chicago, Illinois 60621	SHEET TITLE: **BASEMENT FLOOR** AIS PROJECT MANAGER:	DRAWN BY: JG / DATE: 06/19/2020 / CHECKED BY: AR REVISED BY: / DATE: / CHECKED BY: REVISED BY: / DATE: / CHECKED BY: REVISED BY: / DATE: / CHECKED BY: PROJECT NAME Engine Co. 84	Carnow, Conibear & Assoc., Ltd. *Environmental Consulting Services* 600 W. Van Buren St., Suite 500, Chicago, IL 60607 t: 312.782.4486 f: 312.782.5145 www.ccaltd.com	PROJECT NUMBER - RELEASE NUMBER - DRAWING DATE June 19, 2020 SHEET NUMBER G-00

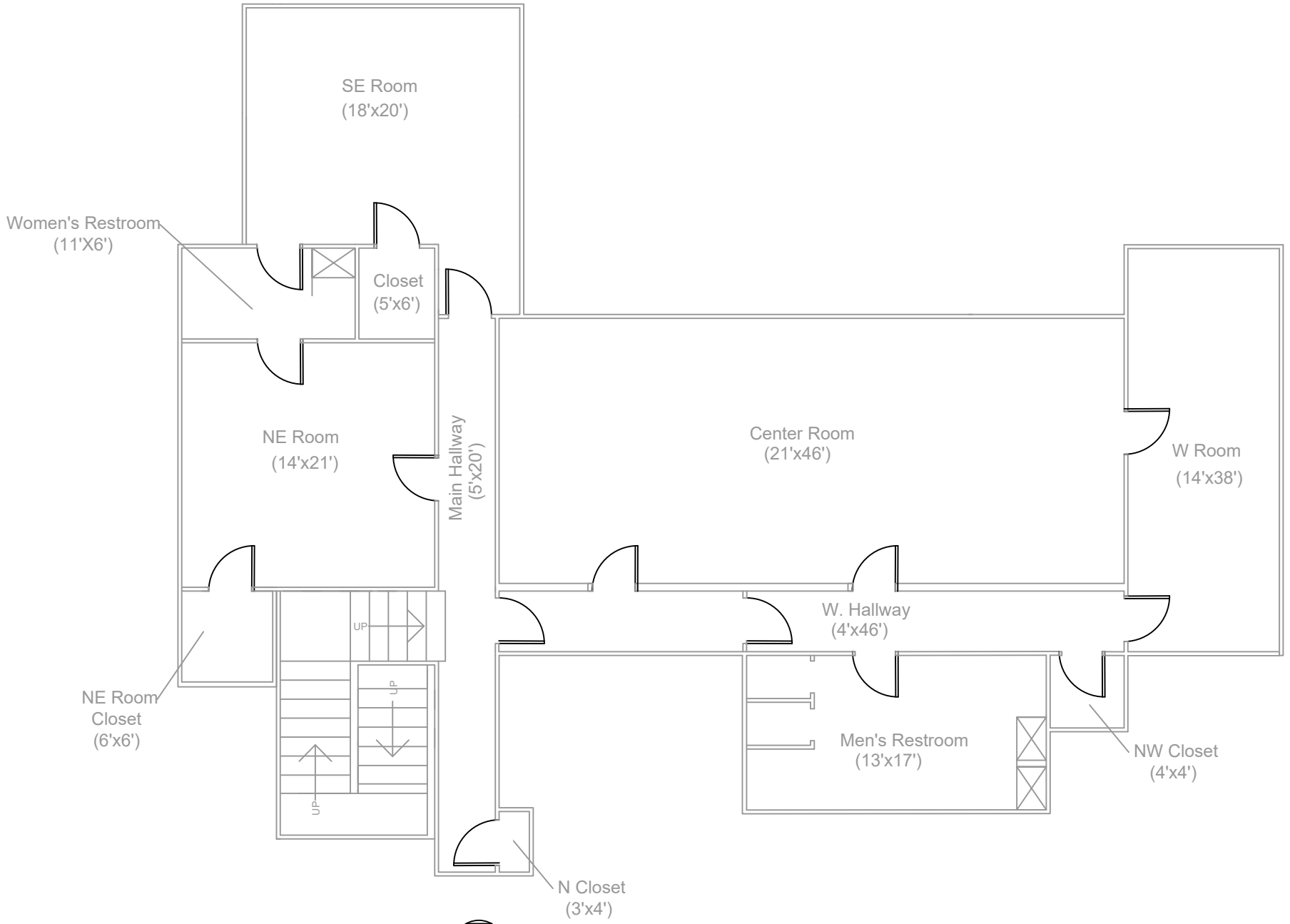


FIRST FLOOR FIRE HOUSE
KEY PLAN

N

*See Attached Photo Log

CLIENT: Chicago Department of Assets, Information and Services (AIS) 30 North LaSalle Street, Suite 300 Chicago, Illinois 60602	FACILITY: Fire Engine Company #84 6204 S. Green St., Chicago, Illinois 60621	SHEET TITLE: **FIRST FLOOR**	DRAWN BY: JG	DATE: 06/19/2020	CHECKED BY: AR	Carnow, Conibear & Assoc., Ltd. *Environmental Consulting Services* 600 W. Van Buren St., Suite 500, Chicago, IL 60607 t: 312.782.4486 f: 312.782.5145 www.ccaltd.com	PROJECT NUMBER -
			REVISED BY:	DATE:	CHECKED BY:		RELEASE NUMBER -
		AIS PROJECT MANAGER:	REVISED BY:	DATE:	CHECKED BY:		DRAWING DATE June 19, 2020
		PROJECT NAME Engine Co. 84	REVISED BY:	DATE:	CHECKED BY:		SHEET NUMBER G-01



SECOND FLOOR FIRE HOUSE
KEY PLAN

CLIENT: Chicago Department of Assets, Information and Services (AIS) 30 North LaSalle Street, Suite 300 Chicago, Illinois 60602	FACILITY: Fire Engine Company #84 6204 S. Green St., Chicago, Illinois 60621	SHEET TITLE: **SECOND FLOOR**	DRAWN BY: JG	DATE: 06/19/2020	CHECKED BY: AR
			REVISED BY:	DATE:	CHECKED BY:
			REVISED BY:	DATE:	CHECKED BY:
			REVISED BY:	DATE:	CHECKED BY:
		AIS PROJECT MANAGER:	PROJECT NAME Engine Co. 84		

Carnow, Conibear & Assoc., Ltd.
Environmental Consulting Services
600 W. Van Buren St., Suite 500, Chicago, IL 60607
t: 312.782.4486 f: 312.782.5145
www.ccaltd.com

PROJECT NUMBER	-
RELEASE NUMBER	-
DRAWING DATE	June 19, 2020
SHEET NUMBER	G-02

360-degree photos available via the following links:
Basement: https://poly.google.com/view/4krTlCO-jO6
Floor 1: https://poly.google.com/view/569IMMqGSAI
Floor 2: https://poly.google.com/view/3W_J4YnQwLF

Photo Log



Image 1 Shows Kitchen Area on 1st Floor

Photo Log



Image 2 Shows Kitchen Floor Area on 1st Floor

CARNOW CONIBEAR

Photo Log

Image 3 Shows Entrance to Crawl Space (AST Tank Area) in Basement

Photo Log

Image 4 Shows AST Tank in Crawl Space Area (Crawl Space Tunnel Not Shown) in Basement

ENGLEWOOD SQUARE

+

Phase II

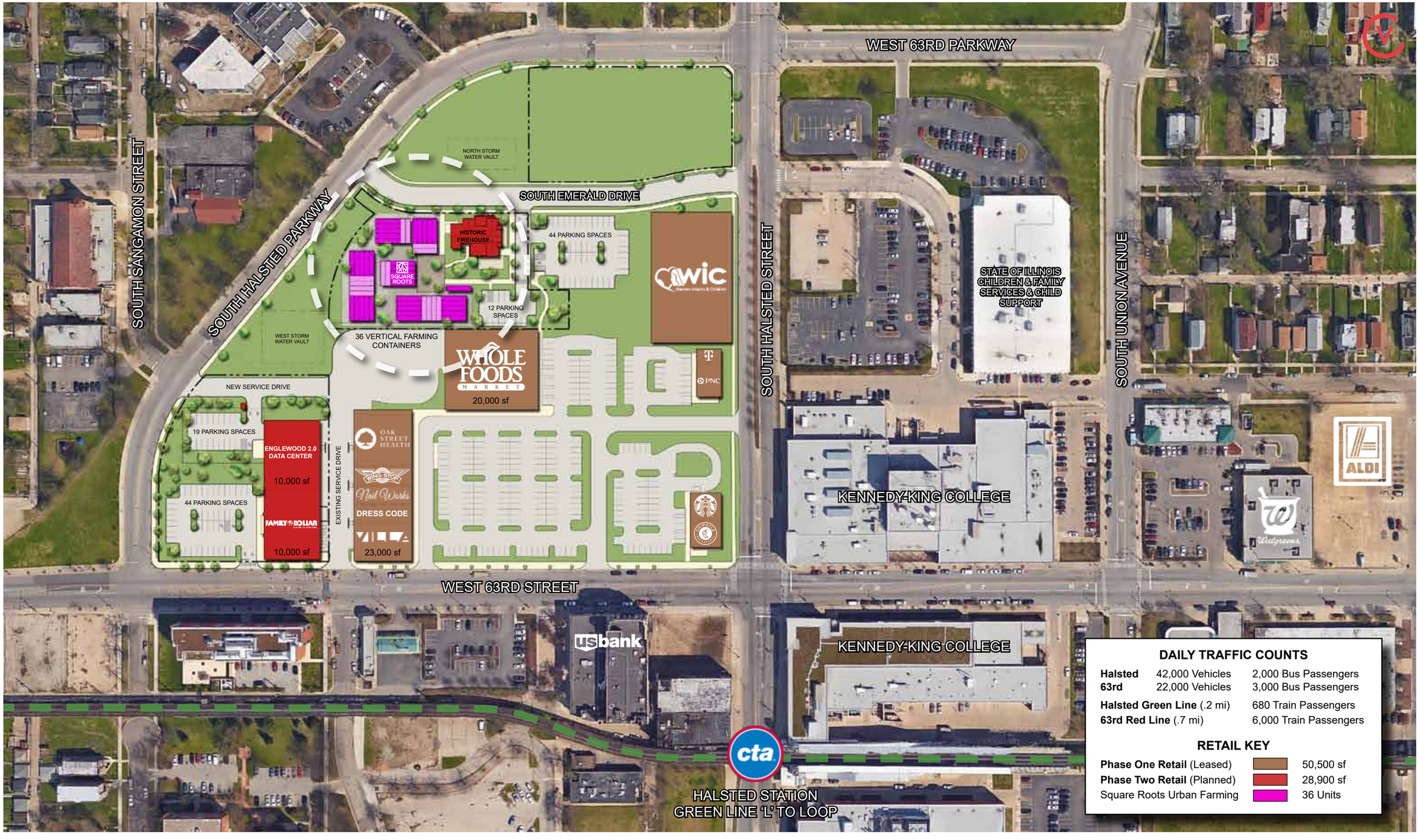
WHOLE FOODS MARKET

ENGLEWOOD SQUARE

ENGLEWOOD is a community that has often been defined by its negatives. For many that live outside of Englewood, the neighborhood has come to symbolize all that is challenging in low-income communities across Chicago and throughout the country. Englewood Square is a transformative real estate development - launched in the fall of 2016 - that has defiantly and successfully challenged the negative stereotypes and created a new business model for revitalizing an underserved community.

The first phase of Englewood Square was anchored by Whole Foods, Chipotle, and Starbucks, thanks in part to the strong backing of Mayor Rahm Emanuel. Phase Two of Englewood Square will build on this success. New tenants in Phase Two will include Square Roots - an urban farming / entrepreneurship accelerator - and "Englewood Station," a thoughtful renovation of the landmark firehouse into a showcase for permanent and rotating exhibitions expressing the rich history (and future) of Englewood. These tenants will also be joined by a new construction Family Dollar neighborhood store, and "Englewood 2.0" - a regional data center and tech training facility.

The development team is once again working in concert with the City of Chicago to bring Phase Two to fruition.



Englewood Square Phase II

Site Plan

Englewood Square - Chicago, Illinois

Ascendance Partners, LLC | Developer **Via Chicago** | Architects + Diseñadores







SQUARE ROOTS

TARGET FARMER PROFILE
AGES 18 -24

AVERAGE ANNUAL WAGES
$25,000 - $40,000

Your local farmers are growing GMO-free, pesticide-free, real food in the heart of Englewood.

They harvest your greens and curate unique selections of the freshest, most delicious varieties.

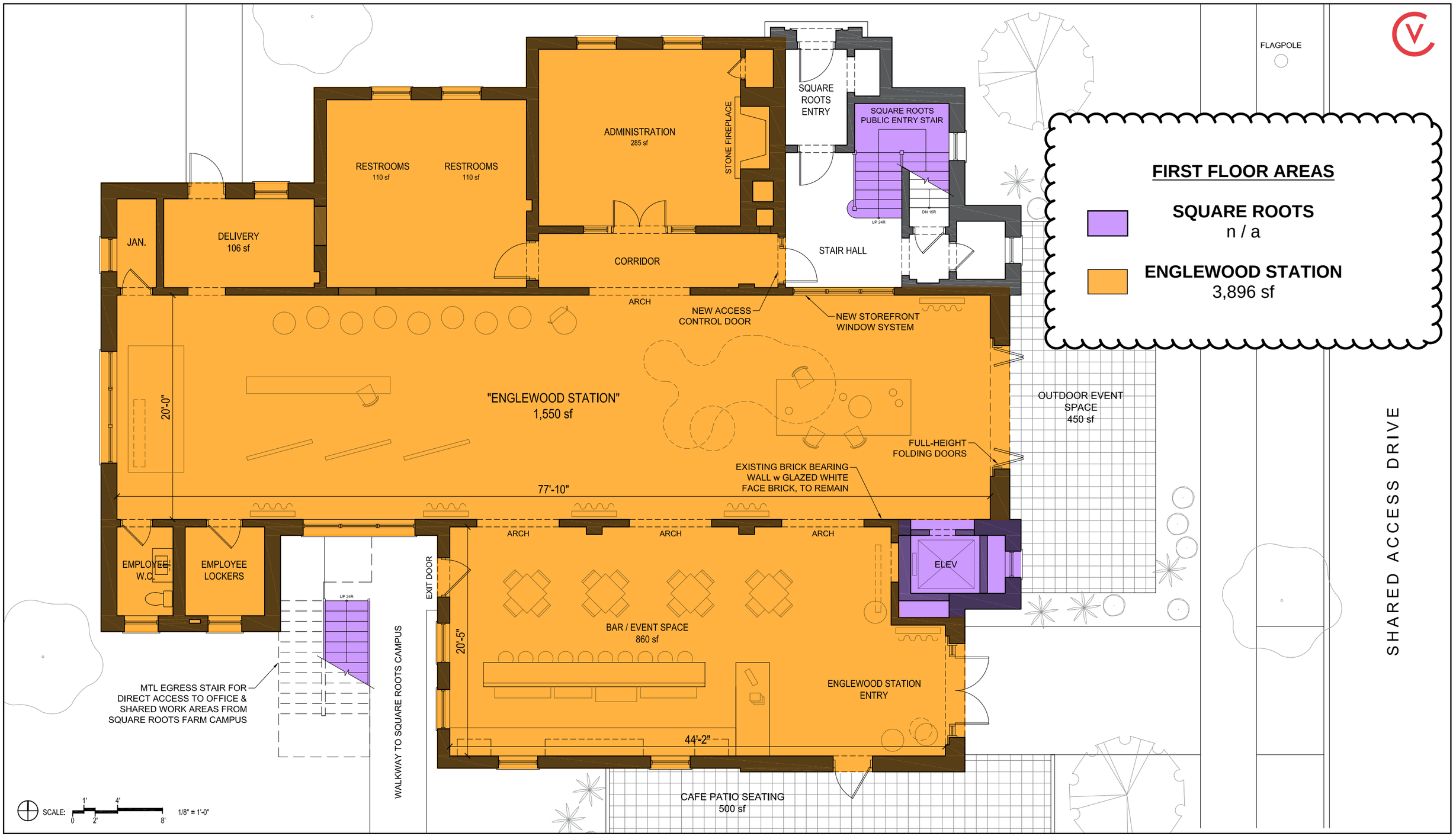
A farmer hand-delivers greens directly to your office. They're the perfect snack or healthy meal.


SQUARE
ROOTS

The landmark Englewood firehouse will be restored and revitalized as “Englewood Station” - a neighborhood cultural center and history museum.

Englewood Station is a community engagement strategy with the goal of creating a gathering point for the greater Englewood community, as well as a destination point to build on the continued success of the Englewood Square retail center. Englewood Station aims to sustain the momentum of the commercial and small business development that has grown in the community over the last few years, while preserving and elevating the history of the neighborhood for current / future residents and tourists.

This cultural endeavour will include working with Englewood residents and artists to develop the content, programming, and ongoing development strategies for the “Station.”

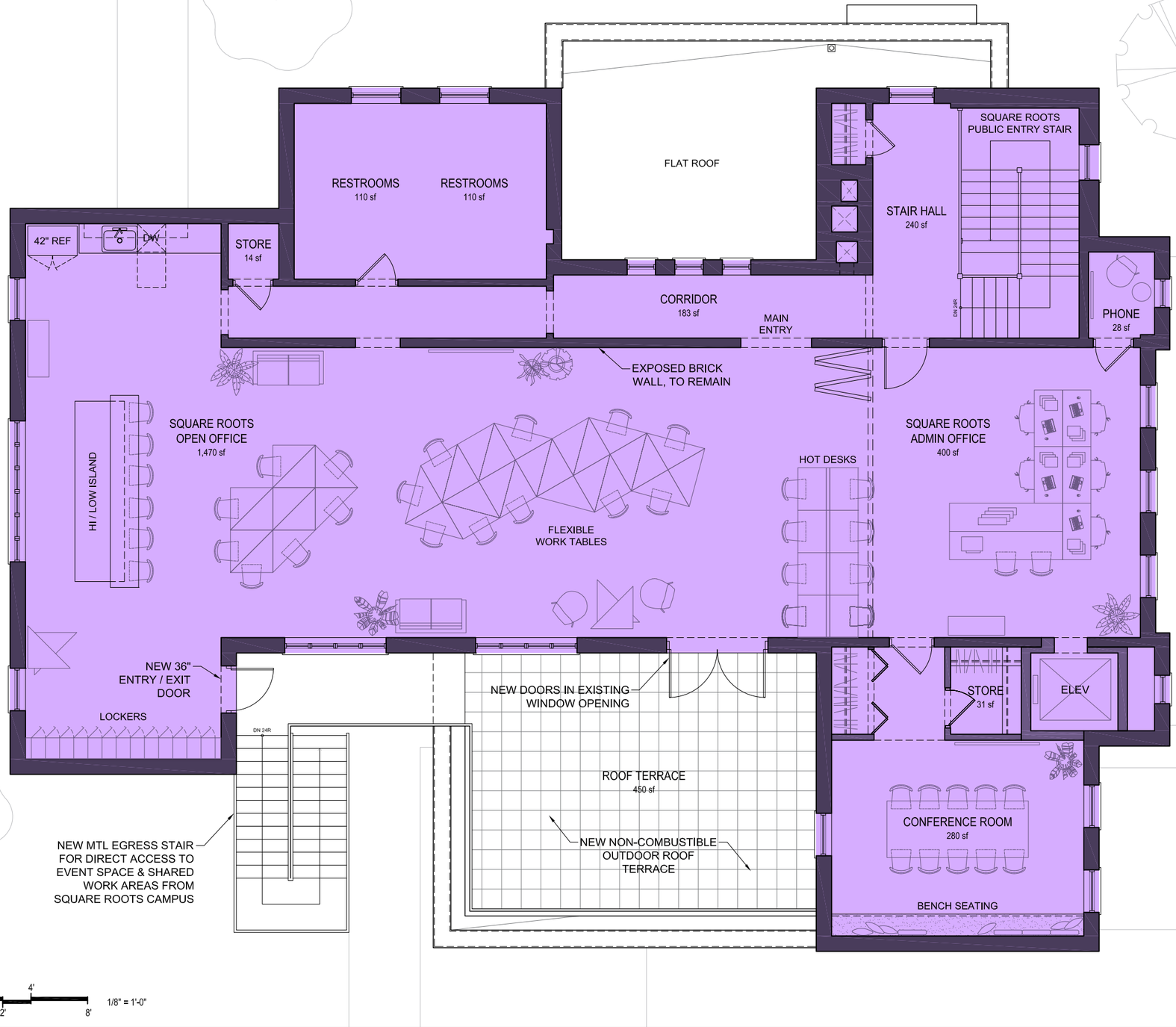


Truck 51 - Historic Firehouse Renovation

Proposed Ground Floor Plan

Englewood Square - Chicago, Illinois

Ascendance Partners, LLC | Developer **Via Chicago** | Architects + Diseñadores



SECOND FLOOR AREAS

SQUARE ROOTS
3,275 sf

ENGLEWOOD STATION
n / a

Truck 51 - Historic Firehouse Renovation

Englewood Square - Chicago, Illinois

Ascendance Partners, LLC | Developer **Via Chicago** | Architects + Diseñadores

Proposed Second Floor Plan



Truck 51 - Historic Firehouse Renovation

Englewood Square - Chicago, Illinois

Ascendance Partners, LLC | Developer **Via Chicago** | Architects + Diseñadores

Eastern Approach - Conceptual Sketch

Ascendance Partners is a commercial real estate investment firm, founded in 2006, that manages investment funds for foundations, endowments, pension funds, family offices and high net worth individuals. Ascendance has a successful track record of value add commercial real estate investment throughout metropolitan Chicago. Englewood Square will represent its latest transformative real estate development and will carry on the successful legacy established in the first phase.

Ascendance Partners

Developer

Ascendance Partners

Local Initiatives Support Corporation (LISC) Chicago is the local office of the nation's leading community development support organization, working in Chicago neighborhoods since 1980. With residents and partners, LISC forges resilient and inclusive communities of opportunity across America – great places to live, work, visit, do business and raise families.

LISC Chicago

Fiscal Agent + Partner

LISC

Via Chicago is a boutique architectural studio based in Chicago and Panamá, with particular experience in the revitalization of historic buildings. Via Chicago joins the team to guide this unique and exciting project through Chicago's complex building approval process. The architects will strive to ensure that the design of Englewood Square and its reborn firehouse remain durable, beautiful, and adaptable long after the latest trends have faded. Via Chicago is certified as a Minority and Women-Owned Business Enterprise (M/WBE) by the City of Chicago.

Via Chicago Architects × Diseñadores

Architect + Project Manager

Via Chicago

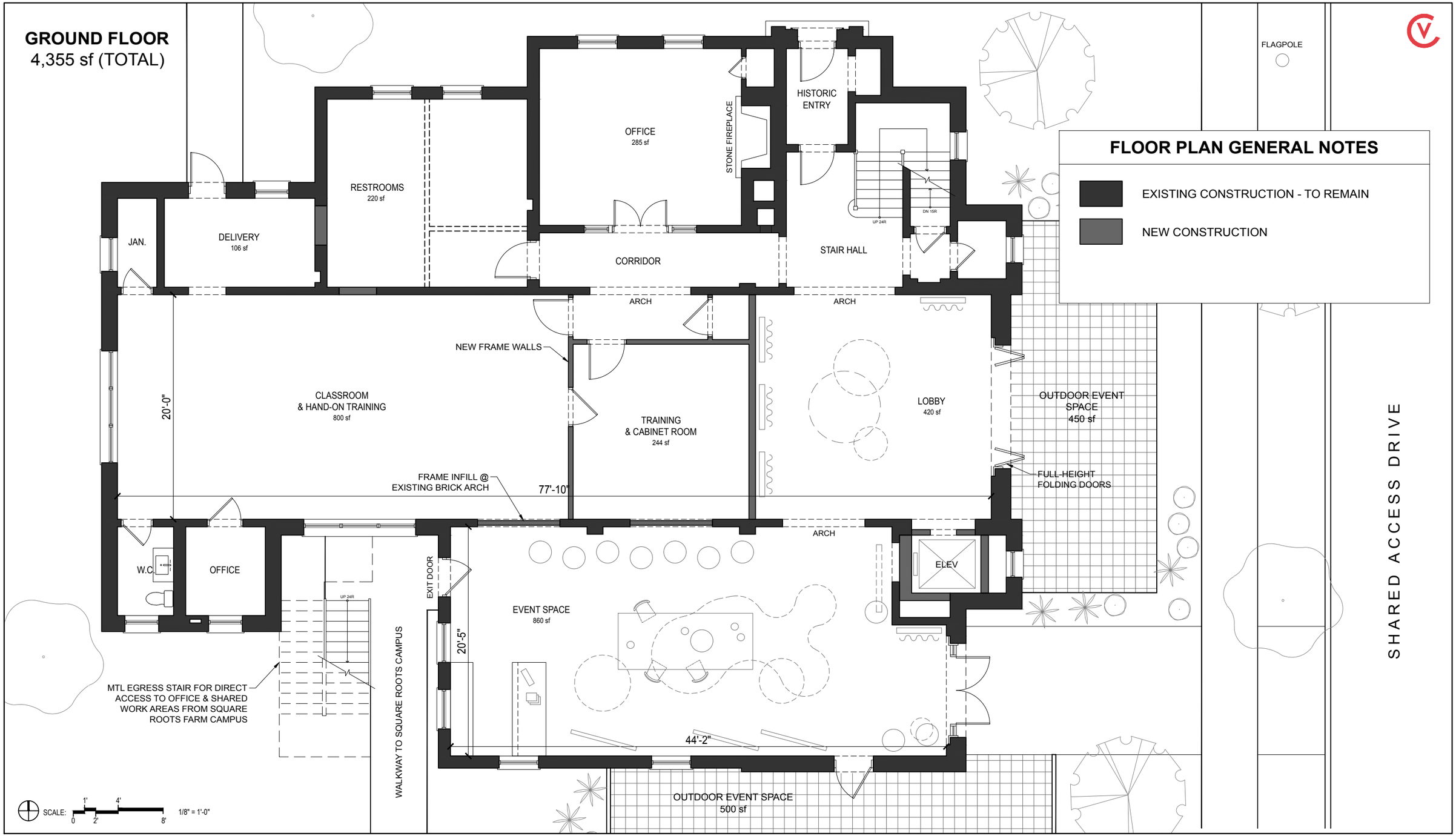
The Alter Group, founded in 1955, is a national corporate real estate development firm of office, industrial and healthcare facilities. Additionally, Alter provides comprehensive services in brokerage, construction, investment, property and asset management services. Alter has developed close to 100,000,000 SF of speculative projects for its own portfolio and build-to-suit facilities for corporate users. Alter joined the Englewood Square team based on a nearly twenty year relationship with a principal of Ascendance, and will advise on construction and development-related issues.

alter

Strategic Partner

The Alter Group

GROUND FLOOR
4,355 sf (TOTAL)



FLOOR PLAN GENERAL NOTES

- EXISTING CONSTRUCTION - TO REMAIN
- NEW CONSTRUCTION

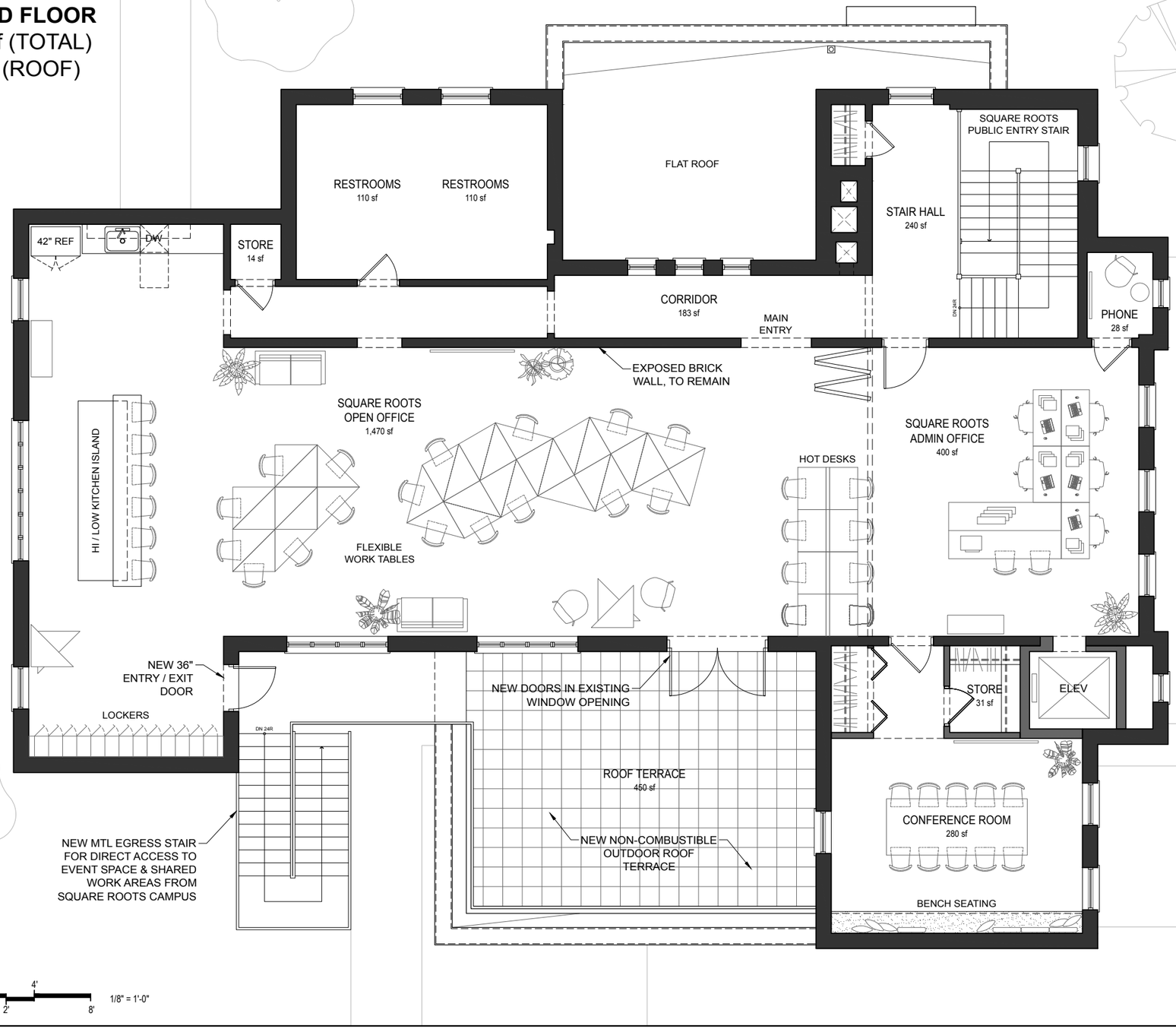
Engine Co. 84 Truck 51 - Historic Firehouse Renovation

Proposed Ground Floor Plan

6204 South Green Street - Chicago, Illinois
Ascendance Partners, LLC | Developer **Via Chicago** | Architects + Diseñadores

27 October 2018

SECOND FLOOR
3,275 sf (TOTAL)
945 sf (ROOF)



FLOOR PLAN GENERAL NOTES

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Engine Co. 84 Truck 51 - Historic Firehouse Renovation

Proposed Second Floor Plan

6204 South Green Street - Chicago, Illinois
Ascendance Partners, LLC | Developer **Via Chicago** | Architects + Diseñadores

27 October 2018



Firehouse I/O

Proposal

Repurpose the vacant firehouse at 6204 S. Green into an engine for jobs and local economic growth.



Firehouse I/O is...

A place for business where entrepreneurs collaborate and create opportunity.

A place for youth to learn tech skills to compete in the new economy.

A place for community meetings and events.

Business



A coworking hub and cooperative kitchen to grow a network of local entrepreneurs.

Youth



Innovative training programs to develop the next generation of tech leaders.

Community



A flexible space for public meetings and private events.

Strategic Alignment

PLAN FOR ECONOMIC GROWTH & JOBS



Chicago Plan for Economic Growth

Strategy 9: Develop and deploy neighborhood assets to align with regional economic growth.

Strategic Alignment



Chicago Tech Plan

Initiative 8: Educate and engage young people in technology.

Initiative 21: Expand the numbers of incubators and co-working spaces in the city.

Strategic Alignment



GHN Land Use Plan

Cluster retail and business around public transportation nodes.

Planning

- 501(c)(3) *like 1871 and BLUE1647*
- Earned income from memberships, sponsorships and event rentals will cover operating expenses.
- Grant income will cover staff and programming expenses.

Planning

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- Earned income from memberships, sponsorships and event rentals will cover operating expenses.
- Grant income will cover staff and programming expenses.

Planning Process



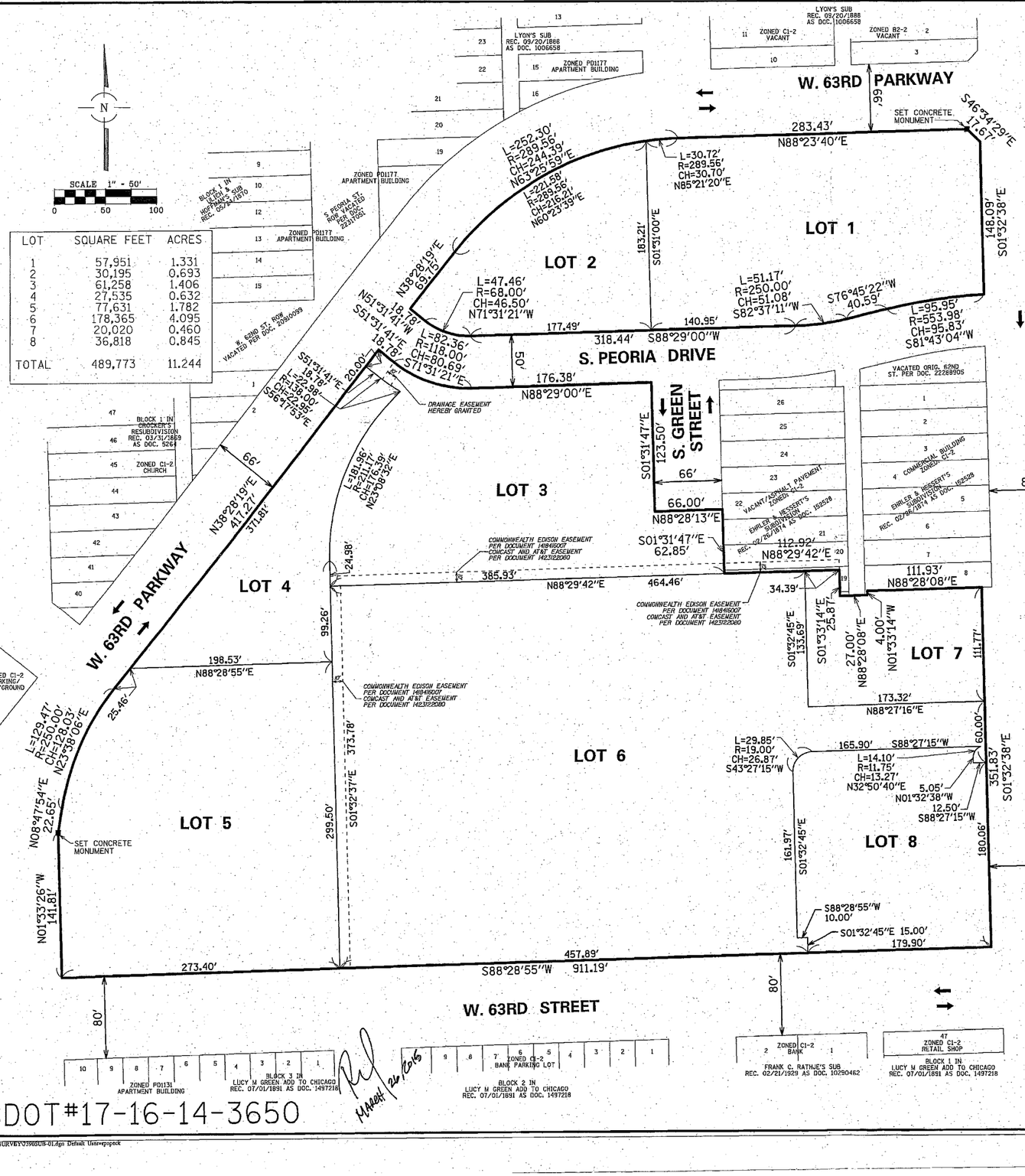
- Create community working groups on technology, food and job creation
- Develop a plan that fully explores the viability of the firehouse as a location for food and technology initiatives
- Partner with organizations, institutions and corporations to support the concept

1508916071
Doc#: 1508916071 Fee: $140.00
RHSP Fee:$9.00 RPRF Fee: $1.00
Karen A.Yarbrough
Cook County Recorder of Deeds
Date: 03/30/2015 04:26 PM Pg: 0

EXHIBIT "A"

PLAT OF SUBDIVISION
HALSTED PARKWAY RESUBDIVISION

BEING A RESUBDIVISION OF PART OF THE SOUTHEAST QUARTER OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS



LOT	SQUARE FEET	ACRES
1	57,951	1.331
2	30,195	0.693
3	61,258	1.406
4	27,535	0.632
5	77,631	1.782
6	178,365	4.095
7	20,020	0.460
8	36,818	0.845
TOTAL	489,773	11.244

OWNER'S CERTIFICATE

STATE OF ILLINOIS } SS
COUNTY OF COOK }

THIS IS TO CERTIFY THAT THE CITY OF CHICAGO, A MUNICIPAL CORPORATION OF ILLINOIS IS OWNER OF THE PROPERTY DESCRIBED HEREON AND THAT IT HAS CAUSED THE SAID PROPERTY TO BE SURVEYED AND SUBDIVIDED AS SHOWN HEREON FOR THE USES AND PURPOSES THEREIN SET FORTH, AND DOES HEREBY ACKNOWLEDGE AND ADOPT THE SAME UNDER THE TITLE THEREON INDICATED.

THIS IS TO ALSO CERTIFY THAT AS OWNER OF THE PROPERTY AS LEGALLY DESCRIBED ON THIS PLAT, WE HAVE DETERMINED TO THE BEST OF OUR KNOWLEDGE THE SCHOOL DISTRICT IN WHICH EACH OF THE FOLLOWING LOTS LIE.

SCHOOL DISTRICTS

ELEMENTARY SCHOOL DISTRICT NO. 299
HIGH SCHOOL DISTRICT NO. 299
JUNIOR COLLEGE DISTRICT NO. 508

DATED THIS 30 DAY OF March, A.D. 2014.

SIGNED:
ANDREW MOONEY, COMMISSIONER
DEPARTMENT OF PLANNING AND DEVELOPMENT.

NOTARY PUBLIC CERTIFICATE

STATE OF ILLINOIS } SS
COUNTY OF COOK }

I, Patricia Sulewski, A NOTARY PUBLIC IN AND FOR THE COUNTY AND STATE AFORESAID, DO HEREBY CERTIFY THAT ANDREW MOONEY, COMMISSIONER, DEPARTMENT OF PLANNING AND DEVELOPMENT OF THE CITY OF CHICAGO WHO IS PERSONALLY KNOWN TO ME TO BE THE SAME WHOSE NAME IS SUBSCRIBED TO THE FOREGOING CERTIFICATE, APPEARED BEFORE ME THIS DAY IN PERSON AND ACKNOWLEDGED THAT HE/SHE DID SIGN AND DELIVER THIS INSTRUMENT AS A FREE AND VOLUNTARY ACT FOR THE USES AND PURPOSES HEREIN SET FORTH.

GIVEN UNDER MY HAND AND NOTARIAL SEAL.
THIS 30th DAY OF MARCH, A.D. 2015.
Patricia Sulewski
NOTARY PUBLIC

PATRICIA SULEWSKI
OFFICIAL SEAL
Notary Public - State of Illinois
My Commission Expires
May 07, 2018

DRAINAGE EASEMENT

AN EASEMENT IS HEREBY RESERVED FOR THE INDIVIDUAL LOT OWNERS OVER, ON, ACROSS AND UNDER ALL OF THE AREAS DESIGNATED "DRAINAGE EASEMENT", TOGETHER WITH THE RIGHT OF ACCESS THERETO, TO INSTALL, OPERATE AND MAINTAIN UNDERGROUND AND SURFACE DRAINAGE FACILITIES AND WATER COURSES. NO PERMANENT BUILDINGS SHALL BE PLACED ON SAID EASEMENT, BUT SAME MAY BE USED FOR GARDENS, SHRUBS, LANDSCAPING AND OTHER PURPOSES THAT DO NOT THEN OR LATER INTERFERE WITH THE AFORESAID USES OR THE RIGHTS HEREIN GRANTED.

I FIND NO DEFERRED INSTALLMENTS OF OUTSTANDING UNPAID SPECIAL ASSESSMENTS DUE AGAINST THE LAND INCLUDED IN THE ABOVE PLAT.
DEPT. OF FINANCE - CHICAGO
BY 3/24/15

CITY CLERK - DEPT OF FINANCE

I DO NOT FIND ANY DELINQUENT GENERAL TAXES UNPAID CURRENT GENERAL TAXES DELINQUENT SPECIAL ASSESSMENTS OR UNPAID CURRENT SPECIAL ASSESSMENTS AGAINST THE TRACT OF LAND IN THE ABOVE PLAT.
DAVID ORR
COUNTY CLERK
DATE March 24, 2015

COOK CO. CLERK

CITY OF CHICAGO APPROVED
RICHARD E. LUNA, PLS
SUPERINTENDENT OF MAPS & PLATS

EXAMINER OF SUBDIVISIONS COOK COUNTY, ILLINOIS
Date: MARCH 30, 2015
Mapa File # 17-16-14-3650
City Council Approved OCT. 8, 2014
CDOT

Property Taxes satisfied per Case 2014 L 50895 Cook County Circuit Court January 13, 2015
03/26/2015

STATE OF ILLINOIS } SS
COUNTY OF COOK }

WE DECLARE THAT THE ABOVE DESCRIBED PROPERTY WAS SURVEYED AND SUBDIVIDED BY SPACECO, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM, NUMBER 184-001157, AND THAT THE PLAT HEREON DRAWN IS A CORRECT REPRESENTATION OF SAID SURVEY. ALL DISTANCES ARE SHOWN IN FEET AND DECIMALS THEREOF.

SAID PROPERTY CONTAINS 489,773 SQUARE FEET OR 11.244 ACRES, MORE OR LESS.

WE FURTHER DECLARE, BASED UPON A REVIEW OF THE FLOOD INSURANCE RATE MAP (F.I.R.M.) COMMUNITY PANEL/MAP NUMBER 17031C1D0DS, AN INDEX, DATED AUGUST 19, 2008, CONTAINS NOTATION "PANEL NOT PRINTED - NO SPECIAL FLOOD HAZARD AREAS", BUT BASED ON THIS INDEX THE SURVEYED PROPERTY WOULD BE INCLUDED IN MAP NUMBER 17031C0520J, IF PRINTED.

WE FURTHER DECLARE THAT STEEL RE-ENFORCING RODS (UNLESS OTHERWISE NOTED) WILL BE SET AT ALL LOT CORNERS.

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY, AS APPLICABLE TO PLATS OF SUBDIVISION.

GIVEN UNDER OUR HAND AND SEAL THIS 19TH DAY OF MARCH, 2015 IN ROSEMONT, ILLINOIS.

REBECCA Y. POPECK, I.P.L.S. No. 035-3642
LICENSE EXPIRES: 11-30-2016

(VALID ONLY IF EMBOSSED SEAL AFFIXED)

REBECCA Y. POPECK 3642 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS ROSEMONT, ILLINOIS

Mail to:
Terry L. Diamond
Neal and Leroy, LLC
120 N. LaSalle Ste. 2000
Chicago, Illinois 60602

CDOT#17-16-14-3650
MARCH 26, 2015

REVISIONS:
08/07/13,08/30/13
02/10/14,08/27/14
08/28/14,08/29/14
03/19/15

SPACECO, INC.
CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS
9575 W. Higgins Road, Suite 700, Rosemont, Illinois 60018
Phone: (847) 696-4060 Fax: (847) 696-4065

DATE: 06/06/2013
JOB NO: 7390
FILENAME: 7390SUB-01
SHEET 1 OF 3

N:\Projects\7390\SURVEY\7390SUB-01.dgn Default User=rpopeck

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HALSTED PARKWAY RESUBDIVISION

BEING A RESUBDIVISION OF PART OF THE SOUTHEAST QUARTER OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS

TAX P.I.N.s:

20-17-422-036	20-17-422-037	20-17-422-038
20-17-422-043	20-17-423-016	20-17-423-017
20-17-423-019	20-17-423-034	20-17-423-035
20-17-423-036	20-17-423-037	20-17-423-038
20-17-423-039	20-17-423-040	20-17-429-010
20-17-429-011	20-17-429-012	20-17-429-013
20-17-429-014	20-17-429-015	20-17-429-016
20-17-429-017	20-17-429-018	20-17-429-019
20-17-429-020	20-17-429-023	20-17-429-024
20-17-429-025	20-17-429-026	20-17-429-027
20-17-429-028	20-17-429-029	20-17-429-030
20-17-429-031	20-17-429-032	20-17-429-034
20-17-429-035	20-17-429-036	20-17-429-045
20-17-429-046	20-17-429-049	20-17-429-050
20-17-429-051	20-17-430-001	20-17-430-002
20-17-430-003	20-17-430-004	20-17-430-005
20-17-430-006	20-17-430-007	20-17-430-008
20-17-430-009	20-17-430-010	20-17-430-011
20-17-430-012	20-17-430-013	20-17-430-014
20-17-430-015	20-17-430-016	20-17-430-017
20-17-430-018	20-17-430-019	20-17-430-020
20-17-430-021	20-17-430-022	20-17-430-023
20-17-430-024	20-17-430-025	20-17-430-026
20-17-430-027	20-17-430-028	20-17-430-029
20-17-430-030	20-17-430-031	20-17-430-032
20-17-430-033	20-17-430-034	20-17-430-035
20-17-431-003	20-17-431-004	20-17-431-005
20-17-431-006	20-17-431-007	20-17-431-008
20-17-431-009	20-17-431-010	20-17-431-011
20-17-431-015	20-17-431-016	20-17-431-017
20-17-431-023	20-17-431-024	20-17-431-025
20-17-431-026	20-17-431-027	20-17-431-028
20-17-431-030	20-17-431-031	20-17-431-032
20-17-431-033		

SURVEYOR'S NOTES:

1. ALL DIMENSIONS SHOWN HEREON ARE MEASURED UNLESS NOTED.
2. BASIS OF BEARINGS: TRUE NORTH BASED ON GEODETIC OBSERVATION IL EAST ZONE
3. PREPARED FOR:
CR/DACCORD, INC.
309 WEST WASHINGTON, SUITE 405
CHICAGO, ILLINOIS 60606
4. NO DIMENSIONS SHOULD BE ASSUMED BY SCALE MEASUREMENTS UPON THE PLAT.
5. ZONING INFORMATION SHOWN HEREON BASED ON CHICAGO DEPARTMENT OF ZONING ON-LINE ZONING MAP ACCESSED FEBRUARY 10, 2014.
6. SITE CURRENTLY ZONED: BPD-1227.
7. LAST DAY OF FIELD WORK: FEBRUARY 3, 2013.

LEGEND

- BOUNDARY LINE
- EXISTING RIGHT-OF-WAY OR LOT LINE
- PREVIOUS LOT LINE
- PARCEL LINE
- IRON PIPE (IP)
- CUT CROSS
- PK / MAG NAIL
- XX.XX'(R) RECORD DIMENSION
- TRAFFIC FLOW DIRECTION
- PKA PREVIOUSLY KNOWN AS
- POB POINT OF BEGINNING
- POC POINT OF COMMENCEMENT

CURVE NO.	LENGTH	RADIUS	CHORD	CHORD BEARING
C1	82.36'	118.00'	80.69'	S71°31'21"E
C3	51.17'	250.00'	51.08'	S82°37'11"W
C4	47.46'	68.00'	46.50'	N71°31'21"W
C5	21.62'	68.00'	21.53'	N82°24'33"W
C6	82.43'	249.51'	82.06'	S79°01'08"W
C7	69.26'	249.51'	69.04'	S80°31'53"W
C8	8.18'	300.00'	8.18'	N80°29'17"E
C9	54.57'	118.00'	54.08'	S78°16'10"E
C10	25.42'	118.00'	25.37'	S57°41'59"E
C11	25.84'	68.00'	55.37'	N62°24'54"W

CDOT#17-16-14-3650

REVISIONS:
08/07/13-08/30/13
02/18/14-08/27/14
08/28/14-08/29/14
03/19/15

CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS

9575 W. Higgins Road, Suite 700,
Rosemont, Illinois 60018
Phone: (847) 696-4060 Fax: (847) 696-4065

DATE: 06/06/2013
JOB NO: 7390.
FILENAME: 7390SUB-01
SHEET 2 OF 3

N:\Projects\7390\SURVEY\7390SUB-01.dgn SHEET 2 User:popeck

EXHIBIT "A"

PLAT OF SUBDIVISION

HALSTED PARKWAY RESUBDIVISION

BEING A RESUBDIVISION OF PART OF THE SOUTHEAST QUARTER OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS

PARCEL 1

THAT PART OF THE FOLLOWING FOUR PARCELS OF LAND TAKEN AS ONE TRACT OF LAND, EXCEPT THAT PART OF SAID TRACT LYING NORTHWESTERLY OF THE SOUTHEASTERLY LINE OF WEST 63RD PARKWAY, OPENED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282:

PARCEL 1A:
LOTS 6 THROUGH 21, AND LOTS 25 THROUGH 36 ALL IN BLOCK 1 IN CROCKER'S RESUBDIVISION OF THE SOUTH 1/2 OF THE WEST 1/2 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED AUGUST 5, 1856 AS DOCUMENT 74312, IN COOK COUNTY, ILLINOIS, EXCEPTING THEREFROM THAT PART OPENED FOR PUBLIC RIGHT OF WAY AS W. 63RD STREET BY ORDINANCE RECORDED MARCH 17, 2015 AS DOCUMENT NUMBER 1507634070; AND,

PARCEL 1B:
LOTS 1 THROUGH 5, ALL INCLUSIVE IN THE BOYD'S RESUBDIVISION OF LOTS 22, 23, AND 24 OF BLOCK 1 IN CROCKER'S RESUBDIVISION OF RESUBDIVISION OF THE SOUTH 1/2 OF THE WEST 1/2 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED MAY 25, 1894 AS DOCUMENT 2048915, IN COOK COUNTY, ILLINOIS, EXCEPTING THEREFROM THAT PART OPENED FOR PUBLIC RIGHT OF WAY AS W. 63RD STREET BY ORDINANCE RECORDED MARCH 17, 2015 AS DOCUMENT NUMBER 1507634070; AND,

PARCEL 1C:

ALL THAT PART OF THE VACATED 16 FOOT WIDE NORTH-SOUTH PUBLIC ALLEY IN SAID BLOCK 1 IN CROCKER'S RESUBDIVISION OF THE SOUTH 1/2 OF THE WEST 1/2 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED AUGUST 5, 1856 AS DOCUMENT 74312, VACATED BY ORDINANCE RECORDED MARCH 17, 2015 AS DOCUMENT NUMBER 1507634072, IN COOK COUNTY, ILLINOIS; AND,

PARCEL 1D:

THAT PART OF VACATED ORIGINAL S. PEORIA STREET LYING EAST OF LOTS 5 THROUGH 17, ALL INCLUSIVE IN BLOCK 1 IN CROCKER'S RESUBDIVISION RECORDED AUGUST 5, 1856 AS DOCUMENT 74312 AND WEST OF AND ADJOINING THE WEST LINE OF S. PEORIA DRIVE AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282, ALL IN THE SOUTHEAST 1/ 4 OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, VACATED BY ORDINANCE RECORDED MARCH 17, 2015 AS DOCUMENT NUMBER 1507634072, IN COOK COUNTY, ILLINOIS.

ALSO;
PARCEL 2

PARCEL 2A:
LOTS 1 THROUGH 20, ALL INCLUSIVE, IN CATHLEEN E. SEEHANSEN'S SUBDIVISION OF THE SOUTH 4 1/6 ACRES OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTIONS 17 TOWNSHIP 38 NORTH RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THERE OF RECORDED SEPTEMBER 27, 1874 AS DOCUMENT 192175, IN COOK COUNTY, ILLINOIS EXCEPTING THEREFROM THAT PART OPENED FOR PUBLIC RIGHT OF WAY AS W. 63RD STREET BY ORDINANCE RECORDED MARCH 17, 2015 AS DOCUMENT NUMBER 1507634070; AND,

PARCEL 2B:
ALL THAT PART OF THE VACATED 12 FOOT WIDE EAST-WEST PUBLIC ALLEY NORTH OF LOTS 1 THROUGH 10 AND THE 14 FOOT WIDE NORTH-SOUTH PUBLIC ALLEY LYING BETWEEN LOTS 11 THROUGH 15 AND LOTS 16 THROUGH 20 ALL IN IN CATHLEEN E. SEEHANSEN'S SUBDIVISION OF THE SOUTH 4 1/6 ACRES OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTIONS 17 TOWNSHIP 38 NORTH RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, , ACCORDING TO THE PLAT THERE OF RECORDED SEPTEMBER 27, 1874 AS DOCUMENT 192175, VACATED BY ORDINANCE RECORDED MARCH 17, 2015 AS DOCUMENT NUMBER 1507634072, IN COOK COUNTY, ILLINOIS; AND,

PARCEL 2C:
LOTS 27 THROUGH 52, ALL INCLUSIVE, IN EHRLER & HESSERT'S SUBDIVISION OF THE NORTH 5-1/3 ACRES OF THE SOUTH 9-1/2 ACRES OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED FEBRUARY 25, 1874 AS DOCUMENT 152528, (EXCEPTING THEREFROM ALL THAT PART OF LOT 52 LYING NORTHWESTERLY OF THE SOUTHEASTERLY LINE OF WEST 63RD PARKWAY, OPENED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282) AND (EXCEPTING THAT PART OF LOTS 48 THROUGH 52 LYING NORTHWESTERLY OF THE SOUTHEASTERLY LINE OF S. PEORIA DRIVE AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282), IN COOK COUNTY, ILLINOIS; AND,

PARCEL 2D:
ALL THAT PART OF THE VACATED 16 FOOT WIDE NORTH-SOUTH PUBLIC ALLEY BETWEEN LOTS 27 THROUGH 39, AND LOTS 40 THROUGH 52, ALL INCLUSIVE IN EHRLER & HESSERT'S SUBDIVISION OF THE NORTH 5-1/3 ACRES OF THE SOUTH 9-1/2 ACRES OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED FEBRUARY 25, 1874 AS DOCUMENT 152528, VACATED BY ORDINANCE RECORDED MARCH 17, 2015 AS DOCUMENT NUMBER 1507634072, IN COOK COUNTY, ILLINOIS; AND,

PARCEL 2E:
THAT PART OF VACATED ORIGINAL S. PEORIA STREET LYING WEST OF AND ADJOINING THE WEST LINES OF LOTS 40 THROUGH 48, ALL INCLUSIVE, IN EHRLER & HESSERT'S SUBDIVISION RECORDED FEBRUARY 25, 1874 AS DOCUMENT 152528 AND WEST OF AND ADJOINING THE WEST LINES OF LOTS 11 THROUGH 15, ALL INCLUSIVE IN CATHLEEN E. SEEHANSEN'S SUBDIVISION RECORDED SEPTEMBER 27, 1874 AS DOCUMENT 192175 AND LYING EAST OF AND ADJOINING THE EAST LINE OF S. PEORIA DRIVE AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282, ALL IN THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, VACATED BY ORDINANCE RECORDED MARCH 17, 2015 AS DOCUMENT NUMBER 1507634072, IN COOK COUNTY, ILLINOIS; AND,

PARCEL 2F:
THAT PART OF VACATED ORIGINAL 62ND STREET LYING NORTH OF AND ADJOINING THE NORTH LINES OF LOT 27 AND LOT 52 AND NORTH OF AND ADJOINING THE NORTH LINE OF LOT 27 EXTENDED WEST TO THE NORTHEAST CORNER OF LOT 52, IN EHRLER & HESSERT'S SUBDIVISION RECORDED FEBRUARY 25, 1874 AS DOCUMENT 152528 AND LYING SOUTH AND ADJOINING THE SOUTH LINE OF S. PEORIA DRIVE AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282, ALL IN THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, VACATED BY ORDINANCE RECORDED MARCH 17, 2015 AS DOCUMENT NUMBER 1507634072, IN COOK COUNTY, ILLINOIS.

CDOT#17-16-14-3650

ALSO;
PARCEL 3

ALL OF VACATED 66 FOOT WIDE S. GREEN STREET LYING SOUTH OF THE SOUTH LINE OF S. PEORIA DRIVE AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282 AND NORTH OF AND ADJOINING A LINE 14 FEET NORTH OF AND PARALLEL WITH THE NORTH LINE OF W. 63RD STREET, ALL IN THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, VACATED BY ORDINANCE RECORDED MARCH 17, 2015 AS DOCUMENT NUMBER 1507634072, IN COOK COUNTY, ILLINOIS.

ALSO;
PARCEL 4

PARCEL 4D:
LOTS 9 THROUGH 13, ALL INCLUSIVE, EXCEPT THE WEST 2 FEET OF THE NORTH 4 FEET OF SAID LOT 9, ALL IN EHRLER & HESSERT'S SUBDIVISION OF THE NORTH 5-1/3 ACRES OF THE SOUTH 9-1/2 ACRES OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED FEBRUARY 25, 1874 AS DOCUMENT 152528, IN COOK COUNTY, ILLINOIS; AND,

PARCEL 4E:
LOTS 1 THROUGH 6, ALL INCLUSIVE AND LOT 7 (EXCEPT THE SOUTH 50 FEET THEREOF) IN COUNTY CLERK'S DIVISION OF BLOCK 2 IN CATHLEEN E. SEEHANSEN'S SUBDIVISION OF THE SOUTH 4 1/6 ACRES OF SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 17 TOWNSHIP 38 NORTH RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED SEPTEMBER 27, 1874 AS DOCUMENT 192175, IN COOK COUNTY, ILLINOIS AND FURTHER EXCEPTING THEREFROM THAT PART OPENED FOR PUBLIC RIGHT OF WAY AS W. 63RD STREET BY ORDINANCE RECORDED MARCH 17, 2015 AS DOCUMENT NUMBER 1507634070; AND,

PARCEL 4F:
LOT "A", IN THE CONSOLIDATION PLAT OF SUBDIVISION OF THE SOUTH 50 FEET OF LOT 7 TOGETHER WITH A 12 FOOT STRIP OF LAND DESIGNATED AS A 16 FOOT WIDE EAST-WEST PUBLIC ALLEY RESERVED BY DEED AND LYING SOUTH OF AND ADJOINING SAID LOT 7 (EXCEPT THE NORTH 16 FEET OF THE SOUTH 58 FEET OF SOUTH LOT 7 DEDICATED AS PUBLIC ALLEY) IN COUNTY CLERK'S DIVISION RECORDED SEPTEMBER 12, 1888 AS DOCUMENT 1003460 OF BLOCK 2 IN THE SUBDIVISION OF THE SOUTH 4 1/6 ACRES OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE CONSOLIDATION PLAT RECORDED MAY 23, 1947 AS DOCUMENT 14063746, IN COOK COUNTY. ILLINOIS; AND,

PARCEL 4G:
ALL THAT PART OF THE VACATED NORTH-SOUTH 16 FOOT WIDE PUBLIC ALLEY LYING BETWEEN THE LOTS 9 THROUGH 13, AND LOTS 14 THROUGH 18, ALL INCLUSIVE IN EHRLER AND HESSERT'S SUBDIVISION RECORDED SAID IN THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED FEBRUARY 25, 1874 AS DOCUMENT 152528, VACATED BY ORDINANCE RECORDED MARCH 17, 2015 AS DOCUMENT NUMBER 1507634072, IN COOK COUNTY, ILLINOIS; AND,

PARCEL 4H:
ALL THAT PART OF THE VACATED NORTH-SOUTH 14 FOOT WIDE PUBLIC ALLEY LYING WEST OF LOTS 1 THROUGH 3, ALL INCLUSIVE AND EAST OF LOTS 5 AND 7 IN COUNTY CLERK'S DIVISION RECORDED SEPTEMBER 12, 1888 AS DOCUMENT 1003460 OF BLOCK 2 IN CATHLEEN E. SEEHANSEN'S SUBDIVISION RECORDED SEPTEMBER 27, 1874 AS DOCUMENT 192175 AND EAST OF LOT A IN CONSOLIDATION PLAT RECORDED MAY 23, 1947 AS DOCUMENT 14063746 IN THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, VACATED BY ORDINANCE RECORDED MARCH 17, 2015 AS DOCUMENT NUMBER 1507634072, IN COOK COUNTY, ILLINOIS; AND,

PARCEL 4I:
ALL THAT PART OF THE VACATED NORTH 16 FEET OF THE SOUTH 50 FEET OF SOUTH LOT 7 IN COUNTY CLERK'S DIVISION RECORDED SEPTEMBER 12, 1888 AS DOCUMENT 1003460 OF BLOCK 2 IN CATHLEEN E. SEEHANSEN'S SUBDIVISION RECORDED SEPTEMBER 27, 1874 AS DOCUMENT 192175 DEDICATED AS AN EAST-WEST 16 FOOT WIDE PUBLIC ALLEY IN CONSOLIDATION PLAT RECORDED MAY 23, 1947 AS DOCUMENT 14063746 IN THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN IN COOK COUNTY, ILLINOIS AND FURTHER EXCEPTING THEREFROM THAT PART OPENED FOR PUBLIC RIGHT OF WAY AS W. 63RD STREET BY ORDINANCE RECORDED MARCH 17, 2015 AS DOCUMENT NUMBER 1507634072, ILLINOIS; AND,

PARCEL 4J:
THAT PART OF LOTS 14 THROUGH 19, ALL INCLUSIVE IN EHRLER & HESSERT'S SUBDIVISION OF THE NORTH 5-1/3 ACRES OF THE SOUTH 9-1/2 ACRES OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED FEBRUARY 25, 1874 AS DOCUMENT 152528, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWEST CORNER OF SAID LOT 14; THENCE NORTH 01 DEGREES 31 MINUTES 47 SECONDS WEST, ALONG THE WEST LINE OF SAID LOTS, 146.90 FEET; THENCE NORTH 88 DEGREES 28 MINUTES 42 SECONDS EAST, 112.92 FEET TO A POINT ON A LINE 9.00 FEET WEST OF AND PARALLEL WITH THE EAST LINE OF SAID LOTS 18 AND 19; THENCE SOUTH 01 DEGREES 33 MINUTES 14 SECONDS EAST, 25.87 FEET TO THE WESTERLY EXTENSION OF THE NORTH LINE OF A VACATED NORTH-SOUTH 16 FOOT WIDE PUBLIC ALLEY LYING WEST OF LOTS 9 THROUGH 13 IN SAID EHRLER & HESSERT'S SUBDIVISION; THENCE NORTH 88 DEGREES 28 MINUTES 08 SECONDS EAST, 9.00 FEET TO A POINT ON THE EAST LINE OF LOTS 14 THROUGH 19 IN SAID EHRLER & HESSERT'S SUBDIVISION, ALSO BEING THE WEST LINE OF A NORTH-SOUTH 16-FOOT WIDE PUBLIC ALLEY; THENCE SOUTH 01 DEGREES 31 MINUTES 47 SECONDS EAST, ALONG SAID LAST DESCRIBED LINE, 120.98 FEET TO THE SOUTHWEST CORNER OF SAID LOT 14; THENCE SOUTH 88 DEGREES 28 MINUTES 05 SECONDS WEST, ALONG THE SOUTH LINE OF SAID LOT 14, A DISTANCE OF 121.98 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.

ALSO;
PARCEL 5

PARCEL 5A:
THAT PART OF LOTS 7 AND 8 IN CROCKER'S SUBDIVISION OF THE EAST PART OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 17 TOWNSHIP 38 NORTH RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN ACCORDING TO THE PLAT THEREOF RECORDED AUGUST 5, 1856 AS DOCUMENT 74312, LYING SOUTH OF THE SOUTH LINE OF W. 63RD PARKWAY AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282, AND LYING NORTH OF THE NORTH LINE OF S. PEORIA DRIVE AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282, IN COOK COUNTY, ILLINOIS; AND,

PARCEL 5B:
THAT PART OF VACATED S. GREEN STREET BETWEEN AND/ OR PART OF SAID LOTS 7 AND 8 AND THAT PART OF THE VACATED 16 FOOT WIDE NORTH-SOUTH PUBLIC ALLEY WITHIN LOTS 7 AND 8, IN CROCKER 'S SUBDIVISION OF THE EAST PART OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 17 TOWNSHIP 38 NORTH RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED AUGUST 5, 1856 AS DOCUMENT 74312, LYING SOUTH OF THE SOUTH LINE OF W. 63RD PARKWAY AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282, AND LYING NORTH OF THE NORTH LINE OF S. PEORIA DRIVE AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282, ALL HAVING BEEN VACATED BY ORDINANCE RECORDED MARCH 17, 2015 AS DOCUMENT NUMBER 1507634072,IN COOK COUNTY, ILLINOIS; AND,

PARCEL 5C:
THAT PART OF VACATED W. 62ND STREET LYING SOUTH OF THE SOUTH LINE OF LOT 7 IN CROCKER'S SUBDIVISION ACCORDING TO THE PLAT THEREOF RECORDED AUGUST 5, 1856 AS DOCUMENT 74312 AND NORTH OF THE NORTH LINE OF S. PEORIA DRIVE AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282, IN THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, AND VACATED BY ORDINANCE RECORDED MARCH 17, 2015 AS DOCUMENT NUMBER 1507634072, MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT INTERSECTION OF THE NORTH LINE OF SAID S. PEORIA DRIVE AND THE SOUTH LINE OF W. 63RD PARKWAY AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282; THENCE NORTH 38 DEGREES 28 MINUTES 19 SECONDS EAST, ALONG THE SOUTH LINE OF SAID W. 63RD PARKWAY, 60.87 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING NORTH 38 DEGREES 28 MINUTES 19 SECONDS EAST, ALONG SAID SOUTH LINE, 7.93 FEET TO A POINT ON THE NORTH LINE OF W. 62ND STREET, SAID POINT ALSO BEING ON THE SOUTH LINE OF SAID LOT 7; THENCE NORTH 88 DEGREES 28 MINUTES 23 SECONDS EAST, ALONG SAID LAST DESCRIBED LINE, 54.40 FEET TO A POINT ON THE WEST LINE OF THE 16 FOOT WIDE NORTH-SOUTH PUBLIC ALLEY WITHIN SAID LOT 7; THENCE NORTH 88 DEGREES 23 SECONDS EAST, 16.00 FEET TO A POINT ON THE EAST LINE OF THE 16 FOOT WIDE NORTH-SOUTH PUBLIC ALLEY WITHIN SAID LOT 7, SAID POINT ALSO BEING ON THE SOUTH LINE OF SAID LOT 7; THENCE NORTH 88 DEGREES 28 MINUTES 23 SECONDS EAST, ALONG THE SOUTH LINE OF SAID LOT 7, A DISTANCE OF 122.12 FEET TO A POINT ON THE WEST LINE OF S. GREEN STREET; THENCE NORTH 88 DEGREES 28 MINUTES 23 SECONDS EAST, 66.00 FEET TO A POINT ON THE EAST LINE OF S. GREEN STREET, SAID POINT ALSO BEING ON THE SOUTH LINE OF SAID LOT 8; THENCE NORTH 88 DEGREES 28 MINUTES 23 SECONDS EAST, ALONG SAID SOUTH LINE, 108.24 FEET TO A POINT ON THE NORTHERLY LINE OF SAID S. PEORIA DRIVE; THENCE WESTERLY ALONG SAID NORTHERLY LINE, BEING THE ARC OF A NON-TANGENT CIRCLE TO THE RIGHT, HAVING A RADIUS OF 249.51 FEET AND WHOSE CHORD BEARS SOUTH 80 DEGREES 31 MINUTES 53 SECONDS WEST, 69.04 FEET TO A POINT OF TANGENCY; THENCE SOUTH 88 DEGREES 29 MINUTES 00 SECONDS WEST, ALONG A NORTHERLY LINE OF SAID S. PEORIA DRIVE AND ITS WESTERLY EXTENSION, 282.24 FEET TO A POINT OF CURVATURE; THENCE WESTERLY 21.62 FEET, ALONG THE ARC OF A TANGENT CIRCLE TO THE RIGHT, HAVING A RADIUS OF 68.00 FEET AND WHOSE CHORD BEARS NORTH 82 DEGREES 24 MINUTES 33 SECONDS WEST, 21.53 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS; AND,

PARCEL 5D:

THAT PART OF VACATED S. PEORIA DRIVE ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282, IN THE SOUTHEAST QUARTER OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, AND VACATED BY ORDINANCE RECORDED MARCH 17, 2015 AS DOCUMENT NUMBER 1507634072, MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT THE INTERSECTION OF THE WEST LINE OF S. HALSTED STREET (AS WIDENED) AND A LINE 25.00 FEET NORTH AND PARALLEL WITH THE SOUTH LINE OF LOT 8 IN CROCKER'S SUBDIVISION (NOW LYING WITHIN THE RIGHT OF WAY OF S. PEORIA DRIVE); THENCE SOUTH 01 DEGREES 32 MINUTES 38 SECONDS EAST, ALONG SAID WEST LINE, 9.82 FEET; THENCE WESTERLY 95.95 FEET, ALONG THE ARC OF A NON-TANGENT CIRCLE TO THE LEFT, HAVING A RADIUS OF 553.98 FEET AND WHOSE CHORD BEARS SOUTH 81 DEGREES 43 MINUTES 04 SECONDS WEST, 95.83 FEET TO A POINT OF TANGENCY; THENCE SOUTH 76 DEGREES 45 MINUTES 22 SECONDS WEST, 40.59 FEET TO A POINT OF CURVATURE; THENCE WESTERLY 31.17 FEET ALONG THE ARC OF A NON-TANGENT CIRCLE TO THE RIGHT, HAVING A RADIUS OF 250.00 FEET AND WHOSE CHORD BEARS SOUTH 82 DEGREES 37 MINUTES 11 SECONDS WEST, 51.08 FEET TO A POINT OF TANGENCY; THENCE SOUTH 88 DEGREES 29 MINUTES 00 SECONDS WEST, 36.21 FEET TO A POINT ON THE NORTHERLY LINE OF SAID S. PEORIA DRIVE; THENCE EASTERLY AND NORTHERLY ALONG NORTHERLY AND WESTERLY LINES OF SAID S. PEORIA DRIVE FOR THE NEXT FOUR COURSES; (1) THENCE EASTERLY 82.43 FEET, ALONG THE ARC OF A TANGENT CIRCLE TO THE LEFT, HAVING A RADIUS OF 249.51 FEET AND WHOSE CHORD BEARS NORTH 79 DEGREES 01 MINUTES 08 SECONDS EAST, 82.06 FEET TO A POINT ON A NON TANGENT LINE; (2) THENCE NORTH 76 DEGREES 30 MINUTES 55 SECONDS EAST, 17.37 FEET; (3) THENCE NORTH 01 DEGREES 33 MINUTES 14 SECONDS WEST, 17.46 FEET TO A POINT ON A LINE 25.00 FEET NORTH OF AND PARALLEL WITH THE SOUTH LINE OF LOT 8 IN CROCKER'S SUBDIVISION RECORDED AUGUST 5, 1856 AS DOCUMENT 74312; (4) THENCE NORTH 88 DEGREES 28 MINUTES 23 SECONDS EAST, ALONG SAID PARALLEL LINE, 123.98 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS; AND,

PARCEL 5E:

THAT PART OF VACATED W. 63RD PARKWAY ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282, IN THE SOUTHEAST QUARTER OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, AND VACATED BY ORDINANCE RECORDED MARCH 17, 2015 AS DOCUMENT NUMBER 1507634072, MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT A POINT ON THE WEST LINE OF S. HALSTED STREET (AS WIDENED), 121.77 FEET NORTH OF THE NORTH LINE OF W. 62ND STREET (NOW WITHIN THE RIGHT OF WAY OF S. PEORIA DRIVE); THENCE WESTERLY AND SOUTHWESTERLY ALONG EASTERLY AND SOUTHEASTERLY LINE OF SAID W. 63RD PARKWAY FOR THE NEXT FOUR COURSES; (1) THENCE NORTH 46 DEGREES 34 MINUTES 29 SECONDS WEST, 14.13 FEET; (2)THENCE SOUTH 88 DEGREES 23 MINUTES 40 SECONDS WEST, 285.88 FEET TO A POINT OF CURVATURE; (3) THENCE SOUTHWESTERLY 213.96 FEET, ALONG THE ARC OF A TANGENT CIRCLE TO THE LEFT, HAVING A RADIUS OF 245.56 FEET AND WHOSE CHORD BEARS SOUTH 63 DEGREES 25 MINUTES 59 SECONDS WEST, 207.25 FEET TO A POINT OF TANGENCY; (4) THENCE SOUTH 38 DEGREES 28 MINUTES 19 SECONDS WEST, 64.90 FEET; THENCE NORTHWESTERLY 25.84 FEET, ALONG THE ARC OF A NON-TANGENT CIRCLE TO THE RIGHT, HAVING A RADIUS OF 68.00 FEET AND WHOSE CHORD BEARS NORTH 62 DEGREES 24 MINUTES 54 SECONDS WEST, 25.69 FEET TO A POINT OF TANGENCY; THENCE NORTH 51 DEGREES 31 MINUTES 41 SECONDS WEST, 18.78 FEET TO A POINT ON A LINE 44.00 FEET NORTHWESTERLY OF AND PARALLEL WITH THE SOUTHEASTERLY RIGHT OF WAY LINE OF SAID W. 63RD PARKWAY; THENCE NORTH 38 DEGREES 28 MINUTES 19 SECONDS EAST, ALONG SAID PARALLEL LINE, 69.75 FEET TO A POINT OF CURVATURE; THENCE NORTHEASTERLY 252.30 FEET, ALONG THE ARC OF A TANGENT CIRCLE TO THE RIGHT, BEING 44.00 FEET NORTHERLY OF AND CONCENTRIC WITH THE SOUTHEASTERLY LINE OF SAID W. 63RD PARKWAY, HAVING A RADIUS OF 289.56 FEET AND WHOSE CHORD BEARS NORTH 63 DEGREES 25 MINUTES 59 SECONDS EAST, 244.39 FEET TO A POINT OF TANGENCY; THENCE NORTH 88 DEGREES 23 MINUTES 40 SECONDS EAST, ALONG A LINE 44.00 FEET NORTH OF AND PARALLEL WITH THE SOUTH LINE OF SAID W. 63RD PARKWAY, 283.43 FEET; THENCE SOUTH 46 DEGREES 34 MINUTES 29 SECONDS EAST, 17.67 FEET TO A POINT ON THE WEST LINE OF S. HALSTED STREET (AS WIDENED); THENCE SOUTH 01 DEGREES 32 MINUTES 38 SECONDS EAST, ALONG SAID WEST LINE, 41.50 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.

ALSO;
PARCEL 6

THAT PART OF VACATED W. 63RD PARKWAY ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282, IN THE SOUTHEAST QUARTER OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, AND VACATED BY ORDINANCE RECORDED MARCH 17, 2015 AS DOCUMENT NUMBER 1507634072, MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT INTERSECTION OF THE NORTH LINE OF SAID S. PEORIA DRIVE AND THE SOUTH LINE OF W. 63RD PARKWAY AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282; THENCE SOUTH 38 DEGREES 28 MINUTES 19 SECONDS WEST, ALONG SAID SOUTH LINE OF SAID W. 63RD PARKWAY, 101.56 FEET TO A POINT ON THE NORTHWESTERLY LINE OF S. PEORIA DRIVE AS OPENED BY DOCUMENT 20841282; THENCE CONTINUING SOUTH 38 DEGREES 28 MINUTES 19 SECONDS WEST, ALONG SAID SOUTH LINE OF SAID W. 63RD PARKWAY, 49.25 FEET TO A POINT ON THE EAST LINE OF BLOCK 1 IN CROCKER'S RESUBDIVISION RECORDED MARCH 31, 1869 AS DOCUMENT 5264; THENCE CONTINUING SOUTH 38 DEGREES 28 MINUTES 19 SECONDS WEST, ALONG SAID SOUTH LINE OF SAID W. 63RD PARKWAY, 193.88 FEET TO A POINT ON THE EAST LINE OF 16-FOOT WIDE NORTH-SOUTH PUBLIC ALLEY; THENCE CONTINUING SOUTH 38 DEGREES 28 MINUTES 19 SECONDS WEST, ALONG SAID SOUTH LINE OF SAID W. 63RD PARKWAY, 24.88 FEET TO A POINT ON THE WEST LINE OF 16-FOOT WIDE NORTH-SOUTH PUBLIC ALLEY; THENCE CONTINUING SOUTH 38 DEGREES 28 MINUTES 19 SECONDS WEST, ALONG SAID SOUTH LINE OF SAID W. 63RD PARKWAY, 193.88 FEET TO A POINT ON THE WEST LINE OF BLOCK 1 IN SAID CROCKER'S RESUBDIVISION; THENCE NORTH 08 DEGREES 47 MINUTES 54 SECONDS EAST, 22.65 FEET TO A POINT OF CURVATURE; THENCE NORTHEASTERLY 129.47 FEET, ALONG THE ARC OF A TANGENT CIRCLE TO THE RIGHT, HAVING A RADIUS OF 250.00 FEET AND WHOSE CHORD BEARS NORTH 23 DEGREES 38 MINUTES 06 SECONDS EAST, 128.03 FEET TO A POINT OF TANGENCY, SAID POINT BEING ON A LINE 44.00 FEET NORTHWESTERLY OF AND PARALLEL WITH THE SOUTHEASTERLY RIGHT OF WAY LINE OF SAID W. 63RD PARKWAY; THENCE NORTH 38 DEGREES 28 MINUTES 19 SECONDS EAST, 417.27 FEET; THENCE SOUTH 51 DEGREES 31 MINUTES 41 SECONDS EAST, 18.78 TO A POINT OF CURVATURE; THENCE SOUTHEASTERLY 25.42 FEET, ALONG THE ARC OF A TANGENT CIRCLE TO THE LEFT, HAVING A RADIUS OF 118.00 FEET AND WHOSE CHORD BEARS SOUTH 57 DEGREES 41 MINUTES 59 SECONDS EAST, 25.37 FEET TO A POINT ON THE SOUTH LINE OF SAID W. 63RD PARKWAY; THENCE SOUTH 38 DEGREES 28 MINUTES 19 SECONDS WEST, ALONG SAID SOUTH LINE, 8.75 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.

ALSO;
PARCEL 7

THAT PART OF VACATED S. PEORIA DRIVE ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282, IN THE SOUTHE

B. Policy Resources

B1. Design Excellence Principles

B2. Design Excellence Neighborhood Design Guidelines

B3. List of Pre-Qualified Designers

B4. Community Wealth Building model

B5. Department of Housing Multi-Family Housing Financing Overview

B6. Department of Housing Affordable Price Calculator

B7. Chicago Community Land Trust overview

B8. Illinois Green Sustainability Resources

B9. Commission on Chicago Landmarks Pre-Permit Reviews summary

B10. Commission on Chicago Landmarks Standards for Rehabilitation

DESIGN EXCELLENCE

Guiding Principles

DPD
Department of Planning
and Development

Design Excellence - VISION & GOALS

Design Excellence celebrates the City of Chicago's unique architectural and urban design legacy, while also aspiring for a higher level of design in new development. The Guiding Principles laid out here are the attempt of the Department of Planning and Development, along with key stakeholders, to define what Design Excellence means for Chicago. A central tenet in the development of these Guiding Principles is that they answer a basic question:

How do we engender a culture that values design excellence in everyday life?

The answer to this question likely lies in the built and natural environment. As such, the Guiding Principles strive for inclusivity in the design process and the breadth of project-types to which they apply. They also seek to foster innovation, promote the creation of a sense of place, seek to push the envelope of sustainability best practices and encourage collaboration and engagement with the public and other city departments and agencies.



Guiding Principles - THEMES

To achieve the goals of Design Excellence, 10 Guiding Principles have been developed, spanning five key themes aimed at a comprehensive and robust response to the impact of the city's built environment on the people of Chicago:

EQUITY - Fair treatment, targeted support, and prosperity for all citizens

INNOVATION - Creative approaches to design and problem-solving

SENSE OF PLACE - Celebrating and strengthening the culture of our communities

SUSTAINABILITY - Committing to environmental, cultural, and financial longevity

COMMUNICATION - Fostering design appreciation and responding to community needs



PRIORITIZE INCLUSIVE DESIGN PROCESSES TO FOSTER EQUITABLE DEVELOPMENT

Cities that are created by everyone, provide for everyone. As such, projects that facilitate input from nearby property owners, community stakeholders and the City early on in their design process will develop local support and form a shared vision of design excellence for all stakeholders.



THEME 1
EQUITY

REVITALIZE CHICAGO'S NEIGHBORHOODS WHILE CELEBRATING THEIR AUTHENTICITY AND SINGULARITY

If Chicago's downtown is its heart, its 77 neighborhoods are its soul. The City will be intentional in its approach to revitalizing its neighborhoods by marshaling its own resources and leveraging private development within a design excellence framework that is place-based.



THEME 1
EQUITY

LEVERAGE THE ECONOMIC BENEFITS OF GOOD DESIGN

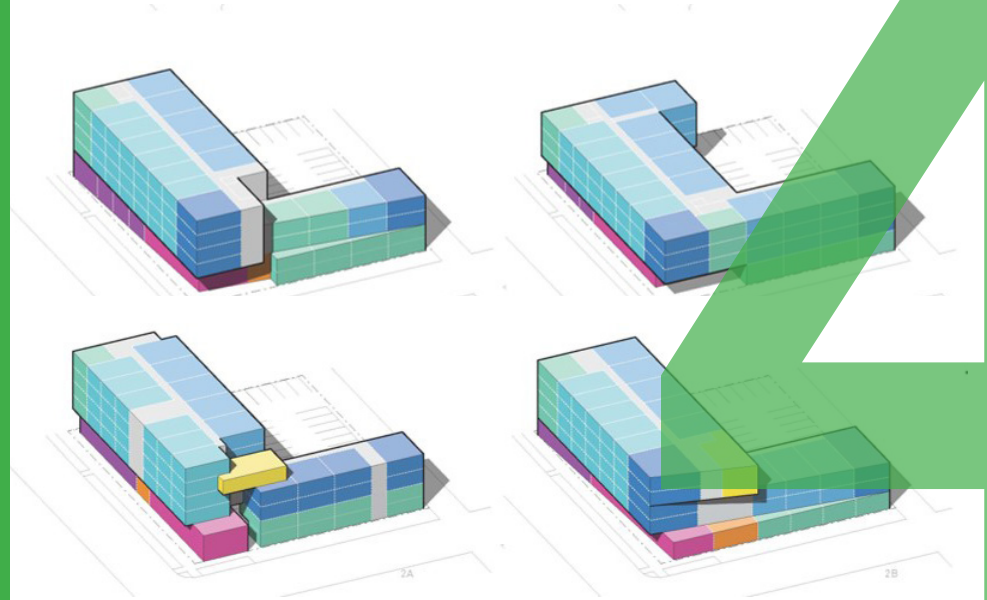
Good design has economic benefits beyond job creation. In times of limited resources, it is important to leverage every dollar invested. When development creates jobs, benefits the environment through sustainable best practices and creates places where people want to live, work and play, it benefits the entire City.



THEME 2
INNOVATION

ENCOURAGE DIVERSE DESIGN APPROACHES IN ORDER TO INSPIRE INNOVATION AND DESIGN EXCELLENCE

Chicago's architecture and urban design should reflect the dynamic nature of the city. Early collaboration with key stakeholders will yield a diversity of design approaches, which in turn will promote innovation, creativity and sustainable strategies constructed with high quality materials and state of the art construction methods.



THEME 2
INNOVATION

HONOR CHICAGO'S LEGACY OF ARCHITECTURAL INNOVATION BY PROMOTING CONTEMPORARY DESIGN

Chicago is a city with an abundance of historic building stock. The legacy of these assets is apparent throughout the city. As such, new development should seek to enrich the urban environment by respecting the authenticity of historic buildings rather than encouraging mimicry or replication of these buildings in the designs and details of new construction.



STRIVE TO ENHANCE THE PUBLIC REALM. FOCUS ON THE PEDESTRIAN EXPERIENCE

Our streets are an asset to be prioritized and curated. New development should consider its cumulative effects on sunlight, comfort and quality of the public realm by maximizing solar access for streets, parks, and public open space. DPD will advocate for a high quality public realm that creates a safe, comfortable, accessible, vibrant, and attractive pedestrian environment.



IMMERSE YOURSELF IN THE PLACES, PEOPLE AND CULTURES OF THE CITY

Responding to context appropriately, whether physical or cultural, is a critical part of design excellence. Designers are expected to understand the context that they are working in and provide responses that strengthen and reinforce the desirable urban features of the place as well as celebrate and preserve local culture.



THEME 4

SUSTAINABILITY

DEVELOP A HEALTHIER, MORE RESILIENT AND BEAUTIFUL CITY

Chicago's sustainable goals aim to construct healthier and more sustainable environments that use fewer resources, are more durable and cost effective, and promote well-being. New development is expected to seek opportunities at all phases of a project's evolution to optimize sustainability, resilience and health.



THEME 5
COMMUNICATION

COMMUNICATE THE VALUE OF DESIGN EXCELLENCE TO THE PUBLIC

Effective new tools and strategies can connect everyday Chicagoans to a better understanding of their city's architectural and urban design legacy. DPD will engage the public to make design accessible and democratic.



SUPPORT DESIGN EXCELLENCE WITH CITY DEPARTMENTS AND SISTER AGENCIES

The City has an opportunity to lead by example when it comes to design excellence. DPD will encourage the efforts of other city departments and sister agencies to integrate design excellence into their projects that impact the built and natural environment.



DPD

City of Chicago
Lori E. Lightfoot, Mayor

Design Excellence
Neighborhood Design Guidelines

Department of Planning and Development
Maurice D. Cox, Commissioner
City Hall Room 1000
121 N. LaSalle St.
Chicago, IL 60602

DRAFT September 11, 2020

Forward

The concept of "design excellence" represents the City of Chicago's commitment to a high-quality built environment that celebrates and enhances the City's unique architectural and urban design legacy. This responsibility extends from downtown and throughout local neighborhoods.

The Chicago Department of Planning and Development engaged a Design Excellence Working Group to answer the question:

How do we engender a culture that values design excellence in everyday life?

From this question, several thematic principles emerged that collectively aspire to achieve design excellence for Chicago residents, businesses, and other local stakeholders.

The principles include commitments to:

- **Equity & Inclusion**
  Achieving fair treatment, targeted support, and prosperity for all citizens
- **Innovation**
  Implementing creative approaches to design and problem-solving
- **Sense of Place**
  Celebrating and strengthening the culture of our communities
- **Sustainability**
  Committing to environmental, cultural, and financial longevity
- **Communication**
  Fostering design appreciation and responding to community needs





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Introduction

Neighborhood Design Guidelines

A COMMITMENT TO EXCELLENCE

Developed under Mayor Lori E. Lightfoot by the Department of Planning and Development (DPD), the Neighborhood Design Guidelines provide specific recommendations to enhance the planning, review, and impact of development along the city's commercial corridors.

As a complement to other City design resources and regulations, the guidelines are adaptable to the unique context of individual neighborhoods, corridors, and blocks.

The guidelines are organized across six categories:

- **Sustainability**
  Features that have long-term environmental, sociocultural, and human health impacts
- **Program**
  Targeted uses that complement a property's surrounding context
- **Site Design**
  Building orientation, layout, open space, parking, and service
- **Public Realm**
  Improvements within and near the public right-of-way adjacent to the site
- **Massing**
  Bulk, height, and form of a building
- **Façade**
  Architectural expression of a building's exterior, including entrances and windows

Other City design resources and regulations that may apply to new development projects include the Zoning Ordinance, Landscape Ordinance, and the Complete Street Guide, among others.



City of Chicago


THE CASK
• VINEGARS
TASTING ROOM
SPIRITS • WINES
Oils, Vinegars,
Wines, Spirits
& Liqueurs
SPICES

APPLICATION AND IMPLEMENTATION

The Neighborhood Design Guidelines are intended to be used for all public and private projects located along Chicago's commercial corridors. Projects that require the City's review and oversight should substantially correspond to their parameters, especially Planned Developments, Lakefront Protection Ordinance projects, and projects that receive City grants, funding, or other incentives.

In addition to facilitating formal City review processes and promoting successful project completions, the Neighborhood Design Guidelines are intended to promote design excellence, community pride, and enhancing the sense of place in local neighborhoods.

The Neighborhood Design Guidelines provide baseline guidance and reference for property owners, developers, designers, community groups, public agencies, and individuals. Construction projects must still adhere to any applicable City of Chicago, State of Illinois, or federal requirements, standards, and policies.

The Department of Planning and Development intends to gather feedback from property owners, developers, designers, and community members to continue to refine the guidelines' scope and content. Comments may be directed to DPD@cityofchicago.org.

Ultimately, the guidelines are expected to be presented to the Chicago Plan Commission for formal adoption.







Sustainability

Chicago has been a global leader in urban sustainability, which has emphasized the importance of designing and constructing healthier and more sustainable environments that use fewer resources, are more durable and efficient to maintain and operate, promote equity, and protect the environment and human health. The next generation of development must advance this continual improvement in a comprehensive and place-based way. Projects are expected to seek opportunities at all phases of development to optimize sustainability, resilience, environmental health, and human well-being. Note that these goals are addressed throughout the guidelines, not only in this section.

Sustainability

Site Selection

Choosing a site is a major factor for the sustainability and resilience of a particular development and neighborhood as a whole. It is important to provide sustainable development while also being mindful about how to do so using existing resources.

1. Consider opportunities for re-purposing existing buildings, rather than building new. This strategy often results in interesting design solutions, bolstering the neighborhood character and preserving historic structures.

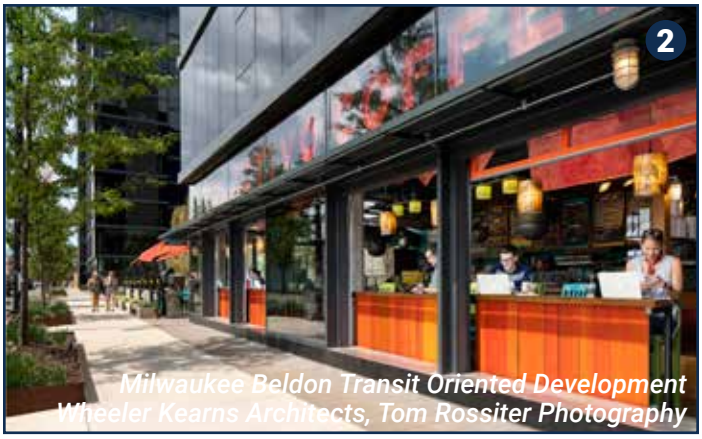
2. When new construction is necessary, prioritize infill and transit-oriented sites to promote density, urban activity, and efficient mobility.



Former Triangle Motors automobile showroom



Adaptive reuse integrates two original building facades into the new mixed use development.



Transit proximity increases density, decreases parking, and promotes walkability, vibrancy, and street activity.

Adaptability

Buildings contain considerable embodied energy accumulated through the production, transport, and installation of building materials. Demolishing and replacing a building to accommodate a new use, while an extremely popular strategy, releases this embodied energy, detracting from a neighborhood's long-term sustainability.

1. Design buildings with a flexible approach to infrastructure delivery and interior systems (e.g. furniture, ceiling systems, and partitions), allowing the building to support multiple uses and users over time. For example, parking garages should be designed with ceiling heights, level floor plates, and other elements to allow for future conversion to other uses when parking demand decreases.



High ceiling heights allowed this vault to be repurposed for a temperature controlled room for barrel aging.



Flat floors and floor-to-floor heights allowed this parking garage to be repurposed as an incubator space.

Design Expression

Sustainable design elements can be celebrated through architectural expression, landscape features, and interpretive strategies.

1. Celebrate sustainable landscape design through native plantings, stormwater features, and urban agriculture.
2. When education or public engagement are central to the development program, create opportunities to highlight sustainable development features visibly and experientially through design expression.



Sustainable landscape with adaptive, drought-tolerant plants, which reduce irrigation and manage stormwater



In addition to ecological benefits, educational garden can teach students to grow their own organic produce.



Urban agriculture activities indoors and outdoors made visible along the street

Sustainable Design

Best Practices

Chicago's Sustainable Development Policy has advanced sustainable and resilient design throughout the city. It includes a variety of categories and choices of methods to meet the requirements.

While certain projects receiving City assistance are required to comply with this policy, all projects should consider and address each of these categories at each step of the design and development process.

Please refer to the Sustainable Development Policy for guidance on each of the topics listed here.

- » Health
- » Energy
- » Stormwater
- » Landscapes
- » Green Roofs
- » Water
- » Transportation
- » Solid Waste
- » Work Force
- » Wildlife



Program

Program suggests how a community will interact with, occupy, and use space. Indoor and outdoor programming should reinforce one another to improve the day-to-day life of both residents and the wider community.

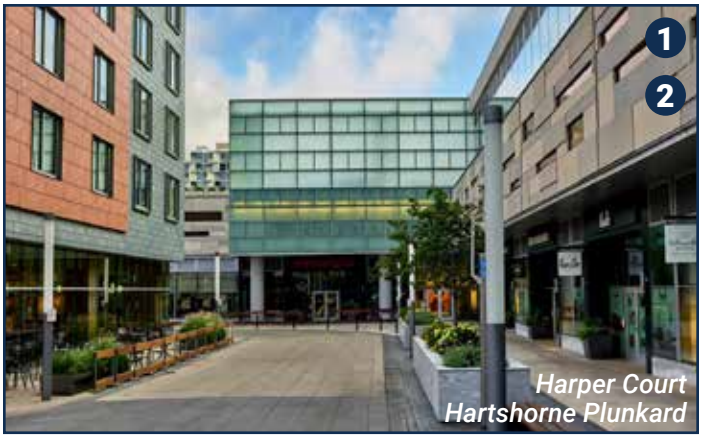
Program

Use Mix

The uses within a development should complement those on the surrounding block and neighborhood, either by clustering predominant uses or filling gaps in the existing use mix. Uses within a single building can also be mixed to further contribute to neighborhood vitality.

1. Along significant neighborhood corridors, developments should contribute to a mix of uses on the block (e.g. housing, food service, retail, community services, open space, etc.).

2. Along commercial corridors, the ground floor of buildings should contain active uses such as retail, food service, and social spaces. Providing residential space on upper floors to create mixed-use buildings is also a good way to promote an active street throughout the day and week.



A mix of commercial, hotel, and office uses brought needed neighborhood amenities as well as customers.



Active ground floor, easy resident access to upper floors, and hidden parking make complementary uses work.



Retail isn't the only way to create active uses - this library fronts the street with affordable housing above.

Context

The selection, organization, and expression of building and open space uses should contribute to the overall neighborhood program composition by promoting desirable uses and reducing the impact of undesirable uses.

1. Proposed uses should reflect and enhance existing desirable neighborhood uses and previous plan recommendations. This may include either introducing a needed use (e.g. grocery store or open space) that does not yet exist in the area or clustering like uses together (e.g. retail or food service) to bolster existing program.
2. Identify opportunities to provide spaces to support the larger community's needs and a diverse range of users. An example that would serve fledgling entrepreneurs would be to provide a small, flexible space for a "pop-up" retail, food, or events.



Adding a bar and event space created social activities and nightlife in a commercial corridor lacking those amenities.



Small, inexpensive storefronts have created new business opportunities for local entrepreneurs.



Cafe, incubator, and office space create opportunities for entrepreneurship within historically marginalized areas.



Site Design

Site design describes the organization of buildings, open space, parking, and other related site uses. Good site design respects existing site features and responds to surrounding conditions such as adjacent properties, streets, and local climate.

Site Design

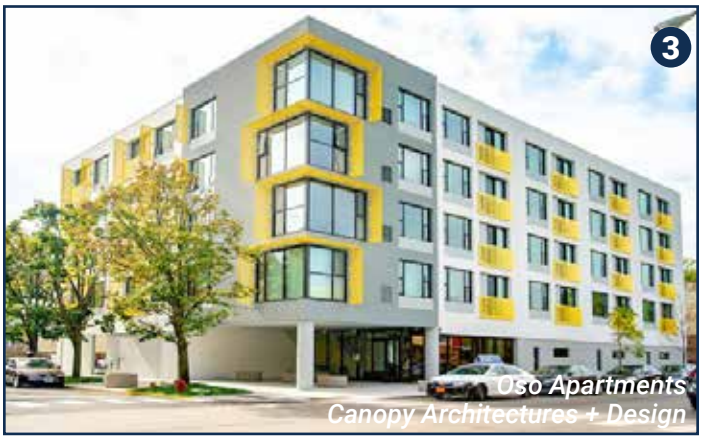
Orientation and Access

Sites should provide clear access points for various users, prioritizing pedestrian access and locating vehicular access in the rear of the site whenever possible.

1. Where possible, orient buildings so that the longest side with glazing faces south to take advantage of energy and lighting efficiency.
2. Consider adjacent land uses and views when orienting buildings. Positive views to adjacent features should be preserved while visually buffering detracting adjacent uses.
3. Primary pedestrian site access should be prioritized from the main street frontage. On corner sites, access should respond to both streets wherever possible. Public-facing uses should be accessed from major streets, while private uses (e.g. residential entries) should be accessed from side streets.
4. Pedestrian, bicycle, and vehicular conflicts should be minimized or eliminated, with vehicular site access provided via alleys whenever possible. In addition, parking and loading access should be combined to minimize driveways and allow adequate room for other site programming such as open space.
5. On large sites, encourage physical and visible porosity by breaking up development and encouraging through-site pedestrian routes.



A single-loaded corridor along the adjacent railroad shields residents from noise and provides views of the courtyard.



Setting back building entrances at corner sites address both the primary street and the side street.

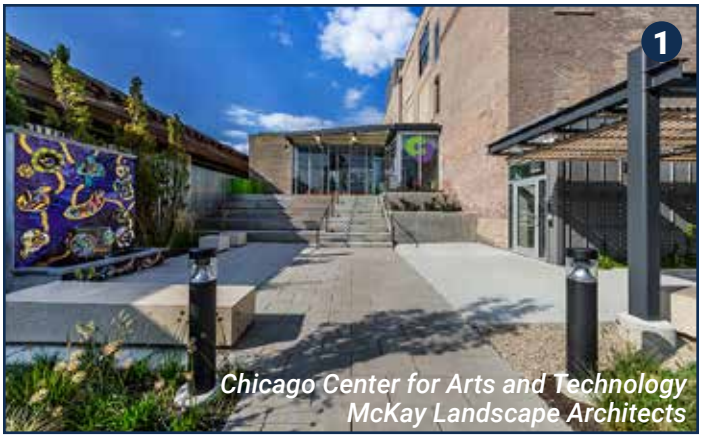


Separating pedestrian and vehicular entrances with quality planting helps demarcate space and avoid conflicts.

Open Space

Open space is critical to the enjoyment of Chicago's neighborhoods and comes in many forms - from private yards to public parks. Whether open space is public or private, it should serve its users well by providing pleasant and usable space for recreation, gathering, and outdoor enjoyment.

1. Even when not required, open spaces that are accessible and inviting to the public should be created whenever possible.
2. Open space should be located to leverage interior building uses and blend interior and exterior spaces where active ground-level program such as retail, community space, or food service can expand the indoor uses outdoors in pleasant weather.
3. Open spaces should include elements such as inviting places to sit, plantings, protection from inclement elements, access to sunlight, quality lighting, and art.
4. Provide visual buffers between on-site open spaces and adjacent incompatible land uses and/or views.



Enlarged entry plazas can be inviting both to building users and the broader public.



Well-placed open spaces take advantage of building glazing to blur the line between interior and exterior.

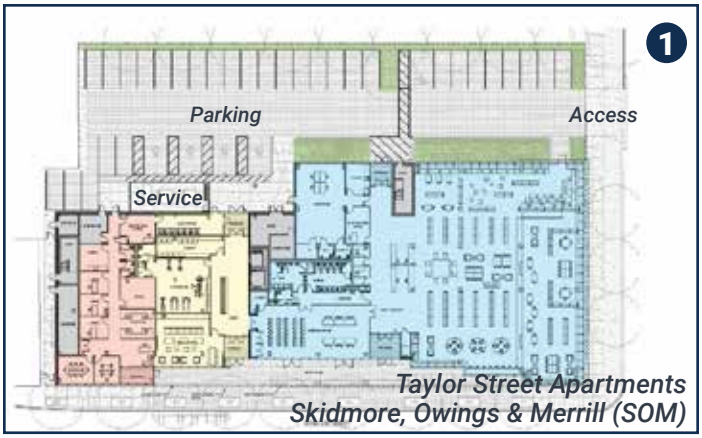


The creation of outdoor "rooms" through planting and paving design provide a variety of places to site and gather.

Parking and Service

Parking and service areas, such as utility, trash, and delivery areas, are necessary to the operations of a building and need to be thoughtfully integrated into the overall site design without detracting from programmatic spaces.

1. Parking and service (e.g. mechanical systems, trash, and loading areas) should be located at the rear of the site whenever possible and should be accessed via alleys or side streets when possible.
2. New public alleys should be provided (dedicated) on larger sites. Sites with multiple distinct buildings should centrally locate shared parking with minimal driveway entrances.
3. Structured parking and service should be screened from public view. Screening for surface parking and services should, at minimum, meet the requirements of the Landscape Ordinance. Wrapping parking and service uses with more active building uses, especially at the ground floor, is usually preferred.
4. Where concealing parking and loading with active building program is not appropriate, utilize landscape buffers and vegetative screening.



Parking and service in the rear, accessed via a side street, prevents conflicts and preserves the street wall.



Wrapping structured parking with program (e.g. offices) shields unpleasant views and expands usable space.



Multi-layered landscape buffer provides visual screening from parking and promotes a more pleasant streetscape



Public Realm

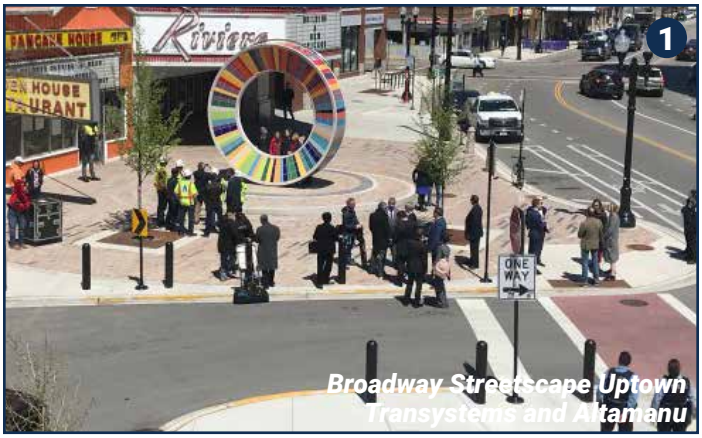
The impact of new development does not stop at the property line. Improvements to the adjacent public realm as outlined below should be addressed whenever possible with the goal of promoting safe, comfortable, functional, and vibrant neighborhoods.

Public Realm

Public Right-of-Way

Improvements to the public right-of-way may be necessary to accommodate changes in mobility needs, improve safety, and contribute to the identity of a development.

1. Any modifications to the public right-of-way must be approved by the Chicago Department of Transportation (CDOT) and should follow their guidelines and regulations. Several City resources are available to help identify strategies to improve streetscape sustainability and promote active transportation modes through the creation of complete streets.
2. Where existing sidewalks are too narrow to adequately support site uses (e.g. restaurant outdoor seating), identify ways to set the building back from the property line and expand pedestrian pavement within the site boundary, especially for projects that span a large portion of a block. Be mindful of impacts to the block's street wall in the process.
3. When designing existing or additional public realm space, consider options for activation and programming to promote vibrancy in the neighborhood.



Complete street system with generous pedestrian space, plantings, site furniture, and public art



Expanded public realm space for outdoor seating under building canopy, sheltered from the elements



Expanded public space into a parking stall (i.e. parklet) provides outdoor seating where sidewalks are narrow

Landscape

Comprehensive and well maintained landscape areas contribute to the sense of place and experience of the neighborhood. Vegetation, including trees, planting beds, and raised planters soften the hard edges of buildings and walkways while providing a cooling effect through shade and reduced solar gain. High-quality and coordinated landscape elements such as seating, lighting, and other site furnishings contribute to the sense of place and improve human comfort.

1. Plant a diverse selection of street trees within the parkway according to the Landscape Ordinance. Provide generous soil volumes for planting areas to allow for expanded root growth and improved tree health.

2. Where space allows, soften building edges with front yard plantings. Consider native plant palettes that go beyond lawns and hedges to include flowering shrubs, perennials, and groundcovers to provide multi-seasonal interest and habitat for migrating birds and pollinators.

3. Install pedestrian amenities such as seating, lighting, wind blocks, overhead canopies, and receptacles where there is high pedestrian traffic or active gathering areas. These elements should be located either within site boundaries or within the parkway and should not impede pedestrian travel.



Generous parkway plantings to promote a more pleasant pedestrian environment



Native planting design for the building's entry courtyard create a welcoming transition from the street



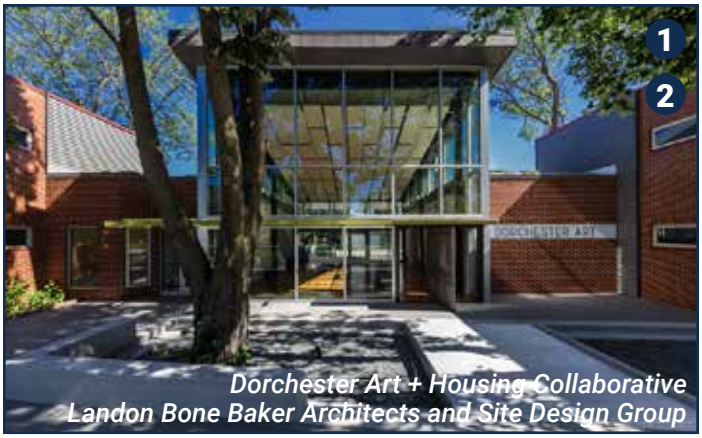
Sculptural amenities not only provide seating, but also invites people to use the elements creatively

Accessibility and Safety

Making public-facing spaces accessible to people of all abilities and identities is critical to promoting an equitable, safe, and comfortable neighborhood. In addition to accessibility requirements, include the following considerations as well.

1. Design welcoming and equitable entrances, such as integrating accessible routes artfully into main entries. Take care to use surface materials that are both accessible (e.g. navigable and durable materials, high contrast at thresholds, etc.) as well as thoughtfully woven into the overall design from the beginning.

2. Allow for an open visual field within the public realm for both safety and accessibility. Avoid posts or other physical elements within pedestrian passageways such as plazas or sidewalks. Avoid walls, panels, or dense eye-level vegetation that obstruct view from other areas of the site, street, or building.



Ramps to the accessible entrance integrated into the landscape and lead to the main entry to the building



Elimination of vertical separation at the ground plane and open, framed view along the path for ease of navigation



Accessible building entrance on the ground level with ability to connect indoor and outdoor space seamlessly

3. Protect the public realm and open spaces from sound pollution, which requires locating venting and noisy equipment away from occupied outdoor spaces.

4. In areas with high pedestrian activity and potential conflicts with program in the public realm (e.g. outdoor seating), take care to refrain from impeding pedestrian movement. Door swings and other obstacles should be avoided in the pedestrian way. Opportunities to clearly delineate the walkway may include carefully placed planters, furniture, and light fencing. Take care not to block visual access to the space.

5. Feelings of comfort and safety are unique to each neighborhood and should be considered within that specific context. Identify what types of elements are required or discouraged to promote the wellbeing of neighbors occupying and moving through the public realm.



Planter box separates pedestrians and outdoor dining to keep the narrow walkway clear



Lighting illuminates pathways, reduces dark niches, and contributes artful design to the public realm



Integrating community-driven art into the public realm demonstrates the space is cared for and watched over



Massing

Massing refers to the height, bulk, and apparent density of a building. While baseline density standards are set by the underlying zoning, the guidelines presented here serve to promote consistency with the adjacent context by reinforcing desirable urban features from the neighborhood.

Massing

Height

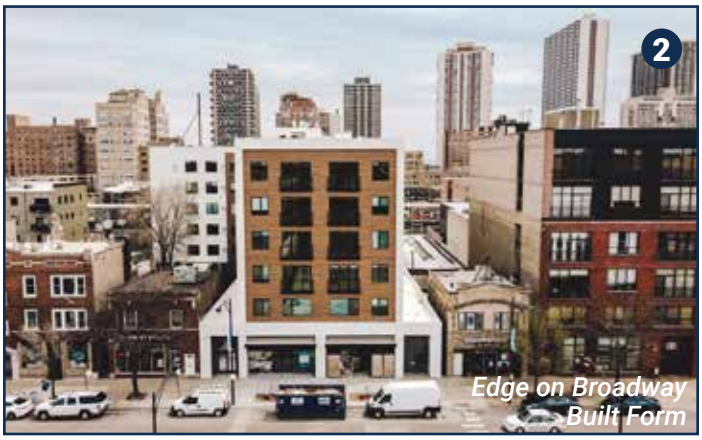
Building height is often the first concern for neighbors of new development. While zoning addresses overall height limits, the guidelines presented here provide recommendations for ensuring new development responds to surrounding conditions and existing buildings.

1. Determine street-facing building height based on adjacent and surrounding building heights to provide variety and visual interest within a unified street character.

2. Where a building is taller than surrounding developments, building height should transition by stepping down to better relate to adjacent buildings.



The hotel is massed to read as three buildings, one incorporates an historic brick face.



The tallest portion of the building transitions on each side to respond to the neighboring two story buildings.

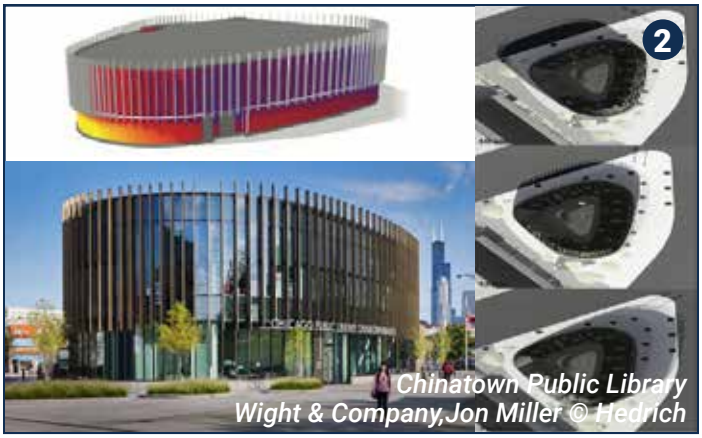


Building height varies to invite pedestrian access.

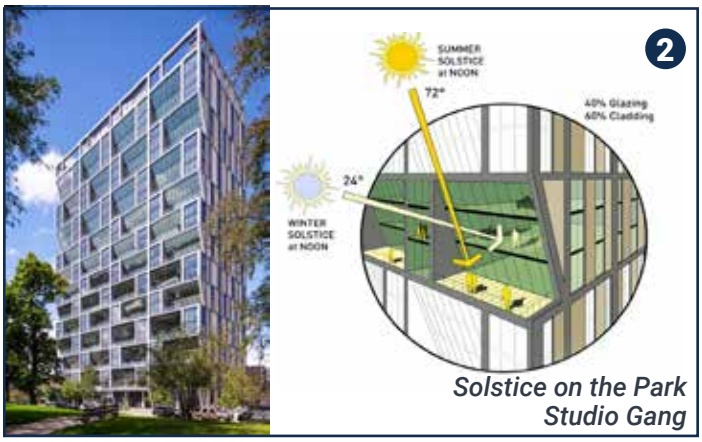
Access to Light and Air

Access to light and air are important for wellness, dignity, and energy efficiency, especially for residential and office uses. Building massing should be arranged to support maximizing light and air for building occupants and neighbors.

1. Conduct shadow studies of massing options to determine if proposed structures will create significant changes to surrounding spaces and examine alternatives if they are negatively impacted.
2. When creating massing options, investigate several variations that maximize natural light and determine if elements of these can be integrated into the final design.
3. Identify opportunities for outdoor space, including porches, balconies, and roof decks, that are designed in a way that is consistent with surrounding buildings and sensitive to the public realm, such as on top of a stepback.



Sun and Shadow Studies



Massing design maximizes sunlight throughout the year.



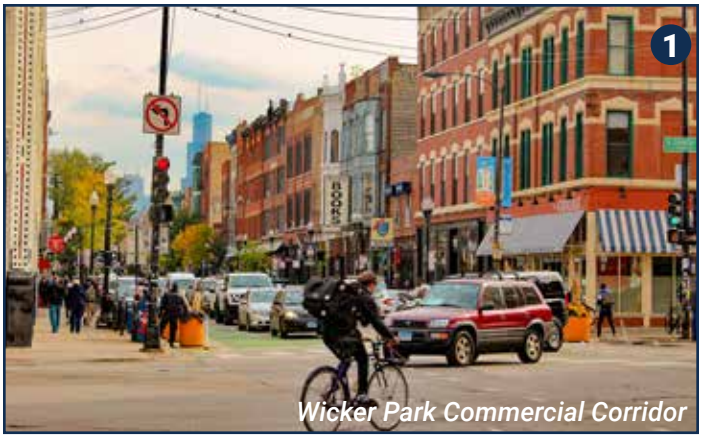
Roof deck covered lounge space for residents to enjoy away from the public realm

Street Wall

The rhythm of building faces along an urban corridor is known as the street wall. Continuity of the street wall helps to define the public realm, while large openings in the street wall caused by vacant parcels, deep site setbacks, or single-story buildings can detract from neighborhood character.

1. Where a street wall exists, its continuity must be reinforced with the new development or other active use, such as a vibrant plaza. Inactive gaps between buildings interrupt the street wall.

2. Buildings located at major intersections should reinforce the architectural definition of the corners of the block by building to the corner. Strategies for strengthening the corner can include adding an architectural feature, special façade treatment, primary building entrance, or other variation in massing.



Low first floor retail vacancy creates vibrant, walkable commercial corridors



Outdoor seating for restaurant helps maintain active uses along the street wall featuring planters and string lighting



Operable glass panels provide natural light and integrate with the brick to offer a defining feature at the corner

3 For buildings three stories and above, provide clear differentiation between the base, middle, and top of buildings to promote legibility and interest in the building's form from the street. Use this structure to promote continuity with the surrounding buildings, public realm, and open spaces at each level, with the highest degree of continuity at the base.

4 When creating buildings taller than three floors, especially if taller than surrounding buildings, set back the face of upper floors several feet behind lower floors. This encourages human-scaled design by responding to adjacent building height, street width, and pedestrian experience. Leverage these tower setbacks to optimize views and natural light.



Building mass steps back into three different tiers that are connected through the elevator shaft



Dynamic building with a pedestrian-oriented base and housing that pushes back for privacy and light



Bulk of building sets back along the lower density and traffic street for enhanced pedestrian experience



Façade

Façades are the exterior "faces" of a building. Primary façades along active streets should contribute to a vibrant streetscape, create visual interest, accentuate entrances, and reflect internal uses. Secondary façades require less visual interest but should still respect and contribute to the neighborhood character.

Façade

Windows and Doors

Building openings (i.e. windows and doors) serve as the interface between the exterior and interior of a building, creating architectural rhythm and expression.

1. Clearly identify building entrances as seen from the street using elements such as architectural details, awnings, or canopy structures.
2. Arrange window openings to promote design interest and employ strategies such as pattern, shape, color, material, and depth to reinforce the style of the building and how it responds to the surrounding context.
3. On ground floor frontages, introduce transparency and visual interest to contribute to the street's vitality. For retail, ground floor frontages should be primarily clear, non-reflective windows that allow views of indoor commercial space or product display.
4. For spaces inviting the public indoors (e.g. retail, restaurants, community uses, etc.), identify opportunities to increase permeability between the sidewalk and the indoors. This may include strategies such as doors that can stay open in nice weather and making indoor activities visible from outside.



Storefront has a well integrated awning and playful graphics along the transparent glass facade



Geometrical window details provide depth and visual interest along the street wall



Glass garage doors allow for transparency and easy access into art and community spaces

Materials

High-quality building materials promote pride of place and respond to neighborhood character. Appropriate materials balance aesthetics with functional qualities such as durability, cost-effectiveness, and sustainability.

1. All façades that are visible to the public should be treated with materials, finishes, and architectural details that are of high-quality, durable, and appropriate for use on the primary street-facing façade.



The facade utilizes glass and brick materials native to the surrounding neighborhood in a modern way



Stainless Steel in three colors are used to create a colorful,sculptural, and inviting entrance



New terra cotta rainscreen curtain wall replaced a hazardous uninsulated brick facade that was falling apart

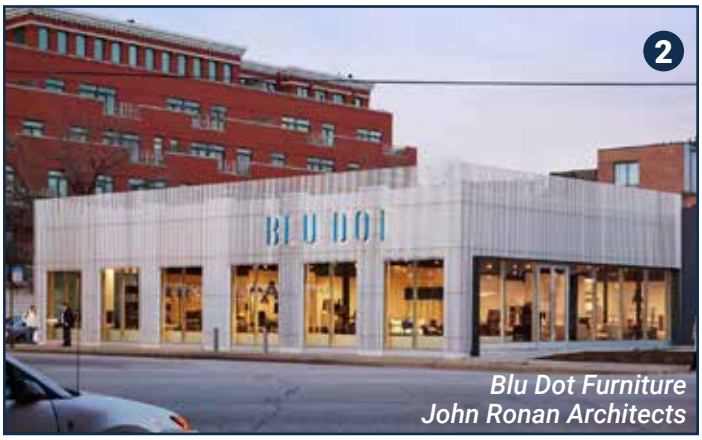
Ground Floor

Active and interesting building ground floors add vibrancy to the public realm when properly expressed through the design of a building's façade.

1. Provide street-level spaces within buildings that are designed to accommodate active uses visible to pedestrians.
2. Use transparent materials, lighting, and other design elements such as art to create human-scale visual interest, especially along sidewalks and open spaces.
3. Long façades should be broken up with vertical elements and articulation of the street wall as well as proportioned to enhance existing patterns along the street.



Welcoming atmosphere in a corner cafe across from a train stop



Custom Screen Made of Aluminum Tubing transforms a dull strip mall into a unique retail space



Undulating facade was designed to reduce glare from oncoming traffic for a better resident experience

Signage and Security

Building signage is a critical form of communication for building occupants, but care must be taken to ensure that signage is integrated into the overall building design and reflects neighborhood character.

In addition, security features should continue to serve their primary function while integrating with the overall façade design.

1. Commercial developments should avoid sign clutter, especially when it obstructs views of interior spaces and activities. Signage should be used to contribute to the neighborhood character and identity by using color, style, and architectural integration appropriate to the context.
2. Security gate and shutter visibility should be minimized, and whenever possible, be interior-mounted and integrated into the storefront design.



Mounted signage is easy to read, clean, and unobstructive to permeable retail space



Window Emblems allow for branding that does not impact transparency and light



Interior mounted collapsible security gates are a discrete way to secure retail space

Acknowledgments

DESIGN EXCELLENCE WORKING GROUP

The Department of Planning and Development wants to thank the following individuals for their guidance, support, review, and contributions to these guidelines and other Design Excellence initiatives:

- Andre Brumfield, Gensler
- Kim Dowdell, HOK
- Casey Jones, Perkins + Will
- Reed Kroloff, Illinois Institute of Technology
- Juan Moreno, JGMA
- Lynn Osmond, Chicago Architecture Center
- Emmanuel Pratt, Sweet Water Foundation
- Domenic Salpietra, HOK
- Jaime Torres Carmona, Canopy Architecture and Design
- Ann Thompson, Related Midwest
- Doug Voigt, SOM
- Ernest Wong, Site Design Group

DPD WORK GROUP

The Department of Planning and Development's internal team who produced these guidelines included:

- Eleanor Gorkski, First Deputy Commissioner
- Jim Harbin, Deputy Commissioner
- Gerardo Garcia, Design Review Lead
- Jasmine Gunn
- Katharyn Hurd
- Ethan Lassiter
- Carmen Martinez
- Luke Mich

INVEST SOUTH/WEST PRE-QUALIFIED LIST OF DESIGN SERVICES FIRMS



CHICAGO ARCHITECTURE CENTER

PRITZKER • TRAUBERT • FOUNDATION

AIA Chicago

Image: Aerial view of Chicago South Side, Bronzeville, by Kashif Ahmed



Jury Co-Chair: Lynn Osmond
President & CEO,
Chicago Architecture Center



Jury Co-Chair: Reed Kroloff
Dean & The Rowe Family College of Architecture Endowed Chair,
IIT College of Architecture



Juror: Allison Grace Williams, FAIA
Principal, AGWms_Studio



Juror: Gerardo Garcia
Design Review Lead, City of Chicago
Department of Planning and Development



Juror: Bill Williams
Principal, KMW Communities



Juror: Sara Zewde
Founding Principal, Studio Zewde



Juror: Philip Enquist, FAIA
Consulting Partner, SOM

This summer the City of Chicago invited the Chicago Architecture Center to organize an open Request for Qualifications (RFQ) to identify Chicago design firms to be considered for upcoming projects connected to Mayor Lori E. Lightfoot's INVEST South/West neighborhood improvement initiative. The massive $750 million reinvestment in the urban fabric of Chicago's South and West Side communities will focus on small- and mid-scale projects along commercial corridors and heavily trafficked intersections. The Pre-Qualified List of Design Services Firms we announce here is part of a broader initiative by the City's Department of Planning and Development to advance design excellence in all new projects across the city, from skyline-defining investments downtown to civic and commercial investments in neighborhoods and residential districts.

The following document is a resource packet for developers who may wish to respond to a series of upcoming Requests for Proposals issued under the INVEST South/West initiative. We provide here an introduction to all the Pre-Qualified design teams and their primary contact information and encourage developers to explore the work of these firms. Some are large, some are small; some are venerable, some are new. For the burgeoning designers, we encourage partnership with established firms to lend wisdom and add capacity to their efforts, and, at the same time, encourage larger firms to see the opportunity to mentor and help elevate fresh design voices. Above all, the teams assembled here share the Planning Department's abiding commitment to high-quality design.

The open-call RFQ yielded nearly 200 responses from across greater Chicago. A jury of respected design and development experts (including San Francisco-based architect and consultant Allison Grace Williams; Chicago developer Bill Williams; Chicago-based urban designer Phil Enquist; New York-based landscape architect Sara Zewde; and Planning Department Design Review Lead Gerardo Garcia) narrowed that list to the 32 you see here today. We are excited to promote this inaugural list and proud that it reflects the diversity of the city at large.

- 56% of selected teams are women-owned firms
- 63% of selected teams include a female lead designer
- 44% of selected teams are minority-owned firms
- 47% of selected teams include a lead designer of color

The depth and breadth of firms responding demonstrates the local design industry's passionate interest in strengthening our hometown, and it is sure to impel the City to refresh this list from time to time to always keep on the lookout for top talent. We hope this resource inspires developers to respond to INVEST South/West opportunities with some of the very best design talent Chicago has to offer.

Thank you,

LYNN OSMOND
President & CEO
Chicago Architecture Center
Jury Co-Chair

Thank you,

REED KROLOFF
Dean & The Rowe Family College of Architecture Endowed Chair
IIT College of Architecture
Jury Co-Chair

SELECTED LIST OF 32 LOCAL DESIGN SERVICE FIRMS AND TEAMS

BRININSTOOL + LYNCH

BROOK ARCHITECTURE

BUILT FORM

CANOPY + WOODHOUSE TINUCCI + FLOATING MUSEUM

CURIOSO + INFORM STUDIO

DAAM

DMAC ARCHITECTURE

GARRISON + BONDER + HENDERSON + WILLIAMS + HKS

INTERACTIVE DESIGN ARCHITECTS

JGMA + BEEHYYVE

KOO LLC

KRUECK + SEXTON ARCHITECTS

KWONG VON GLINOW + UB STUDIO + ROBERT BURNIER

LANDON BONE BAKER ARCHITECTS + CIVIC PROJECTS ARCHITECTURE

MIR COLLECTIVE + MKB ARCHITECTS

NORMAN KELLEY

PORT URBANISM + FUTURE FIRM + BORDERLESS STUDIO WITH DAVID BROWN

PAUL PREISSNER ARCHITECTS

VLADIMIR RADUTNY ARCHITECTS

JOHN RONAN ARCHITECTS

ROSS BARNEY ARCHITECTS

SITE DESIGN GROUP, LTD.

SKIDMORE, OWINGS & MERRILL

ADRIAN SMITH + GORDON GILL ARCHITECTURE

STUDIO DWELL + BROOKS + SCARPA

STUDIO GANG

TEAM A + WILL DUBOSE DESIGN

URBANLAB

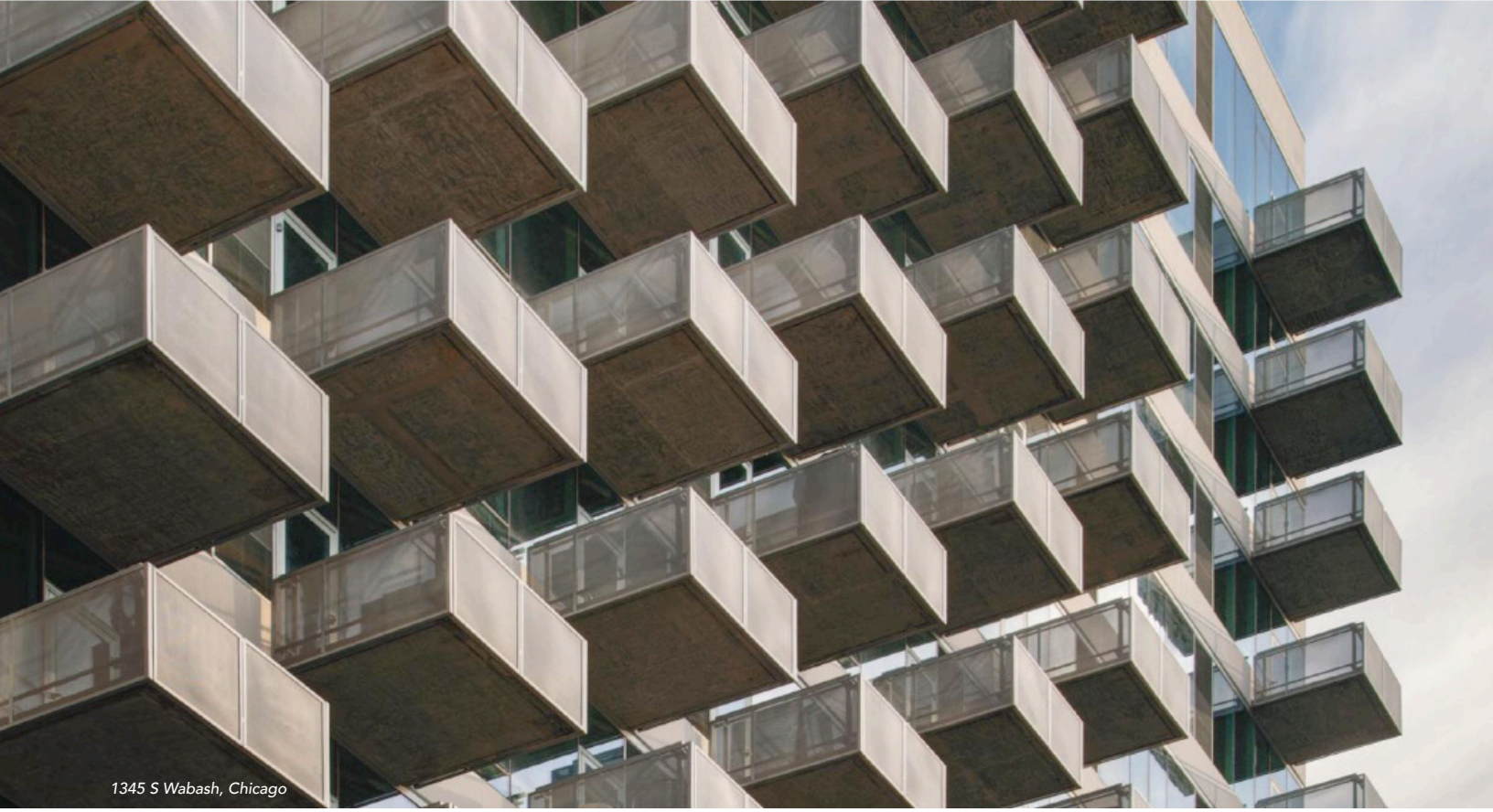
URBANWORKS

VALERIO DEWALT TRAIN + LATENT DESIGN

VIA CHICAGO ARCHITECTS + DISEÑADORES + COULD BE ARCHITECTURE + CHICAGO MOBILE MAKERS

WHEELER KEARNS ARCHITECTS

ALL PHOTOGRAPHY HAS BEEN SELECTED FROM THE RFQ SUBMISSION APPLICATIONS. UNDER THE COMPETITION RULES, ALL REPRODUCTION RIGHTS ARE RESERVED FOR PROMOTIONAL OR EDUCATIONAL USE.



1345 S Wabash, Chicago

BRININSTOOL + LYNCH

Brininstool + Lynch has been providing architectural services in Chicago for over 30 years. With award-winning projects ranging in every scale and scope, we have the ability to address nearly any conceivable project situation. We pride ourselves in finding economical and environmentally responsible solutions to complex construction problems, while not sacrificing quality or service.

Our interest in supporting the INVEST South/West initiative is seated in a deep belief that architecture can and should play a role in enriching communities across the city of Chicago. As a part of a larger mission, architects can ensure that safe, cost-effective, and durable buildings are not just a luxury, but an accessible necessity in underserved communities. Our work with local developers, skilled contractors, and community leaders has given us insights into completing ethical projects of all sizes and scales, even in the most complex situations. Much of our success has benefitted from these long-term relationships with thoughtful professionals at every step of the building process.

It is clear that the next few years will be formative for Chicago's South and West Sides, as political, social, and cultural shifts refocus efforts on realizing a more equitable future for the city's residents. We hope in our small part, we can provide the support to those that have been working tirelessly for decades across the city's underserved communities. We look to their lead and are listening to their needs as the basis for our involvement in this great task.



Jennifer Park
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CPS Central Office Relocation, Chicago

BROOK ARCHITECTURE

Brook Architecture Incorporated is a full-service architecture firm founded on the principle that diverse experiences are valuable and bring great value to a design solution. The firm name is inspired by a Langston Hughes poem, The Negro Speaks of Rivers, where the speaker, after reflecting upon the many rivers he has traversed, proclaims "my soul has grown deep like the rivers." Initially my underlying intent in starting the firm was to make opportunities for the disenfranchised to become licensed architects. Along the way, 25 years later, I have observed the profound impact the built environment has on the quality of life for the people with whom I live, work, and play, and I have dedicated my practice to transforming those environments.

One of my proudest achievements has been witnessing minority employees become licensed architects while working for me or seeing them secure their license soon after leaving Brook Architecture. I feel as though I am doing my part to diversify a profession that serves everyone but suffers from the under-representation of minorities. I believe diversity will improve the quality of our built environment.

When considering a project, we ask questions and listen; not every project is for us to do. We are selective about the projects we take and we look for projects (and clients) that allow us to utilize our expertise but also offer an opportunity to expand our knowledge base. This balanced approach allows us to carefully push the boundaries of design while confidently building upon past successes.


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Brook Architecture


Kelly Williams
AIA
Vice President
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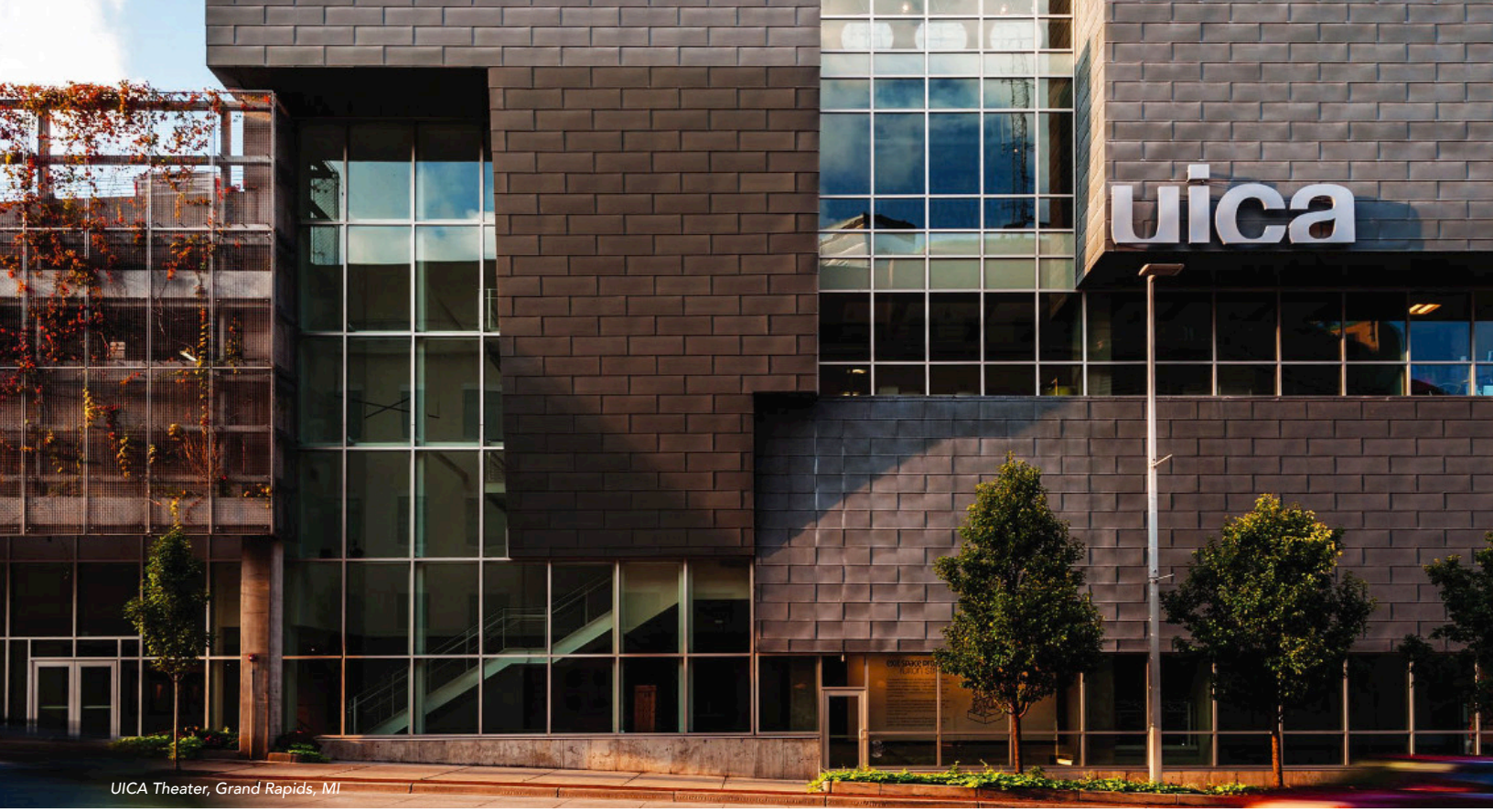

UICA Theater, Grand Rapids, MI

BUILT FORM

Built Form is a medium-sized studio based in Chicago with smaller satellite offices in North Carolina and Florida. At our scale, the principles, as well as our staff can form close working relations with our clients and consultants, ensuring a more personal investment into each project. Currently our office make-up is approximately 50% women and 25% minority staff, and as we grow our diversity will continue to reflect the city we live in. We started the firm with the Ministry Center in East Garfield Park and a multi-family project in Milwaukee. Sixteen years later we have the same balance of community-based projects in Chicago and mixed-use projects around the country.

As a licensed firm in Illinois and several other states, we pride ourselves on our technical abilities as well as our design abilities to ensure a successful project. We see the embracing of accessible design, sustainability, and the latest building technologies as the only way forward, so it's part of our office culture to embrace these aspects of architecture.

Every project has different goals to be executed within a different context, so we start with a significant amount of listening and research before determining a specific design methodology. Some projects lend themselves more to a strategy than a methodology. We look to the research to find cultural and historical references that can inform architectural metaphors. We are always aware of the physical context, but many of our projects are developed from the inside-out through sections and plans. The intent is to create spatially meaningful work that allows for creative solutions that fit within the context of their communities.



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OSO Apartments, Chicago

CANOPY + WOODHOUSE TINUCCI + FLOATING MUSEUM



Jaime Torres Carmona
AIA, LEED AP
Principal
Canopy



Andy Tinucci
AIA, LEED AP
Principal
Woodhouse Tinucci



Avery Young
Co-Director
Floating Museum

The INVEST South/West neighborhood improvement initiative is a 'once in a lifetime' opportunity that can redefine the limits on activity, integration, diversity, and inclusion in the public realm; creating new civic hubs in some of the oldest parts of our city that for too long have been ignored and underserved.

For this project, we have specifically assembled a unique, cross–disciplinary team, focused on providing the local neighbors and regional users a tailored approach and solutions that will address all needs in transformative new forms of public/private projects. From the large-scale resolution of restored public park realms to the precise details required for high-performance community centers, and from the essential need for housing and shelter to the exciting potentials for gathering, we stress design that is site- and program-driven, we promote sustainability as an everyday connection of the community to the environment, and we support the creation of a public space that harmonizes landscape and building.

We are in full support of INVEST South/West's mission and requirements. We are excited by the promise of this initiative, and we look forward to contributing to improving our city through inclusion, collaboration, and meaningful design.

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The Wheelhouse Hotel, Chicago

CURIOSO + INFORM STUDIO

At Curioso + INFORM, we design with community in mind. We know that good design puts people first. So, we listen to the stories echoing around a block or reverberating in a building. We get into the minutia, roll up our sleeves, and leap with gusto into the intensity of each project's unique ecosystem. Far from adhering to a signature aesthetic, we discover design solutions that respect and resonate with each unique circumstance.

We do this because our goal is to create experiences with the power to transform. We aim to work on projects that are as much felt in a community as they are seen. We know that good design has the ability and the potential to impact more than just those who directly engage with it. In fact, we believe it's actually quite like grassroots community building.

Curioso + INFORM have collaborated for the past two years on a 3.76 acre, $300M mixed-use development in Midtown Detroit comprising student housing, multi-family living, a public plaza, and a hotel. INFORM serves as the Master Architect and Curioso as the Interior Design studio. As a team, we make each other better. Our shared "Project to Purpose" vision means that our commitment to the work is aligned and passionate.



Nina Grondin
Managing Principal
Curioso



Daniel Pierce
Design Principal
Curioso



Michael Guthrie
Design Principal
INFORM Studio



Gina Van Tine
Managing Principal
INFORM Studio

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Rail Yard Warehouse Lofts, Green Bay, WI

DAAM

DAAM, also known as DAAM Projects, is an award-winning professional design firm founded on the principles of collaboration and cross-disciplinary practice in the areas of Design, Architecture, Art, and Making. Our mission is to advance creative thinking-and-doing in the built environment through a "hands-on" interactive approach to design. From neighborhood plans to building designs to custom joinery and details, the DAAM team is committed to providing our clients, partners, and community with innovative, resilient, and beautiful solutions to meet each project's set of unique challenges.

DAAM believes that Design, Architecture, Art, and Making are opportunities. They are a real means of creating asset value while providing essential resources to individuals, communities, neighborhoods, and cities. We believe INVEST South/West presents an occasion to elevate Chicago's South and West Side neighborhoods through these creative means. We are excited to leverage our team's collective expertise and seize these opportunities to integrate new buildings and placemaking strategies into the historically rich and architecturally dynamic sites along the selected corridors.

We believe our experience in successfully designing public, institutional, and academic buildings and social spaces for private, public, and non-profit clients positions us to actively engage with our city's South and West Side communities and translate their needs into built form. We are adept at synthesizing difficult site constraints, complex construction logistics, and contemporary project delivery methods into thoughtful pieces of architecture.



Elyse Agnello
AIA, NCARB
Principal
DAAM



Alexander Shelly
AIA, NCARB
Principal
DAAM

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Midtown Athletic Club and Hotel, Chicago

DMAC ARCHITECTURE

DMAC Architecture is a Chicago-based studio with 25 years of experience in architecture, interior design, and product design. Our staff experience spans multiple typologies and scales across commercial, hospitality, retail, and residential. In the last three years alone, we have produced over 1,000,000 square feet of commercial space. With every project, DMAC understands the audience matters; the space matters; the experience matters. We look for the stories that express our client's vision and transcend time. Our designs cater to the human experience with memorable spaces and cohesive details.

As with all of our clients, we understand working with INVEST South/West calls for research, engagement, dialogue, and partnership with all stakeholders. We understand that each neighborhood comes with its own history, challenges, and opportunities. We seek out these stories to remember, learn from, and reimagine an environment that is relevant, sustainable, and engaging.

What sets DMAC apart is our process-driven approach. We are a studio with all hands on deck. There are no departments. Our designs are rooted in their buildability. Everyone in the office spends time working on the job site, building side-by-side with contractors and learning by doing. Unlike most architectural offices, we also have a full workshop within our studio which makes it easy to mock-up and test design ideas. This ability for tactile visualization helps facilitate "what if" explorations, key discussions with clients and collaborators, and ultimately design decisions for the best results.



Dwayne MacEwen
AIA, NCARB
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DMAC Architecture



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DMAC Architecture

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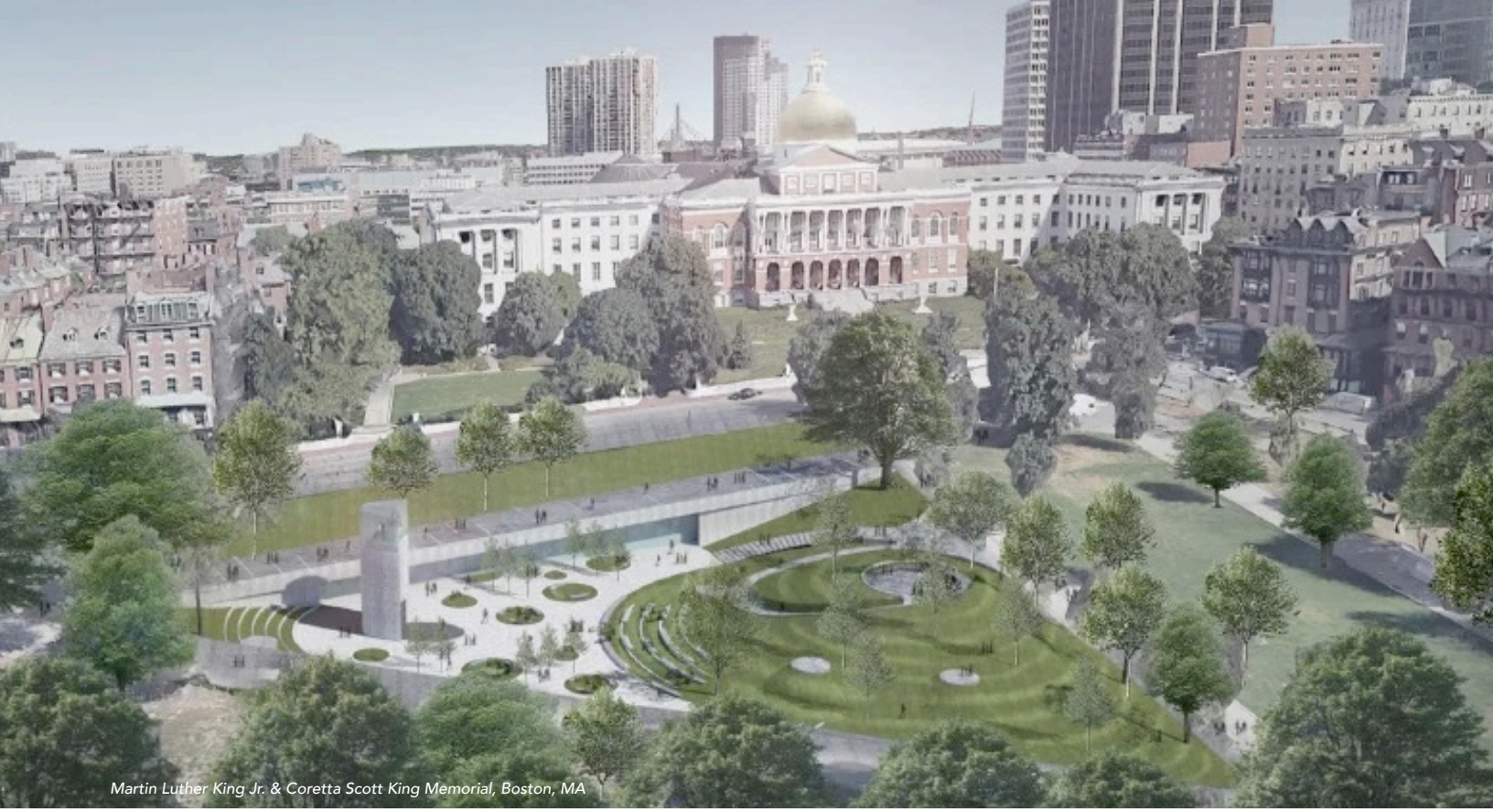

Martin Luther King Jr. & Coretta Scott King Memorial, Boston, MA

GARRISON + BONDER + HENDERSON + WILLIAMS + HKS

As architects, landscape architects, community members, and cultural agents, we design experiences that leave traces across the city. We believe our work should reveal history and memories to anchor our streetscapes and neighborhoods. In this sense, our disciplines work at the intersection of culture, history, and memory. Because design excellence comprises ethically motivated purpose and economic responsibility, we recognize that design for cities is a public and practical art.

We believe in a sustainable approach to our work and projects. Issues of sustainability are woven into our design ideas—from the level of site planning to that of the techniques of architectural systems. Throughout our work, we will connect with the communities, the organizations, and the people who live in the neighborhoods that our designs will serve. Our stakeholders are numerous, and we will be inclusive of all.

We intend to create opportunities for Chicago's citizens through our work. We will take stock of neighborhood legacies and histories to create new experiences and new collective memories. Through design excellence, we hope to ameliorate the present and assist in crafting a better future. Ultimately, we intend for our design to be rooted in community engagement and grounded in justice, equity, diversity, and inclusion.



Darrell Garrison
PLA, ASLA
President
Planning Resources



Julian Bonder
Principal
Julian Bonder + Associates



Ron Henderson
ASLA, AIA
Founding Principal
L+A Landscape Architecture



Douglas Williams
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Engine Company 16, Chicago

INTERACTIVE DESIGN ARCHITECTS



Dina Griffin, FAIA NOMA, IIDA, NCARB
President
Interactive Design Architects

Established in 1992, Interactive Design Architects (IDEA) carefully selected its name to reflect the firm's collaborative ideals and, today, our name continues to serve as the guiding principal of our work.

Years of experience has confirmed that success hinges not only on the design or building process, but on thoughtful listening and attention to the demands of a client's culture. IDEA has been fortunate to have been able to collaborate with such a wide range of institutions in creating significant enhancements to neighborhoods and communities throughout the Chicago area and beyond, from the renovation of a rectory building into accessible, multi-unit housing; to our 10-year collaboration with the Renzo Piano Building Workshop as Architect of Record for the Modern Wing at the Art Institute of Chicago; to our current work on the Obama Presidential Center as Associate Architect (with Tod Williams Billie Tsien Architects I Partners) in the Jackson Park community. We have completed over 100 significant governmental projects, including libraries, fire stations, and schools in neighborhoods across the city. IDEA provides experience with local governmental and civic bodies as well as effective leadership in coordination of complex consultant teams and stakeholder engagement. IDEA also provides key guidance and leadership on projects with issues relating to local historic preservation concerns.

Dina Griffin, President of IDEA, was born and raised on the South Side of Chicago and has a deep love for the city. Each of our Chicago projects demonstrates our conviction that even greater things can be accomplished in every neighborhood.

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Acero (UNO) Soccer Academy, Chicago

JGMA + BEEHYYVE



Juan Moreno
AIA
President
JGMA



Deon P. Lucas
Principal Architect
BEEHYYVE

JGMA profoundly believes that architecture has an innate ability to transform people and place. The focus of our work has been in Chicago's diverse communities where each of the typologies that we work on faces similar challenges of public architecture and its representational character. We proudly work in community areas that are unaccustomed to receiving architecture of quality; places where people feel forgotten; neighborhoods where neighbors feel like they are not cared for.

We believe that every design scenario is unique and that each project be approached with a solution tailored for that community. Through the amplification of culture, empowering of community members, and creating appropriate vibrancy, our design solutions aim to become beacons of the true dynamic nature of places. We intend to reflect and project the values and personalities embodied in those who will ultimately utilize these spaces daily.

When more architects and designers collaborate and add community-centered designs to their repertoire, our communities thrive. That is why JGMA and Beehyyve have declared our commitment to collaboration. Led by Deon Lucas, Beehyyve is an organization of up-and-coming architects of color who are equally committed to creating change and becoming role models to the youth and future architects of Chicago. This collaboration also aligns with our respective core missions of creating a black and brown coalition that unites disparate communities of color into one design-focused partnership who have worked in a multitude of scales and complexities.

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Altgeld Family Resource Center, Chicago

KOO LLC



Jackie Koo
AIA, NOMA, LEED AP
Principal
Koo LLC



Dan Rappel
AIA
Principal
Koo LLC

KOO is a minority woman-owned Architecture, Interior Design, and Urban Planning firm founded by Jackie Koo in 2005. The firm's first constructed project was the 27-story the Wit Hotel at the corner of State and Lake Streets in the Loop, adjacent to the elevated train. This hospitality project popularized the hotel rooftop bar and is a project type for which KOO is well-known.

Over the past 15 years, KOO has grown into an award-winning firm that has garnered notable public-facing commissions such as the Navy Pier Hotel and the UIC Performing Arts Center. In addition to these well-known projects, KOO has had a long-term commitment to providing its services to the public sector, including the Chicago Housing Authority, Chicago Public Schools, City Colleges, and Cook County as well as various not-for-profit institutions.

KOO does not work in a particular style, but rather aims to elicit the project's identity based on the owner's vision, user's needs, analysis of the program, and research. Based on this information, the office charettes the problem and experiments with functional and aesthetic solutions. All members of the office are encouraged to participate.

In 2015, we promoted Dan Rappel, KOO's Director of Sustainable Design, to Principal. Jackie and Dan work together to provide substantial Principal level involvement on all projects and redundancy for our clients. KOO combines the flexibility and creativity of a boutique firm with the sophisticated technical, project management, and QA/QC processes of a corporate firm.

Team Contact: Jackie Koo, Principal T: 312.235.0923 E: office@kooarchitecture.com kooarchitecture.com


CME Center, Chicago

KRUECK + SEXTON ARCHITECTS

For over forty years, our firm has been fortunate to work with an inspiring array of clients, from homeowners and developers to schools and governments. In our commitment to design excellence, we have pushed the boundaries of architectural design and sought to create a legacy of visually and functionally enduring projects. Along the way we have grown, refined our process, and adapted to meet new challenges and opportunities.

While we rely on gathered knowledge and experience to get our projects built, we believe that what actually makes a good designer is not familiarity but curiosity. Six years ago, when we started work on I Grow Chicago's Peace Campus in West Englewood, we began our collaboration by surrendering our preconceptions, an admittedly painful process of unlearning, but one that allowed us to appreciate the complexities of our task and our City as we never imagined. This ethos of listening and learning pervades our firm's philosophy, and questioning assumptions allows us to discover and realize a project's hidden, transformative potential.

As we seek to expand the impact and equitability of our work throughout Chicago's West and South Sides, we recognize that one of the great prospects of this initiative lies in reciprocal education, and that our value as designers is augmented by what we might share along the way. Taking Mayor Lightfoot's vision and concerns as our own, we offer this engagement a design vision and deep experience managing a wide variety of project types, as well as insights from across our diverse body of work. We are drawn to this initiative's complexity and look forward to taking great pride in delivering inspiring yet practical and maintainable architectural solutions.



Mark Sexton, FAIA
LEED AP
Co-Managing Partner
Krueck + Sexton



Tom Jacobs
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Greenhouse Green House, Chicago

KWONG VON GLINOW + UB STUDIO + ROBERT BURNIER



Alison Von Glinow
AIA
Founding Partner
Kwong Von Glinow



Lap Chi Kwong
Founding Partner
Kwong Von Glinow



Chantelle Brewer
AIA
Founding Partner
UB Studio



Robert Burnier
Visual Artist

Kwong Von Glinow, UB Studio, and Robert Buriner are very excited to form a design team Joint Venture for the INVEST South/West initiative. We are thrilled about this opportunity.

Each of the 10 neighborhoods in the INVEST South/West initiative has its own identity and characteristics—its own unique fine grain. The charm of each neighborhood lies in its layered histories and cherished cultural treasures that are built into the grain of daily life within each community. Our team's approach to projects within these neighborhoods will begin by listening for yet unexpressed opportunities already embedded within the community fabric.

Our primary objective for the potential projects is two-fold: 1) finding an appropriate spatial solution for the community, and 2) acting as a stimulator that encourages cross-neighborhood engagement. Key to delivering a project that meets these objectives to serve the community is understanding and listening to the needs of the constituents and crafting experiences that foster a sustainable vibrant neighborhood. As such, cross-neighborhood engagement is equally important as the individual neighborhood itself as a way to create a "Chicago together."

We believe our Architect + Artist collaborative joint venture is a considerate and effective team formation for the INVEST South/West initiative. We meet the criteria that we have defined to form a joint venture partnership that will bring design excellence through a diversity of voices: (1) most importantly, a shared value of design; (2) equal and respected voices to contribute to the projects; (3) a cross-disciplinary approach between art and architecture; and (4) specialized expertise and experience to deliver high-quality projects.

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Chicago Center for Arts and Technology, Chicago

LANDON BONE BAKER ARCHITECTS + CIVIC PROJECTS ARCHITECTURE



Catherine Baker, FAIA
Principal
Landon Bone Baker Architects



Monica Chadha
AIA, LEED AP
Founder
Civic Projects

Combined with our commitment to quality design and architecture, our collaborative practice creates projects that are deeply embedded in their context and communities. The members of both Landon Bone Baker Architects and Civic Projects Architecture act as team players on the firm level, including associate architects, engineers, and technical consultants. We bring these two teams together to work on development as a whole.

A unique community-based approach distinguishes our team from others. We understand the value of working closely with City officials, neighborhood organizations, CDCs, and developers of affordable and mixed-income housing to create the best possible solutions. We respond to the specific context, program, budget, and community concerns of each project while integrating green and health initiatives through engaged participation. Our goal is to design comfortable, attractive, secure, and livable environments that help keep residents rooted in their communities. Operating under the philosophy that cities must have comprehensive, sophisticated, and progressive urban developments, we continue to develop creative and cost-conscious solutions that reflect the clients' program, site, historical issues, energy usage, and budget constraints.

We understand and deeply believe in each project's potential to catalyze community activity and strengthen local bonds. We bring this mindset to all our projects, no matter what the scale.

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The Publishing House Bed and Breakfast, Chicago

MIR COLLECTIVE + MKB ARCHITECTS

Our interest in this project is both heartfelt and directly derived from the reason we formed Mir Collective in 2017. Working together in productive leadership and collaboration roles at Studio Gang Architects over the course of 15 years has provided us with unique and invaluable experience. It also gave us the opportunity to be part of a range of project types and client relationships accompanied by the chance to define what gives us personal and professional energy in architecture. Mir Collective creates architecture that values innovation and positive public impact in the shaping of spaces and cities. Our design process embraces diverse collaboration, local knowledge, and rigorous research.

Continuing in the tradition of some of our early work toward directly contributing to community-led efforts affecting real and positive change, we emphasize local impact and community engagement in design. We are seeking ways to bring our knowledge and abilities to communities like those at the heart of INVEST South/West.

Along with our partner, MKB Architects, we will bring to this program a rigorous commitment to design excellence, an appreciation for community knowledge and voices, and the eager energy of a new voice in the Chicago design community. To augment our desire to realize world-class design projects, we will apply our years of practical experience in project management, cost management, and technical expertise to benefit our clients and their vision.



Kara Boyd
AIA
Principal
MIR Collective



Jeana Ripple
AIA, LEED AP
Principal
MIR Collective



Todd Zima
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Jack Kelley
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Notre, Chicago

NORMAN KELLEY



Carrie Norman
RA AIA
Partner
Norman Kelley



Thomas Kelley
Partner
Norman Kelley

Since beginning our architecture and design practice eight years ago from the living room of our tiny Pilsen neighborhood apartment, we have been committed to expanding Chicago's legacy of innovative architecture and design within the halls of academia as educators, as well as on the streets of our adopted city as architects. During this time, we have appreciated the fact that our city's history of architectural innovation has been lost on many of the South and West Side neighborhoods and their constituents. For example, we understand the questionable importance of Louis Sullivan or John Root to a mother living in Auburn Gresham focused on feeding her children. To that end, we believe that good architecture, when done honestly and with conviction, should belong to all.

Norman Kelley was originally founded to examine architecture's limits between two- and three-dimensions. In doing so, our work varies in scale and medium from site-specific drawings, furniture objects, to habitable interiors. And while we operate at the intersection of architectural practice and education, all of our work is highly contextual, or site sensitive. We are influenced by our surroundings. We amplify our love of Chicago with our deep knowledge of its architectural history. We believe that knowing your immediate surroundings is the best recipe for good architecture. Since our inception, our work has focused its attention on adaptive reuse within old buildings with convoluted histories.

We look forward to the opportunity of collaborating on this unparalleled initiative towards helping improve the quality of life for all Chicagoans, especially those who have been historically marginalized.

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Northcenter Town Square, Chicago

PORT URBANISM + FUTURE FIRM + BORDERLESS STUDIO WITH DAVID BROWN

PORT + Future Firm + Borderless Studio is a multidisciplinary Chicago-based collaboration, with expertise in architecture, landscape architecture, and city design. Together with designer David Brown, we represent the capacity of a large practice—paired with deep community relationships, nimble professional approaches, and the delivery of exceptional solutions to complex challenges.

Our collaboration is built on shared values which dovetail with the mission of INVEST South/West. Collectively, we prioritize design excellence—from a park bench, to a new building, to a master plan. Our approach is process-driven, focusing on inclusive collaboration and deep research, that results in unexpected approaches to complex challenges. These values come together around the ongoing effort to build a more vibrant, equitable Chicago.

Our partnership for INVEST South/West—where urban design, architecture, landscape, and community engagement will be inextricably linked—was formed to allow our team to conceptualize and develop the big, early ideas together. Past collaborations on projects across scales, as well as ongoing teaching relationships, provide an experience for joint project delivery.



Andrew Moddrell
AIA
Partner
Port Urbanism



Christopher Marcinkoski, AIA
Partner
Port Urbanism



Ann Lui
AIA
Principal
Future Firm



Craig Reschke
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The Available City

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Apartment Building Renovation, Chicago

PAUL PREISSNER ARCHITECTS



Paul Preissner
AIA
President
Paul Preissner
Architects

Paul Preissner Architects is an ideas workshop where imagination and crude experimentation are used to create unique social spaces characterized by weird juxtapositions, plain materials, and an economy of form. We have explored thoughts on the problem of housing and houses, furniture and installations, libraries, community centers, museums, schools, stores, and also some other things over 10+ years in practice. Work from the office is included in the permanent collection of the Art Institute of Chicago, has frequently been exhibited internationally, and is widely published. I participated in both the 2015 and 2017 Chicago Architecture Biennial, and am the commissioner and co-curator of the US Pavilion for the 17th International Architecture Exhibition—la Biennale di Venezia, 2021.

I began the office after having worked for nearly a decade in offices such as Peter Eisenman Architects (working on the Arizona Cardinals NFL Stadium, the Memorial to the Murdered Jews of Europe, and the City of Culture in Galicia), Woods-Zapata (serving as project architect on the renovation of Soldier Field), and Skidmore, Owings & Merrill. The studio was established to explore architecture and its practice alongside my intellectual research into the discipline which I carry out primarily at the University of Illinois at Chicago, where I am an Associate Professor with Tenure.

The office is structured as an open ideas laboratory. While the office is given overall creative direction and from myself, each person involved in a project (including the clients) are encouraged and free to participate within the full scope of the process, resulting in work which is unconventional, if sometimes only slightly. For the office, architecture can be more than bland utility, but also needn't beg for one's attention.

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2016 West Rice, Chicago

VLADIMIR RADUTNY ARCHITECTS



Vladimir Radutny
AIA, LEED AP
Principal
Vladimir Radutny



Fanny Hothan
Associate
Vladimir Radutny
Architects



Ryan Sarros
Project Architect
Vladimir Radutny
Architects

My interest in this initiative stems from having lived the majority of my life in Chicago and my utmost admiration for the city which I call home. On September 18, 1989, my family and I arrived here with four suitcases and $150 to our names. We had fled the former Soviet Union as refugees alongside hundreds of thousands of families. Like many immigrants to the United States before us and after, we were seeking a better life and greater prospects, knowing that this country was built for those who desired equal opportunities and freedoms.

Thirty-one years later, I find myself reflecting on our environment and I am saddened by the turmoil, anger, and confusion that we sense while living in this country today. A place which should allow one's dreams and hopes to come true if they work hard for it, yet falls short in providing access to those ideals. This reality is deeply rooted in Chicago's urban context, where in some neighborhoods the premise of an optimistic future has been systematically removed and the dream my family had is not equally achievable. Having seen first-hand the dire need for improvement in these areas, my team and I decided that we would like to be part of this vital initiative and to contribute in the rebirth of the South and West Sides of Chicago.

Since its inception in 2008, our Architecture + Design practice has focused on innovative design solutions that challenge the conventional interpretations of space, function, and material use. Our firm has a wide scope of experience, ranging from large-scale commercial and institutional work to intricate residential projects within and outside Chicago. Our qualifications are strengthened by our team's diverse personal and professional experiences. Together, we can use imagination and design excellence to exceed expectations and make a true difference.

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Independence Library and Apartments, Chicago

JOHN RONAN ARCHITECTS



John Ronan, FAIA
Founding Principal
John Ronan
Architects

Since its founding in 1999, John Ronan Architects has been dedicated to the pursuit of an authentic architecture rooted in time and place. We reject the vacuous formalism and subjective self-expression which characterizes much of contemporary architecture in favor of an architecture which explores character and atmosphere, and which privileges human experience over arbitrary shape making.

The firm has a studio culture and its working method is research-based and collaborative. We treat the Owner as our collaborator, rather than our "client," and strive to make each project a unique response to its special needs, resulting in a design which reflects and shapes the culture of the organization it serves. We don't repeat ideas from project to project and our work doesn't all look the same.

Our work is known for its conceptual innovation, exploration of materiality, and a rigorous attention to detail, and we have a reputation for our ability to create innovative and sophisticated architecture within strict budget constraints. Our objective is to create a transcendent piece of architecture without sacrificing functionality, and we never ask the Owner to sacrifice their needs to serve the architecture.

The firm portfolio now includes projects across a wide variety of project types and scales, from residential homes to high-rise office buildings, and competes at the highest level. In 2016, the office was named one of seven international finalists for the Obama Presidential Center, and, in 2018, named one of six international finalist firms for the UCD Future Campus project in Dublin. Despite the large scale of these projects, Founding Principal John Ronan controls the size of the firm to no more than twenty people in order to allow his intimate involvement in each project, and to ensure the compelling and memorable design response to each commission, regardless of size or type, that the firm is known for.

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Chicago Riverwalk, Chicago

ROSS BARNEY ARCHITECTS

Ross Barney Architects is an architecture, urban design, and landscape architecture studio. Established in 1981 by Carol Ross Barney, the studio enjoys a reputation of creating innovative, environmentally responsible, user-focused architecture and civic spaces. From community to campus buildings for premier academic and research institutions, to high profile urban parks and ground-breaking transit stations that connect vibrant neighborhoods, Ross Barney Architects has produced distinctive structures that have become community icons.

By operating on the principle that the design process must examine the broadest range of options to create excellence, the studio has adopted an extraordinarily collaborative and holistic approach, engaging the client, user, and community. This goes beyond aesthetics to allow a building or project to grow out of its place, history, and function.

The studio's ideas and projects have been recognized by organizations from around the world. Most recently, Fast Company named Ross Barney Architects one of the World's Most Innovative companies. With over 200 national and international awards, the studio's work has been exhibited in Chicago, New York, Washington D.C., and San Francisco. Beyond achievements and accolades, the studio's biggest asset has been an ability to deliver on the aspirations of a diverse set of clients who serve the public good.



Carol Ross Barney
FAIA, Hon. ASLA
Design Principal
Ross Barney Architects



Eric Martin
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Ross Barney Architects

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Dorchester Art and Housing Collaborative, Chicago

SITE DESIGN GROUP, LTD.



Ernest Wong
PLA, FASLA, APA
Principal in Charge
site



Hana Ishikawa
AIA, ASLA Affiliate
Design Principal
site

Founded in 1990, site design group, ltd. (*site*) is a nationally award-winning landscape architecture, urban design, and architecture firm based in Chicago, Illinois. A corporation licensed in the State of Illinois, the firm is led by four principals, Ernest Wong, Robert Sit, Bradley McCauley, and Hana Ishikawa. As landscape architects, urban designers, planners, arborists, architects, and creative thinkers, we are a staff of 30 diverse and innovative professionals. We are enlivened by our surroundings and strive to produce creative spaces that inspire, restore, and bring communities together.

site is often engaged to collaborate and coordinate efforts with architects, engineers, and other design professionals. Effective communication with the design team and client ensures successful coordination of projects from concept through construction.

As designers, creative thinkers, and engaged citizens, we understand the value of exterior environments that create a sense of place. Successful placemaking leads to the long-term care and use of these spaces by the public. At *site*, this is our goal in all we do: to create spaces that are valued and sustained by the communities they reside within in order to maintain long-term relevance and use.

Using functional systems coupled with "out of the box" strategies, we work diligently with our clients to create spaces that excite and engage users, improve the pedestrian experience, strengthen community ties, conserve and enhance the site's unique natural features, and push the boundaries of innovation and resiliency.

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Taylor Street Apartments and Little Italy Branch Library, Chicago

SKIDMORE, OWINGS & MERRILL



Adam Semel
AIA, NCARB
Managing Partner
SOM



Tiara Hughes
NOMA
Project Manager
SOM

Since our founding here 84 years ago, SOM has collaborated successfully with the City of Chicago to advance its international commercial and cultural stature and to continuously improve the quality of life of all Chicagoans. We are passionately committed to understanding and responding to the specific needs of each neighborhood in Chicago, and we are thrilled by the prospect of collaborating with a community of stakeholders on projects on the South and West Sides of our home city.

Design excellence is in our DNA, and we will bring the highest level of expertise to the projects procured through the INVEST South/West Initiative. While perhaps better known for the architecture of 35 towers that shape Chicago's world-renowned skyline, we have recently designed several projects and led studies and master plans on the South and West Sides of the city. SOM has been the City's strategic planning partner for generations, and the go-to for pro bono counseling on projects such as Amazon HQ2 and international relations to support Chicago as a global city.

In sum, we work at every scale to make Chicago better for the people who live here, including our Chicago staff, who volunteer to rapid-rehab the homes of westside and southside seniors, advocate for sustainable Building Code revisions, lead the Chicago Central Area Committee's equity-focused neighborhood thinking, and mentor disadvantaged minority high school kids in design and construction career opportunities. Since the 1933 Century of Progress World's Fair, we have worked with every Chicago mayor to realize this great city's potential, and we are dedicated to fulfilling Mayor Lightfoot's vision for the INVEST South/West Initiative to the best of our ability.

Team Contact: Adam Semel, Managing Partner T: 312.360.4179 E: adam.semel@som.com som.com



Pullman National Monument, Chicago

ADRIAN SMITH + GORDON GILL ARCHITECTURE



Adrian Smith, FAIA RIBA
Partner
Adrian Smith + Gordon Gill Architecture



Gordon Gill, FAIA OAA
Partner
Adrian Smith + Gordon Gill Architecture



Robert Forest, FAIA RIBA, OAA, LEED AP
Management Partner
Adrian Smith + Gordon Gill Architecture

Adrian Smith + Gordon Gill Architecture (AS+GG) celebrates the values, vision, and leadership of Mayor Lori E. Lightfoot and her Administration's commitment to making real change in Chicago. AS+GG is a Chicago-based, internationally recognized, award-winning architecture firm founded in 2006 by partners Adrian Smith, Gordon Gill, and Robert Forest with 80 employees based in Chicago. AS+GG is committed to Chicago and it is our home.

AS+GG is dedicated to the design of high-performance, energy-efficient, and sustainable architecture on an international scale. We approach each project, regardless of size, with an understanding that architecture has a unique power to influence civic life. We strive to create designs that aid society, advance modern technology, sustain the environment, and inspire those around us to improve our world. Our firm is dedicated to the creation of new paradigms for sustainable development.

AS+GG services include architecture, urban design, sustainability, interior design, and project management. We utilize a holistic, integrated design approach that emphasizes symbiotic relationships with the natural environment—a philosophy we term "Global Environmental Contextualism." This approach represents a fundamental change in the design process, in which "Form Follows Performance." It is predicated on the understanding that everything within the built and natural environment is connected, and that a building's design should stem from an understanding of its role within that context—locally, regionally, and globally.

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CAM Museum, Raleigh NC

STUDIO DWELL + BROOKS + SCARPA



Mark Peters
AIA
Principal
Studio Dwell
Architects



Lawrence Scarpa, FAIA
Principal
Brooks + Scarpa

This is a partnership of Chicago-based Studio Dwell and Brooks + Scarpa. The reason for our collaboration is simple. We have a history of working together, [we] like each other, and have had previous success with joint venture projects in nearby Evanston and Detroit. By working together as a team, we are collectively better in all aspects of design, budget control, project management, service to our clients, and project delivery. Principal, project leader, and Chicago native, Mark Peters, AIA has been practicing architecture in Chicago for 28 years, having founded Studio Dwell in 2004. While Studio Dwell has received numerous awards and accolades for their work, it has largely been in the area of single and multi-family residential and mixed-use projects. Partnering with Brooks + Scarpa rounds out the experience and design excellence that is required for the INVEST South/West initiative.

While Brooks + Scarpa and Studio Dwell share similar multi-family residential and mixed-use project experience, Brooks + Scarpa has deep experience and a proven track record with historic renovation, adaptive re-use, commercial, retail, and cultural projects in under-funded neighborhoods stretching back almost three decades. Together we have a long history of design excellence within under-served communities.

Last year, Studio Dwell and Brooks + Scarpa completed a project together in nearby Evanston. We are currently working together on another mixed-use project in downtown Detroit. Both firms have a long history of working with other architecture firms in creative collaborations nationally and worldwide.

Team Contact: Mark Peters, Principal T: 773.489.9200 E: mpeters@studiodwell.com studiodwell.com



Chicago River Boathouses, Chicago

STUDIO GANG

Studio Gang creates places that connect people to each other, to their communities, and to the environment. Founded in 1997 and led by Jeanne Gang, Studio Gang is an architecture and urban design practice headquartered in Chicago with offices in New York, San Francisco, and Paris.

Working as a collective of more than 120 architects, designers, and planners, we create innovative projects that bring about measurable positive change for their users, communities, and natural ecology—a mission we refer to as "actionable idealism."

We collaborate closely with our clients, engineers, and outside specialists from a wide range of fields. These collaborations help us synthesize big, creative ideas and ground them in solution-oriented problem solving. Guided by this approach, our studio has produced some of today's most compelling work; named one of Fast Company's Most Innovative Companies in 2020, 2019, and 2018, Studio Gang has been internationally honored, published, and exhibited.

Even as we have organically expanded our practice across the country and beyond, working in Chicago continues to hold a special significance and to shape our understanding of what architecture can—and must necessarily—achieve for the communities it serves. We hope that, through our participation in INVEST South/West projects, we may have the opportunity to realize transformational projects that will serve as crucial community assets and stimulate further development.



Jeanne Gang, FAIA Int. FRIBA, LEED AP
Founding Principal, Partner
Studio Gang



Juliane Wolf RA
Design Principal, Partner
Studio Gang

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By the Hand Club for Kids, Chicago

TEAM A + WILL DUBOSE DESIGN



Jason Nuttelman
AIA, LEED AP
Principal
Team A



Joe Buehler
AIA, LEED AP
Principal
Team A



Will DuBose
Design Principal
Will DuBose Design

Our team sees the INVEST South/West initiative as a truly exciting opportunity for our great city. By creating a compelling dialogue about the role of design and architecture within the diverse and culturally rich neighborhoods of Chicago, thoughtful development is possible by putting these communities first. Understanding the importance of this unprecedented community improvement initiative, TEAM A will be partnering with Will DuBose Design. Mr. DuBose grew up in the Auburn Gresham neighborhood, attended Whitney Young High School, received his architectural degree from the University of Michigan, and is leading a successful architectural practice in New York City. However, with deep ties to Chicago, Mr. DuBose has been looking for opportunities to return home.

Together, our focus is to inspire the communities of our city through transformative architecture and design. We profoundly believe that architecture has an innate ability to transform people and place. Our focus of work has been in Chicago's diverse communities where we look to challenge paradigms and project types in which the exploration of design has been forgotten. We proudly work in community areas that are unaccustomed to receiving architecture of quality; places where people feel forgotten; neighborhoods where neighbors feel like they are not cared for.

Our team of designers always tests and researches ideas for the sake of making innovative, appropriate, and unique solutions for the betterment of people's lives. We pride ourselves on employing high design principles to empower and instill all communities with a democratic sense of dignity and pride.

Team Contact: Jason Nuttelman, Principal T: 312.927.3007 E: jason@teama.com teama.com



Morgan Live + Work, Chicago

URBANLAB



Martin Felsen, FAIA
Principal
UrbanLab



Sarah Dunn
NCARB
Principal
UrbanLab

Founded in 2000 by Martin Felsen and Sarah Dunn, UrbanLab is an architecture and urban design firm headquartered in Chicago. UrbanLab's projects span scales, from large, urban designs to small, residential projects and exhibitions. Our primary interest is in forward-looking projects that speculate on a more resilient and resourceful tomorrow. UrbanLab has proven experience assembling and managing multi-faceted groups of specialists and stakeholders to bring highly complex projects to a successful conclusion.

Our office works across scales and silos of knowledge. At the largest scales, UrbanLab has worked with mayors, elected officials, and City departments to realize long-range planning and sustainability goals. For example, with the former Mayor of the City of Chicago, we collaborated on several city-wide resiliency plans to "green the streets" to save water and energy, and bring healthy food and jobs to struggling communities. Pieces of these long-range plans are being realized today in Chicago as "complete streets." UrbanLab's built work includes public spaces, mixed-use commercial and residential buildings, cultural complexes, restaurants, art galleries, housing, houses, a bridge, recreational landscapes, and large resilient infrastructural plans.

We bring invention and collaboration to each design project. We view challenges as opportunities to create memorable buildings and places that are both beautiful and surprising. We routinely assemble talented multidisciplinary teams with the highest levels of expertise and experience to realize architecture and urban design projects. Our design process is characterized by deep inquiry and collaborative exchange; design work is informed by intensive research and an experimental approach. We strive to design innovative, environmentally responsible solutions, and create spaces that establish healthy connections between people and their environments.

Team Contact: Martin Felsen, Principal T: 312.638.9100 E: felsen@urbanlab.com urbanlab.com



Galewood Elementary School, Chicago

URBANWORKS



Patricia Saldaña Natke, FAIA ALA, NCARB Design Principal UrbanWorks



Robert Natke AIA, NCARB, LEED AP BD+C Principal UrbanWorks



Maria Pellot AIA, AICP, LEED AP BD+C Associate Principal UrbanWorks

UrbanWorks is an internationally recognized Chicago architectural firm committed to producing the highest quality designs that meet complex social and environmental concerns for civic, community-based, private, and commercial sector clients. UrbanWorks approaches projects with a keen aesthetic eye and functional expertise; effectively balancing complex user programs with tight budgets, aggressive construction schedules, accessibility, and sustainability concerns to create successful projects that meet contemporary community needs.

The firm's designs span all scales, with recent projects reflecting larger and more complex programs that reflect new institutional requirements and concerns in the 21st century. Collaboration is critical to any architectural endeavor, and UrbanWorks has an outstanding track record developing and leading successful design efforts with engineers, architects, and clients.

We believe that good design should be available to all, regardless of race, gender, ethnicity, or socioeconomic level, and that the city is the primary locus for this project. We believe that architecture is directly connected to people: people define the space; people set the proportion; and architecture becomes enduring when it provides a vibrant canvas for our hopes and dreams. Ultimately, architecture is a cultural production that reflects each of the forces behind its creation, and UrbanWorks believes that it is our responsibility to capture the best of these impulses.

Team Contact: Patricia Natke, Design Principal T: 312.202.1200 E: pnatke@urbanworksarchitecture.com urbanworksarchitecture.com



Vue53, Chicago

VALERIO DEWALT TRAIN + LATENT DESIGN


Joe Valerio, FAIA
Founding Principal
Valerio Dewalt Train


Katherine Darnstadt
AIA, LEED AP
Founding Principal
Latent Design, M/WBE

Valerio Dewalt Train and Latent Design have formed a dynamic partnership delivering design excellence, innovation, and community-based participatory design. Both firms were birthed right here in Chicago and are passionate about our city's future.

We are committed to diversity and inclusion through our design process and team and have been inspired by the Chicago Department of Planning and Development's Mentor-Protege Program. We recognize the importance of nurturing emerging firms and have partnered with Latent Design, an architecture, urbanism, and interiors firm leveraging civic innovation and social impact to design more equitable spaces to live, work, and play. Latent Design and Valerio Dewalt Train believe that good design begins with research and dedication to the collaborative process. We question everything to reach an understanding between the city, client, and community.

We have a surplus of passion for building and an intrinsic curiosity for discovery. Our commitment to good design is focused on innovation, affordability, sustainability, and equity. This has been recognized by our peers in the form of dozens of awards, including national AIA honor awards and by a robust list of repeat clients, including Google, University of Chicago, Mayo Clinic, and Heartland Alliance.

Valerio Dewalt Train and Latent Design have the experience to challenge existing systems. We see our continued relationship as a collaboration of design excellence and dedicated civic engagement.

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Square Roots Urban Farming Accelerator, Michigan

VIA CHICAGO ARCHITECTS + DISEÑADORES + COULD BE ARCHITECTURE + CHICAGO MOBILE MAKERS



Cristina Gallo
AIA
President
Via Chicago Architects + Diseñadores



Marty Sandberg
AIA
Principal
Via Chicago Architects + Diseñadores



Joseph Altshuler
LEED AP
Principal
Could Be Architecture



Zack Morrison
Principal
Could Be Architecture



Maya Bird-Murphy
Founder
Chicago Mobile Makers

The collaborative of Via Chicago and Could Be Architecture offers an exciting, right-sized alternative to Chicago's "big guys" and legacy firms. Together with our programming and outreach partner Chicago Mobile Makers—a nonprofit organization that empowers Chicago youth to become advocates in their own communities—we're the right crew at the right time.

Our authentically local, hands-on team presents a radically approachable conduit for bridging the gap between Chicago's talented architects and the communities who would benefit most from their design efforts. In an era of social upheaval and professional reckoning, we bring a genuine M/WBE design firm straight to the head of the table—one led by a young Colombian immigrant with the design skills and public-private experience to captain such an effort, rather than just "ticking the box" as the minority partner for a larger, corporate firm. Our firms may be small in size, but we offer an impressive track record of navigating the technical obstacles that are inevitable with public-private development. Simply put, we get things done. Safe streets, meaningful jobs, local food—the core needs of a community must be addressed before any high-minded proposals can even be considered.

We are excited, cautiously, by the renewed attention [City of Chicago] is giving to these South and West Side corridors, and wholeheartedly agree with the tremendous potential of these streets to become renewed economic hubs for our generation and beyond. Please give our community-focused, right-size team serious consideration when you decide who should earn the City's "stamp of approval" for working with our long-overlooked South and West Side communities.

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Inspiration Kitchens, Chicago

WHEELER KEARNS ARCHITECTS

Wheeler Kearns is a collective practice of architects. We work with people who seek to enrich their lives in a space that embodies their purpose, energy, and vision. At Wheeler Kearns, each team member equally shares the roles of designer, technician, and manager. Through our weekly studio pin-ups and internal review, we make sure all of the best ideas from all staff members are being contributed to every project. This ensures we produce the highest quality work for our clients and support their unique missions.

When a space we design resonates with your deepest intentions, it has a lasting and powerful impact. We devote all our energies to understanding our client's core purpose and the transformation they seek. We want to see the challenge through their eyes. Doing this guides us to what we call the 'emotional center' of a project: the heart around which an entire project revolves. We return to that central idea as we craft concepts, help our clients make decisions, and refine our responses. Every design decision evolves from that 'emotional center.' The result is a space that responds uniquely to your mission, even as you balance aspiration with budget.

As a practice that focuses on an empathy-filled process more than a specific project type, style, or scale, our portfolio is diverse and richly varied. Our work is consistently recognized for excellence: we have received 28 Design Excellence Awards from AIA Chicago. Notably, we have twice been named by a national jury as AIA Chicago's Firm of the Year. This award honors sustained, outstanding achievement and excellence in a body of work produced by a firm over time.


Dan Wheeler, FAIA
Principal
Wheeler Kearns


Joy Meek
AIA, LEED AP
Principal
Wheeler Kearns


Chris-Annmarie Spencer
AIA, NOMA
Principal
Wheeler Kearns


Larry Kearns, FAIA
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Mark Weber
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COMMUNITY WEALTH BUILDING MODEL

One of the core areas of evaluation criteria for proposals is *Promotion of Short- and Long-term Community Wealth Building*. The City is seeking development partners who demonstrate the ability to deploy innovative models of building community wealth and equity.

As you complete your proposal, please consider how your plans will leverage community collaboration and support, empower Black and/or Latinx partners, contribute to new jobs for local residents, and build on your track record of economic development in the South and West Sides.

These efforts can take many forms, including forming partnerships with Black and/or Latinx partners as part of the financing, development, or construction of a project. In addition, there are creative models that use real estate to generate community wealth and equity. As reference, we have provided examples of the latter below:

Evergreen Cooperatives (Cleveland, OH): http://www.evgoh.com/

Evergreen Cooperatives is a non-profit holding company responsible for incubating for-profit green industry cooperatives, providing business services, and aggregating financing and land acquisition. Supported by Cleveland's Greater University Circle Initiative, it links the procurement needs of Cleveland's "eds and meds" anchor institutions to the city's needs for workforce and economic development. For example, it constructed a greenhouse to create produce and herbs and supply to local establishments. Employees are part owners, sharing in the profits of this venture.

East Portland Community Investment Trust (Portland, OR): http://investcit.com/

The East Portland Community Investment Trust (CIT) offers a long-term path to collective, communal ownership of real estate for investors starting from $10-$100 per month. It is located in a high-poverty census tract and leases 29,000 sq. ft. of commercial retail space to around 25 tenants. Investors are exclusively residents from nearby zip codes, have a no-loss guarantee, and are enrolled in general investment and financial planning classes as part of the program. 68% percent of investors are first-time, 62% are women, and 49% were born outside the US, and the financial literacy class program has graduated more than 300 students in under three years.

Chicago Department of Housing Multi-Family Housing Financing Overview

One of the Department of Housing's chief responsibilities is to work with private developers to increase the supply of affordable housing in every Chicago neighborhood through a litany of targeted programs. The DOH assists developers with multi-family financing by providing public funds and other subsidies that are necessary to pay a portion of the project-specific costs of rehabilitating or constructing affordable rental apartments within the City.

This document provides an overview of affordable housing financing programs offered by DOH as well as the Department's funding priorities. All information regarding DOH policies and procedures, application instructions, and underwriting and architectural guidelines can be found on the Department's website linked here, including, but not limited to:

- Multi-Family Funding Application Instructions
- Architectural and Technical Standards Manual
- DOH Proforma

For affordable housing developments that contemplate use of City financing, we strongly encourage you to review DOH's policies and request an intake meeting with DOH management and staff before submitting a funding application. Please use the linked intake form, found here.

Funding Sources

Financing programs currently administered by DOH include low-income housing tax credits, federal, state and local funds awarded in the form of first and second mortgage loans, city land and private activity and tax-exempt bonds.

Illinois Affordable Housing Tax Credits (IAHTC): A $0.50 State of Illinois income tax credit for every $1 that is donated to an eligible affordable housing development. DOH allocates 24.5% of the amount of credits authorized by the State. Developers apply through DOH's Multifamily Financial Assistance Application or the Stand Alone IAHTC application if only applying for IAHTCs. Successful applicants receive a conditional tax credit reservation letter based on the amount of the donation and determination that the undertaking is compatible with the goals of the Department.

Low Income Housing Tax Credit Program (LIHTC): A federal tax credit issued via a competitive funding round in accordance with DOH's LIHTC Qualified Allocation Plan (QAP). The QAP is published biennially to help direct federal affordable housing resources to where it is most needed. Applicants fill out DOH's Multifamily Financial Assistance application for the credits upon the release of the QAP and announcement by DOH that applications are being accepted for the LIHTC funding round.

Community Development Block Grant (CDBG): Funds assist both non-profit and for-profit developers in rehabilitating and developing affordable rental housing. 51% of all units within the project must be occupied by low-and moderate-income households unless the project meets a specific exception to

reduce the cost of construction. The annual City of Chicago Action Plan, administered by the Office of Budget and Management and approved by the U.S. Department of Housing and Urban Development, determines the annual Multi-Family Loan Program allocation.

HOME Investment Partnerships Program (HOME): Funds support loans for construction of affordable multi-family housing. HOME allows assistance to be targeted toward particular units. Projects assisted with HOME target very low-income households. The annual City of Chicago Action Plan, administered by the Office of Budget and Management and approved by the U.S. Department of Housing and Urban Development, determines the annual Multi-Family Loan Program allocation.

Tax Increment Financing (TIF): Funds collected from Tax Increment Financing districts provide grants to developers. Developers applying for TIF assistance are required to submit a supplemental TIF application that identifies the TIF district, Parcel Index Numbers, demonstrates need, budget of TIF eligible expenses, performance measures and increment projections.

Affordable Housing Opportunity Fund (AHOF): Funds collected from Density Bonus and ARO in-lieu donations are administered by DOH. Fifty percent of each contribution is utilized for the construction or rehabilitation of affordable units and subject to the appropriation by the City Council.

Multi-family Mortgage Revenue Bonds: Provides bond financing, through the City's tax-exempt bonding authority, for developers who build or rehabilitate large housing developments for low- and moderate-income renters and generates private equity investment.

Funding Priorities

In addition to meeting DOH policies and underwriting guidelines, DOH evaluates requests for City financing based on the compatibility of the request with departmental funding goals and priorities. The department's funding goals and priorities are classified in the Qualified Allocation Plan (QAP) under three Priority Tracts: Opportunity Areas, Redevelopment Areas, and Transitioning Areas. The Priority Tracts are subject to evolve or shift at the release of the biennial QAP. Summary descriptions of the conditions associated with each Priority Tract under the current QAP follow.

I. Opportunity Areas
   Priority will be given to projects which provide housing units in high income/high cost, opportunity areas and contemplates the preservation of existing housing stock through rehabilitation and adaptive reuse. Additional consideration will be given for projects that include very low-income units, housing units for tenant populations with special housing needs, including accessible units, SRO units, permanent supportive housing, reentry housing and units for Homeless individuals and/or families.

II. Redevelopment Areas
   Priority will be given to projects in existing Redevelopment Areas, which "contribute to a concerted community revitalization plan". Preferably these projects will be developed to include a mix of uses providing housing as well as first floor retail/commercial to address needed

neighborhood amenities. Additional consideration will be given to projects that promote income diversity with units accessible to a range of household incomes, from 0-30% AMI up to and including market rate units.

III. Transitioning Areas

Priority will be given to projects located in areas undergoing rapid economic and demographic change, and the resulting loss of affordable housing units stock. Preferably these projects will include units that are obligated to serve qualified tenants for the longest periods beyond the minimum requirement as stipulated by the funding source. Additional consideration will be given for projects that include very low-income units, housing units for tenant populations with special housing needs, including accessible units, SRO units, permanent supportive housing, reentry housing and units for Homeless individuals and/or families.

TABLE OF INCOME LIMITS
Effective April 1, 2020

Household Size	10% Area Median Income	15% Area Median Income	20% Area Median Income	30% Area Median Income	Extremely Low Income Limit	40% Area Median Income	Very Low Income Limit (50% Area Median Income)	60% Area Median Income	65% Area Median Income	Low Income Limit (80% Area Median Income)	90% Area Median Income	95% Area Median Income	100% Area Median Income	115% Area Median Income	120% Area Median Income	140% Area Median Income	150% Area Median Income
1 person	$6,370	$9,555	$12,740	$19,150	$19,150	$25,480	$31,850	$38,220	$41,405	$51,000	$57,330	$60,515	$63,700	$73,255	$76,440	$89,180	$95,550
2 persons	$7,280	$10,920	$14,560	$21,850	$21,850	$29,120	$36,400	$43,680	$47,320	$58,250	$65,520	$69,160	$72,800	$83,720	$87,360	$101,920	$109,200
3 persons	$8,190	$12,285	$16,380	$24,600	$24,600	$32,760	$40,950	$49,140	$53,235	$65,550	$73,710	$77,805	$81,900	$94,185	$98,280	$114,660	$122,850
4 persons	$9,100	$13,650	$18,200	$27,300	$27,300	$36,400	$45,500	$54,600	$59,150	$72,800	$81,900	$86,450	$91,000	$104,650	$109,200	$127,400	$136,500
5 persons	$9,830	$14,745	$19,660	$29,500	$30,680	$39,320	$49,150	$58,980	$63,895	$78,650	$88,470	$93,385	$98,300	$113,045	$117,960	$137,620	$147,450
6 persons	$10,560	$15,840	$21,120	$31,700	$35,160	$42,240	$52,800	$63,360	$68,640	$84,450	$95,040	$100,320	$105,600	$121,440	$126,720	$147,840	$158,400
7 persons	$11,290	$16,935	$22,580	$33,900	$39,640	$45,160	$56,450	$67,740	$73,385	$90,300	$101,610	$107,255	$112,900	$129,835	$135,480	$158,060	$169,350
8 persons	$12,020	$18,030	$24,040	$36,050	$44,120	$48,080	$60,100	$72,120	$78,130	$96,100	$108,180	$114,190	$120,200	$138,230	$144,240	$168,280	$180,300
9 persons	$12,740	$19,110	$25,480	$38,220	$48,600	$50,960	$63,700	$76,440	$82,810	$101,950	$114,660	$121,030	$127,400	$146,510	$152,880	$178,360	$191,100
10 persons	$13,470	$20,205	$26,940	$40,404	$53,080	$53,880	$67,350	$80,820	$87,555	$107,750	$121,230	$127,965	$134,700	$154,905	$161,640	$188,580	$202,050

NOTES:
- Income limits are for the Chicago-Naperville-Joliet, IL HUD Metro FMR Area.
- Effective until superseded.
- Low, Very Low, Extremely Low Income and 30% AMI limits are as published by HUD.
- Income limits at all other income levels are calculated per HUD methodology, based on Very Low Income (50% AMI) limit.

CITY OF CHICAGO
MAXIMUM AFFORDABLE MONTHLY RENTS 2020

Maximum Monthly Gross Rents (maximum rents when tenants pay no utilities/landlord pays all utilities):

Number of Bedrooms	10% AMI	15% AMI	20% AMI	30% AMI	40% AMI	50% AMI (Low HOME Rent Limit)*	60% AMI	High HOME Rent Limit*	65% AMI	80% AMI	100% AMI	120% AMI	HUD Fair Market Rent*
0	$159	$239	$319	$479	$637	$796	$956	$956	$994	$1,275	$1,593	$1,911	$956
1	$171	$256	$341	$513	$683	$853	$1,024	$1,076	$1,066	$1,366	$1,706	$2,048	$1,076
2	$205	$307	$410	$615	$819	$1,023	$1,229	$1,248	$1,282	$1,639	$2,048	$2,457	$1,248
3	$237	$355	$473	$725	$947	$1,183	$1,420	$1,504	$1,472	$1,893	$2,366	$2,840	$1,585
4	$264	$396	$528	$879	$1,056	$1,320	$1,584	$1,659	$1,623	$1,707	$2,640	$3,168	$1,888
5	$291	$437	$583	$1,047	$1,166	$1,456	$1,748	$1,811	$1,771	$2,330	$2,914	$3,497	$2,171

Maximum rents when tenants pay for cooking gas and other electric (not heat):

	Number of Bedrooms	10% AMI	15% AMI	20% AMI	30% AMI	40% AMI	50% AMI (Low HOME Rent Limit)*	60% AMI	High HOME Rent Limit*	65% AMI	80% AMI	100% AMI	120% AMI	HUD Fair Market Rent*
Single-family	0	$114	$194	$274	$434	$592	$751	$911	$911	$949	$1,230	$1,548	$1,866	$911
	1	$114	$199	$284	$456	$626	$796	$967	$1,019	$1,009	$1,309	$1,649	$1,991	$1,019
	2	$136	$238	$341	$546	$750	$954	$1,160	$1,179	$1,213	$1,570	$1,979	$2,388	$1,179
	3	$156	$274	$392	$644	$866	$1,102	$1,339	$1,423	$1,391	$1,812	$2,285	$2,759	$1,504
	4	$170	$302	$434	$785	$962	$1,226	$1,490	$1,565	$1,529	$1,613	$2,546	$3,074	$1,794
	5	$185	$331	$477	$941	$1,060	$1,350	$1,642	$1,705	$1,665	$2,224	$2,808	$3,391	$2,065
Low-rise/Duplex/ Row House	0	$127	$207	$287	$447	$605	$764	$924	$924	$962	$1,243	$1,561	$1,879	$924
	1	$126	$211	$296	$468	$638	$808	$979	$1,031	$1,021	$1,321	$1,661	$2,003	$1,031
	2	$149	$251	$354	$559	$763	$967	$1,173	$1,192	$1,226	$1,583	$1,992	$2,401	$1,192
	3	$169	$287	$405	$657	$879	$1,115	$1,352	$1,436	$1,404	$1,825	$2,298	$2,772	$1,517
	4	$183	$315	$447	$798	$975	$1,239	$1,503	$1,578	$1,542	$1,626	$2,559	$3,087	$1,807
	5	$199	$345	$491	$955	$1,074	$1,364	$1,656	$1,719	$1,679	$2,238	$2,822	$3,405	$2,079
High-rise	0	$126	$206	$286	$446	$604	$763	$923	$923	$961	$1,242	$1,560	$1,878	$923
	1	$128	$213	$298	$470	$640	$810	$981	$1,033	$1,023	$1,323	$1,663	$2,005	$1,033
	2	$154	$256	$359	$564	$768	$972	$1,178	$1,197	$1,231	$1,588	$1,997	$2,406	$1,197
	3	$177	$295	$413	$665	$887	$1,123	$1,360	$1,444	$1,412	$1,833	$2,306	$2,780	$1,525
	4	$194	$326	$458	$809	$986	$1,250	$1,514	$1,589	$1,553	$1,637	$2,570	$3,098	$1,818
	5	$213	$359	$505	$969	$1,088	$1,378	$1,670	$1,733	$1,693	$2,252	$2,836	$3,419	$2,093

Effective July 1, 2020

CITY OF CHICAGO
MAXIMUM AFFORDABLE MONTHLY RENTS 2020

Maximum rents when tenants pay for electric heat, cooking gas, and other electric:

	Number of Bedrooms	10% AMI	15% AMI	20% AMI	30% AMI	40% AMI	50% AMI (Low HOME Rent Limit)*	60% AMI	High HOME Rent Limit*	65% AMI	80% AMI	100% AMI	120% AMI	HUD Fair Market Rent*
Single-family	0	$71	$151	$231	$391	$549	$708	$868	$868	$906	$1,187	$1,505	$1,823	$868
	1	$62	$147	$232	$404	$574	$744	$915	$967	$957	$1,257	$1,597	$1,939	$967
	2	$75	$177	$280	$485	$689	$893	$1,099	$1,118	$1,152	$1,509	$1,918	$2,327	$1,118
	3	$86	$204	$322	$574	$796	$1,032	$1,269	$1,353	$1,321	$1,742	$2,215	$2,689	$1,434
	4	$91	$223	$355	$706	$883	$1,147	$1,411	$1,486	$1,450	$1,534	$2,467	$2,995	$1,715
	5	$97	$243	$389	$853	$972	$1,262	$1,554	$1,617	$1,577	$2,136	$2,720	$3,303	$1,977
Low-rise/Duplex/ Row House	0	$88	$168	$248	$408	$566	$725	$885	$885	$923	$1,204	$1,522	$1,840	$885
	1	$79	$164	$249	$421	$591	$761	$932	$984	$974	$1,274	$1,614	$1,956	$984
	2	$94	$196	$299	$504	$708	$912	$1,118	$1,137	$1,171	$1,528	$1,937	$2,346	$1,137
	3	$106	$224	$342	$594	$816	$1,052	$1,289	$1,373	$1,341	$1,762	$2,235	$2,709	$1,454
	4	$112	$244	$376	$727	$904	$1,168	$1,432	$1,507	$1,471	$1,555	$2,488	$3,016	$1,736
	5	$120	$266	$412	$876	$995	$1,285	$1,577	$1,640	$1,600	$2,159	$2,743	$3,326	$2,000
High-rise	0	$104	$184	$264	$424	$582	$741	$901	$901	$939	$1,220	$1,538	$1,856	$901
	1	$101	$186	$271	$443	$613	$783	$954	$1,006	$996	$1,296	$1,636	$1,978	$1,006
	2	$123	$225	$328	$533	$737	$941	$1,147	$1,166	$1,200	$1,557	$1,966	$2,375	$1,166
	3	$141	$259	$377	$629	$851	$1,087	$1,324	$1,408	$1,376	$1,797	$2,270	$2,744	$1,489
	4	$154	$286	$418	$769	$946	$1,210	$1,474	$1,549	$1,513	$1,597	$2,530	$3,058	$1,778
	5	$168	$314	$460	$924	$1,043	$1,333	$1,625	$1,688	$1,648	$2,207	$2,791	$3,374	$2,048

Maximum rents when tenants pay for gas heat, cooking gas, and other electric:

	Number of Bedrooms	10% AMI	15% AMI	20% AMI	30% AMI	40% AMI	50% AMI (Low HOME Rent Limit)*	60% AMI	High HOME Rent Limit*	65% AMI	80% AMI	100% AMI	120% AMI	HUD Fair Market Rent*
Single-family	0	$87	$167	$247	$407	$565	$724	$884	$884	$922	$1,203	$1,521	$1,839	$884
	1	$82	$167	$252	$424	$594	$764	$935	$987	$977	$1,277	$1,617	$1,959	$987
	2	$99	$201	$304	$509	$713	$917	$1,123	$1,142	$1,176	$1,533	$1,942	$2,351	$1,142
	3	$114	$232	$350	$602	$824	$1,060	$1,297	$1,381	$1,349	$1,770	$2,243	$2,717	$1,462
	4	$123	$255	$387	$738	$915	$1,179	$1,443	$1,518	$1,482	$1,566	$2,499	$3,027	$1,747
	5	$133	$279	$425	$889	$1,008	$1,298	$1,590	$1,653	$1,613	$2,172	$2,756	$3,339	$2,013
Low-rise/Duplex/ Row House	0	$103	$183	$263	$423	$581	$740	$900	$900	$938	$1,219	$1,537	$1,855	$900
	1	$97	$182	$267	$439	$609	$779	$950	$1,002	$992	$1,292	$1,632	$1,974	$1,002
	2	$116	$218	$321	$526	$730	$934	$1,140	$1,159	$1,193	$1,550	$1,959	$2,368	$1,159
	3	$131	$249	$367	$619	$841	$1,077	$1,314	$1,398	$1,366	$1,787	$2,260	$2,734	$1,479
	4	$141	$273	$405	$756	$933	$1,197	$1,461	$1,536	$1,500	$1,584	$2,517	$3,045	$1,765
	5	$152	$298	$444	$908	$1,027	$1,317	$1,609	$1,672	$1,632	$2,191	$2,775	$3,358	$2,032
High-rise	0	$112	$192	$272	$432	$590	$749	$909	$909	$947	$1,228	$1,546	$1,864	$909
	1	$112	$197	$282	$454	$624	$794	$965	$1,017	$1,007	$1,307	$1,647	$1,989	$1,017
	2	$135	$237	$340	$545	$749	$953	$1,159	$1,178	$1,212	$1,569	$1,978	$2,387	$1,178
	3	$156	$274	$392	$644	$866	$1,102	$1,339	$1,423	$1,391	$1,812	$2,285	$2,759	$1,504
	4	$170	$302	$434	$785	$962	$1,226	$1,490	$1,565	$1,529	$1,613	$2,546	$3,074	$1,794
	5	$186	$332	$478	$942	$1,061	$1,351	$1,643	$1,706	$1,666	$2,225	$2,809	$3,392	$2,066

CITY OF CHICAGO
MAXIMUM AFFORDABLE MONTHLY RENTS 2020

Maximum rents when tenants pay for electric cooking and other electric (not heat):

	Number of Bedrooms	10% AMI	15% AMI	20% AMI	30% AMI	40% AMI	50% AMI (Low HOME Rent Limit)*	60% AMI	High HOME Rent Limit*	65% AMI	80% AMI	100% AMI	120% AMI	HUD Fair Market Rent*
Single-family	0	$110	$190	$270	$430	$588	$747	$907	$907	$945	$1,226	$1,544	$1,862	$907
	1	$109	$194	$279	$451	$621	$791	$962	$1,014	$1,004	$1,304	$1,644	$1,986	$1,014
	2	$129	$231	$334	$539	$743	$947	$1,153	$1,172	$1,206	$1,563	$1,972	$2,381	$1,172
	3	$148	$266	$384	$636	$858	$1,094	$1,331	$1,415	$1,383	$1,804	$2,277	$2,751	$1,496
	4	$161	$293	$425	$776	$953	$1,217	$1,481	$1,556	$1,520	$1,604	$2,537	$3,065	$1,785
	5	$175	$321	$467	$931	$1,050	$1,340	$1,632	$1,695	$1,655	$2,214	$2,798	$3,381	$2,055
Low-rise/Duplex/ Row House	0	$123	$203	$283	$443	$601	$760	$920	$920	$958	$1,239	$1,557	$1,875	$920
	1	$121	$206	$291	$463	$633	$803	$974	$1,026	$1,016	$1,316	$1,656	$1,998	$1,026
	2	$142	$244	$347	$552	$756	$960	$1,166	$1,185	$1,219	$1,576	$1,985	$2,394	$1,185
	3	$161	$279	$397	$649	$871	$1,107	$1,344	$1,428	$1,396	$1,817	$2,290	$2,764	$1,509
	4	$174	$306	$438	$789	$966	$1,230	$1,494	$1,569	$1,533	$1,617	$2,550	$3,078	$1,798
	5	$189	$335	$481	$945	$1,064	$1,354	$1,646	$1,709	$1,669	$2,228	$2,812	$3,395	$2,069
High-rise	0	$122	$202	$282	$442	$600	$759	$919	$919	$957	$1,238	$1,556	$1,874	$919
	1	$123	$208	$293	$465	$635	$805	$976	$1,028	$1,018	$1,318	$1,658	$2,000	$1,028
	2	$147	$249	$352	$557	$761	$965	$1,171	$1,190	$1,224	$1,581	$1,990	$2,399	$1,190
	3	$169	$287	$405	$657	$879	$1,115	$1,352	$1,436	$1,404	$1,825	$2,298	$2,772	$1,517
	4	$185	$317	$449	$800	$977	$1,241	$1,505	$1,580	$1,544	$1,628	$2,561	$3,089	$1,809
	5	$203	$349	$495	$959	$1,078	$1,368	$1,660	$1,723	$1,683	$2,242	$2,826	$3,409	$2,083

Maximum rents when tenants pay only for other electric:

	Number of Bedrooms	10% AMI	15% AMI	20% AMI	30% AMI	40% AMI	50% AMI (Low HOME Rent Limit)*	60% AMI	High HOME Rent Limit*	65% AMI	80% AMI	100% AMI	120% AMI	HUD Fair Market Rent*
Single-family	0	$116	$196	$276	$436	$594	$753	$913	$913	$951	$1,232	$1,550	$1,868	$913
	1	$117	$202	$287	$459	$629	$799	$970	$1,022	$1,012	$1,312	$1,652	$1,994	$1,022
	2	$139	$241	$344	$549	$753	$957	$1,163	$1,182	$1,216	$1,573	$1,982	$2,391	$1,182
	3	$160	$278	$396	$648	$870	$1,106	$1,343	$1,427	$1,395	$1,816	$2,289	$2,763	$1,508
	4	$175	$307	$439	$790	$967	$1,231	$1,495	$1,570	$1,534	$1,618	$2,551	$3,079	$1,799
	5	$190	$336	$482	$946	$1,065	$1,355	$1,647	$1,710	$1,670	$2,229	$2,813	$3,396	$2,070
Low-rise/Duplex/ Row House	0	$129	$209	$289	$449	$607	$766	$926	$926	$964	$1,245	$1,563	$1,881	$926
	1	$129	$214	$299	$471	$641	$811	$982	$1,034	$1,024	$1,324	$1,664	$2,006	$1,034
	2	$152	$254	$357	$562	$766	$970	$1,176	$1,195	$1,229	$1,586	$1,995	$2,404	$1,195
	3	$173	$291	$409	$661	$883	$1,119	$1,356	$1,440	$1,408	$1,829	$2,302	$2,776	$1,521
	4	$188	$320	$452	$803	$980	$1,244	$1,508	$1,583	$1,547	$1,631	$2,564	$3,092	$1,812
	5	$204	$350	$496	$960	$1,079	$1,369	$1,661	$1,724	$1,684	$2,243	$2,827	$3,410	$2,084
High-rise	0	$128	$208	$288	$448	$606	$765	$925	$925	$963	$1,244	$1,562	$1,880	$925
	1	$131	$216	$301	$473	$643	$813	$984	$1,036	$1,026	$1,326	$1,666	$2,008	$1,036
	2	$157	$259	$362	$567	$771	$975	$1,181	$1,200	$1,234	$1,591	$2,000	$2,409	$1,200
	3	$181	$299	$417	$669	$891	$1,127	$1,364	$1,448	$1,416	$1,837	$2,310	$2,784	$1,529
	4	$199	$331	$463	$814	$991	$1,255	$1,519	$1,594	$1,558	$1,642	$2,575	$3,103	$1,823
	5	$218	$364	$510	$974	$1,093	$1,383	$1,675	$1,738	$1,698	$2,257	$2,841	$3,424	$2,098

CITY OF CHICAGO
MAXIMUM AFFORDABLE MONTHLY RENTS 2020

		Utility allowances per CHA schedule for:				
	Number of Bedrooms	Cooking gas & other electric (not heat)	Electric heat, cooking gas & other electric	Gas heat, cooking gas & other electric	Electric cooking & other electric (not heat)	Other electric only (not cooking or heat)
Single-family	0	$45	$88	$72	$49	$43
	1	$57	$109	$89	$62	$54
	2	$69	$130	$106	$76	$66
	3	$81	$151	$123	$89	$77
	4	$94	$173	$141	$103	$89
	5	$106	$194	$158	$116	$101
Low-rise/Duplex/ Row House	0	$32	$71	$56	$36	$30
	1	$45	$92	$74	$50	$42
	2	$56	$111	$89	$63	$53
	3	$68	$131	$106	$76	$64
	4	$81	$152	$123	$90	$76
	5	$92	$171	$139	$102	$87
High-rise	0	$33	$55	$47	$37	$31
	1	$43	$70	$59	$48	$40
	2	$51	$82	$70	$58	$48
	3	$60	$96	$81	$68	$56
	4	$70	$110	$94	$79	$65
	5	$78	$123	$105	$88	$73

NOTE: Gross rent limits for 50% and 65% AMI, High HOME Rent and Fair Market Rent are as published by HUD. All other rent limits are calculated assuming 1.5 occupants per bedroom and 1 occupant for an apartment with no bedrooms.

* For HOME-funded developments, rents are the lesser of the Fair Market Rent or the High HOME Rent for the unit size. In HOME-funded developments with 5 or more units, 20% of the HOME-assisted units must be occupied by very low income families whose rents do not exceed 30% of the annual income of a family @ 50% of the area median. This is known as the "Low HOME Rent."

DEPARTMENT OF HOUSING
AFFORDABLE UNIT PRICING GUIDE

For more information or an electronic version of this worksheet, contact Brian O'Donnell at (312)744-0141.

Property:
Address:
Developer:

DOH contact:
Date price calculated:

NOTE: Only enter data in the green shaded cells. The pricing guide will calculate the rest

Line		120% AMI				
1	Resale Restriction or Recapture Mortgage					
2	**Number of Bedroom**	**2**	**3**	**4**	**5**	**6**
3	**Developer's Market Price** (enter)		**$400,000**			
4	Monthly Tax Estimate	$0	$567	$0	$0	$0
5	Monthly Maintenance Costs	$150	$175	$200	$225	$250
6	Monthly Private Mortgage Insurance	$0	$511	$0	$0	$0
7	Monthly Homeowner's Insurance	$0	$250	$0	$0	$0
8	Mortgage Interest Rate	4.56%	4.56%	4.56%	4.56%	4.56%
9	**Estimated Affordable Price** (enter)		**$340,000**			
10	Mortgage Principal @ 97% Loan-to-Value	$0	$329,800	$0	$0	$0
11	Monthly Principal & Interest Payment	$0	$1,683	$0	$0	$0
12	Plus: Tax, Insurance, Assessment, Fee, PMI	$150	$1,503	$200	$225	$250
13	Total Monthly Payments	$150	$3,186	$200	$225	$250
14	**Required Annual Gross Income**	**$5,455**	**$115,852**	**$7,273**	**$8,182**	**$9,091**
15	**Maximum Allowable Income (120% AMI)**	$98,280	$113,580	$126,720	$139,860	$152,880

HUD Median Income for Unit Type/Family Size
for purposes of calculating max resale price (NOT for determining eligibility to purchase or lease a unit)

Bedrooms	Family Size	80% Median	100% Median	120% Median	140% Median
1	1	$51,000	$63,700	$76,440	$89,180
2	3	$65,550	$81,900	$98,280	$114,660
3	4.5	$75,725	$94,650	$113,580	$132,510
4	6.0	$84,450	$105,600	$126,720	$147,840
5	7.5	$93,200	$116,550	$139,860	$163,170
6	9.0	$101,950	$127,400	$152,880	$178,360

HUD figures as of April 1, 2020

LINE NOTES:

1 Units will be kept affordable by a resale restriction, unless otherwise specified.

2 Use column matching the number of bedrooms in unit.

3 Enter developer's market rate price.

4 Property taxes are estimated at 2% of the estimated **affordable** price. If the project does not go into the Chicago Community Land Trust (CCLT), taxes should be calculated off the market price.

5 The assessment is the higher of the amount indicated by the developer/homeowner - or the average assessments, calculated by the City using MLS data, for units by number of bedrooms. For single family homes, a monthly maintenance cost of $150 should be included in the calucations.

6 PMI is estimated at 186 BPS

7 Property insurance is estimated at 0.25% of the market price - or 0.75% for single family homes and townhomes

8 Interst rate calculation

1 basis point added to the 10-year monthly average of FNMA interest rates, as calculated by DOH, which is currently: **3.56**

9 Use trial-and-error to match the affordable price to the required annual gross income necessary to qualify for this price (Line 15). Does the affordable price include parking? ___ yes ___ no (See Line 3 note).

10 Loan amount at 97% of the affordable price.

11 Monthly payments based on a 30-year loan at the mortgage rate entered on Line 9.

12 The total of Lines 4, 5, 6, 7and 8.

13 The total of Lines 12 and 13.

14 The annual gross income (assuming 1.5 persons per bedroom, and household housing costs that total no more than 33% of their total gross annual income) required to qualify for a loan on the affordable unit at the indicated affordable price (Line 10).

DEPARTMENT OF HOUSING
AFFORDABLE UNIT PRICING GUIDE

For more information or an electronic version of this worksheet, contact Brian O'Donnell at (312)744-0141.

Property:
Address:
Developer:

DOH contact:
Date price calculated:

NOTE: Only enter data in the green shaded cells. The pricing guide will calculate the rest

Line		100% AMI				
1	Resale Restriction or Recapture Mortgage					
2	**Number of Bedroom**	**2**	**3**	**4**	**5**	**6**
3	**Developer's Market Price** (enter)			**$550,000**		
4	Monthly Tax Estimate	$0	$0	$482	$0	$0
5	Monthly Maintenance Costs	$150	$175	$200	$225	$250
6	Monthly Private Mortgage Insurance	$0	$0	$435	$0	$0
7	Monthly Homeowner's Insurance	$0	$0	$344	$0	$0
8	Mortgage Interest Rate	4.56%	4.56%	4.56%	4.56%	4.56%
9	**Estimated Affordable Price** (enter)			**$289,000**		
10	Mortgage Principal @ 97% Loan-to-Value	$0	$0	$280,330	$0	$0
11	Monthly Principal & Interest Payment	$0	$0	$1,431	$0	$0
12	Plus: Tax, Insurance, Assessment, Fee, PMI	$150	$175	$1,460	$225	$250
13	Total Monthly Payments	$150	$175	$2,891	$225	$250
14	**Required Annual Gross Income**	**$5,455**	**$6,364**	**$105,111**	**$8,182**	**$9,091**
15	**Maximum Allowable Income (100% AMI)**	$81,900	$94,650	$105,600	$116,550	$127,400

HUD Median Income for Unit Type/Family Size
for purposes of calculating max resale price (NOT for determining eligibility to purchase or lease a unit)

Bedrooms	Family Size	80% Median	100% Median	120% Median	140% Median
1	1	$51,000	$63,700	$76,440	$89,180
2	3	$65,550	$81,900	$98,280	$114,660
3	4.5	$75,725	$94,650	$113,580	$132,510
4	6.0	$84,450	$105,600	$126,720	$147,840
5	7.5	$93,200	$116,550	$139,860	$163,170
6	9.0	$101,950	$127,400	$152,880	$178,360

HUD figures as of April 1, 2020

LINE NOTES:

1 Units will be kept affordable by a resale restriction, unless otherwise specified.

2 Use column matching the number of bedrooms in unit.

3 Enter developer's market rate price.

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6 PMI is estimated at 186 BPS

7 Property insurance is estimated at 0.25% of the market price - or 0.75% for single family homes and townhomes

8 Interst rate calculation

1 basis point added to the 10-year monthly average of FNMA interest rates, as calculated by DOH, which is currently: **3.56**

9 Use trial-and-error to match the affordable price to the required annual gross income necessary to qualify for this price (Line 15). Does the affordable price include parking? ___ yes ___ no (See Line 3 note).

10 Loan amount at 97% of the affordable price.

11 Monthly payments based on a 30-year loan at the mortgage rate entered on Line 9.

12 The total of Lines 4, 5, 6, 7and 8.

13 The total of Lines 12 and 13.

14 The annual gross income (assuming 1.5 persons per bedroom, and household housing costs that total no more than 33% of their total gross annual income) required to qualify for a loan on the affordable unit at the indicated affordable price (Line 10).

DEPARTMENT OF HOUSING
AFFORDABLE UNIT PRICING GUIDE

For more information or an electronic version of this worksheet, contact Brian O'Donnell at (312)744-0141.

Property:
Address:
Developer:

DOH contact:
Date price calculated:

NOTE: Only enter data in the green shaded cells. The pricing guide will calculate the rest

Line		140% AMI				
1	Resale Restriction or Recapture Mortgage					
2	**Number of Bedroom**	**2**	**3**	**4**	**5**	**6**
3	**Developer's Market Price** (enter)			**$550,000**		
4	Monthly Tax Estimate	$0	$0	$0	$0	$0
5	Monthly Maintenance Costs	$150	$175	$200	$225	$250
6	Monthly Private Mortgage Insurance	$0	$0	$0	$0	$0
7	Monthly Homeowner's Insurance	$0	$0	$344	$0	$0
8	Mortgage Interest Rate	4.56%	4.56%	4.56%	4.56%	4.56%
9	**Estimated Affordable Price** (enter)					
10	Mortgage Principal @ 97% Loan-to-Value	$0	$0	$0	$0	$0
11	Monthly Principal & Interest Payment	$0	$0	$0	$0	$0
12	Plus: Tax, Insurance, Assessment, Fee, PMI	$150	$175	$544	$225	$250
13	Total Monthly Payments	$150	$175	$544	$225	$250
14	**Required Annual Gross Income**	**$5,455**	**$6,364**	**$19,773**	**$8,182**	**$9,091**
15	**Maximum Allowable Income (140% AMI)**	$114,660	$132,510	$147,840	$163,170	$178,360

HUD Median Income for Unit Type/Family Size
for purposes of calculating max resale price (NOT for determining eligibility to purchase or lease a unit)

Bedrooms	Family Size	80% Median	100% Median	120% Median	140% Median
1	1	$51,000	$63,700	$76,440	$89,180
2	3	$65,550	$81,900	$98,280	$114,660
3	4.5	$75,725	$94,650	$113,580	$132,510
4	6.0	$84,450	$105,600	$126,720	$147,840
5	7.5	$93,200	$116,550	$139,860	$163,170
6	9.0	$101,950	$127,400	$152,880	$178,360

HUD figures as of April 1, 2020

LINE NOTES:

1 Units will be kept affordable by a resale restriction, unless otherwise specified.

2 Use column matching the number of bedrooms in unit.

3 Enter developer's market rate price.

4 Property taxes are estimated at 2% of the estimated **affordable** price. If the project does not go into the Chicago Community Land Trust (CCLT), taxes should be calculated off the market price.

5 The assessment is the higher of the amount indicated by the developer/homeowner - or the average assessments, calculated by the City using MLS data, for units by number of bedrooms. For single family homes, a monthly maintenance cost of $150 should be included in the calucations.

6 PMI is estimated at 186 BPS

7 Property insurance is estimated at 0.25% of the market price - or 0.75% for single family homes and townhomes

8 Interst rate calculation

1 basis point added to the 10-year monthly average of FNMA interest rates, as calculated by DOH, which is currently: **3.56**

9 Use trial-and-error to match the affordable price to the required annual gross income necessary to qualify for this price (Line 15). Does the affordable price include parking? ___ yes ___ no (See Line 3 note).

10 Loan amount at 97% of the affordable price.

11 Monthly payments based on a 30-year loan at the mortgage rate entered on Line 9.

12 The total of Lines 4, 5, 6, 7and 8.

13 The total of Lines 12 and 13.

14 The annual gross income (assuming 1.5 persons per bedroom, and household housing costs that total no more than 33% of their total gross annual income) required to qualify for a loan on the affordable unit at the indicated affordable price (Line 10).

DEPARTMENT OF HOUSING
AFFORDABLE UNIT PRICING GUIDE

For more information or an electronic version of this worksheet, contact Brian O'Donnell at (312)744-0141.

Property:		**DOH contact:**	
Address:		**Date price calculated:**	
Developer:			

NOTE: Only enter data in the green shaded cells. The pricing guide will calculate the rest

Line		80% AMI				
1	Resale Restriction or Recapture Mortgage					
2	**Number of Bedroom**	**2**	**3**	**4**	**5**	**6**
3	**Developer's Market Price** (enter)			**$550,000**		
4	Monthly Tax Estimate	$0	$0	$358	$0	$0
5	Monthly Maintenance Costs	$150	$175	$200	$225	$250
6	Monthly Private Mortgage Insurance	$0	$0	$323	$0	$0
7	Monthly Homeowner's Insurance	$0	$0	$344	$0	$0
8	Mortgage Interest Rate	4.56%	4.56%	4.56%	4.56%	4.56%
9	**Estimated Affordable Price** (enter)			**$215,000**		
10	Mortgage Principal @ 97% Loan-to-Value	$0	$0	$208,550	$0	$0
11	Monthly Principal & Interest Payment	$0	$0	$1,064	$0	$0
12	Plus: Tax, Insurance, Assessment, Fee, PMI	$150	$175	$1,225	$225	$250
13	Total Monthly Payments	$150	$175	$2,290	$225	$250
14	**Required Annual Gross Income**	**$5,455**	**$6,364**	**$83,259**	**$8,182**	**$9,091**
15	**Maximum Allowable Income (80% AMI)**	$65,550	$75,725	$84,450	$93,200	$101,950

HUD Median Income for Unit Type/Family Size
for purposes of calculating max resale price (NOT for determining eligibility to purchase or lease a unit)

Bedrooms	Family Size	80% Median	100% Median	120% Median	140% Median
1	1	$51,000	$63,700	$76,440	$89,180
2	3	$65,550	$81,900	$98,280	$114,660
3	4.5	$75,725	$94,650	$113,580	$132,510
4	6.0	$84,450	$105,600	$126,720	$147,840
5	7.5	$93,200	$116,550	$139,860	$163,170
6	9.0	$101,950	$127,400	$152,880	$178,360

HUD figures as of April 1, 2020

LINE NOTES:

1 Units will be kept affordable by a resale restriction, unless otherwise specified.

2 Use column matching the number of bedrooms in unit.

3 Enter developer's market rate price.

4 Property taxes are estimated at 2% of the estimated **affordable** price. If the project does not go into the Chicago Community Land Trust (CCLT), taxes should be calculated off the market price.

5 The assessment is the higher of the amount indicated by the developer/homeowner - or the average assessments, calculated by the City using MLS data, for units by number of bedrooms. For single family homes, a monthly maintenance cost of $150 should be included in the calucations.

6 PMI is estimated at 186 BPS

7 Property insurance is estimated at 0.25% of the market price - or 0.75% for single family homes and townhomes

8 Interst rate calculation

1 basis point added to the 10-year monthly average of FNMA interest rates, as calculated by DOH, which is currently: **3.56**

9 Use trial-and-error to match the affordable price to the required annual gross income necessary to qualify for this price (Line 15). Does the affordable price include parking? ___ yes ___ no (See Line 3 note).

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12 The total of Lines 4, 5, 6, 7and 8.

13 The total of Lines 12 and 13.

14 The annual gross income (assuming 1.5 persons per bedroom, and household housing costs that total no more than 33% of their total gross annual income) required to qualify for a loan on the affordable unit at the indicated affordable price (Line 10).

property taxes	2% of the affordable price. If the property doesn't go into the CCLT, the taxes should be calculated off the market price				
condo assessment	The assessment is the higher of the amount indicated by the developer/homeowner - or the average assessments, calculated by the City using MLS data, for units by number of bedrooms. For single family homes, a monthly maintenance cost of $150 should be included in the calculations.				
Private Mortgage Insurance	PMI is estimated at 186 BPS				
Property Insurance	Property insurance is estimated at 0.75% of the market value for single family homes and townhomes				
Interest Rate	The interest rate one (1) basis point added to the 10 year average (first business day of month) of FNMA required net yield for 30-year Actual/Actual Remittances fixed-rate mortgages covered by the 60-day mandatory delivery whole loan commitments				

The annual gross income (assuming 1.5 persons per bedroom, and household housing costs that total no more than 33% of their total gross annual income) required to qualify for a loan on the affordable unit at the indicated affordable price (Line 10).

CHICAGO COMMUNITY LAND TRUST
OVERVIEW

The Chicago Community Land Trust (CCLT) is a private not-for-profit corporation (IRS 501(c)3 designation) established by City of Chicago Ordinance in 2006 to provide and sustain quality, affordable homeownership opportunities and a community of support for working families and individuals in Chicago, and to preserve these opportunities for future generations. CCLT is governed by a Board of Directors appointed by the Mayor and comprised of representatives from financial institutions, community development organizations, non-profit organizations, governmental agencies and municipal departments.

CCLT accomplishes its mission by managing and adding to a portfolio of owner-occupied homes (condominiums, townhomes, and SF-detached homes) that are priced affordably and sold to low-to-moderate income owner-occupants – households at or below the Area Median Income. Currently (August 2020) CCLT manages a portfolio of 105 homes in 15 different Community Areas in Chicago. CCLT homeowners have an average household income of 78% of the Area Median Income at time of purchase.

Homes currently in the CCLT portfolio are subject to a 30-year Affordable Housing Agreement and Restrictive Covenant (Covenant) which has several requirements:

- purchasers of a CCLT home must be income-eligible;
- CCLT owners must occupy the home as principal residence for as long as they own the home;
- future sales of a CCLT home must be to other income-eligible owner-occupants; and
- the maximum resale price of a CCLT home is determined by formulas in the Covenant.

Many homes in the CCLT portfolio have been added as a result of the City of Chicago's Affordable Requirements Ordinance (ARO) – and the home prices for these ARO units are established in the developer's agreement with the City. CCLT certifies that potential buyers are income-eligible and are pre-approved for financing before a Purchase Contract for the home is executed.

Existing homeowners can choose to Opt-In to the CCLT portfolio as well by executing the 30-year Covenant. CCLT also has the ability to acquire, rehab and sell homes at affordable prices to income-eligible home buyers. According to the terms of the Covenant and in exchange for an affordable purchase price and reduced property taxes (based on a working agreement between CCLT and the Cook County Assessor) owners agree to resell at an affordable price to an income-eligible home buyer. Owners earn a share of market value appreciation, but the CCLT calculation of maximum resale price ensures that equity will remain in the home to maintain affordability.

CCLT adds value not only by preserving affordability but, as in traditional homeownership, CCLT homes promote neighborhood stability by allowing families to put down roots in their communities. CCLT ensures that buyers are educated about the obligations and responsibilities of homeownership in addition to the requirements of the CCLT itself. CCLT works with a group of lenders who are familiar with the CCLT requirements and offer products that are affordable and competitively-priced for CCLT buyers.

CHICAGO COMMUNITY LAND TRUST
OVERVIEW

The Chicago Community Land Trust currently engages in four primary program activities:

1) ***Outreach & Marketing***

CCLT markets its homeownership opportunities through non-profit partner agencies, lenders, the City of Chicago website, and direct marketing to over 1700 subscribers to CCLT's monthly newsletter and E-blasts. CCLT also provides developers of CCLT homes with marketing and resource materials for distribution. CCLT does regular E-blasts marketing CCLT homes (both new construction and resales) for sale.

CCLT educates developers, aldermen, community organizations and the public at large about its work. As a national model, CCLT provides technical assistance to other governmental and non-governmental agencies interested in the CCLT model and its Opt-In feature for existing homeowners.

2) ***Homebuyer Education & Resources***

CCLT offers twice-monthly Orientation workshops on the process of purchasing a home through CCLT, along with information about City programs for homebuyers. CCLT collaborates with HUD-certified non-profit housing counseling agencies that provide 8-hour Home Buyer Education classes. CCLT recruits and provides technical assistance to lenders, attorneys and other professionals that CCLT buyers need to purchase a home, and provides lists of these resources to CCLT buyers. CCLT staff coordinates closings on all CCLT homes with sellers, lenders, real estate professionals, and attorneys to ensure a smooth closing process.

3) Affordable Housing Creation

Under a Pilot Program established in 2020 (Affordable Homeownership & Housing Program – AHHP), CCLT acquires homes (SF-detached, townhomes, condos, 2-units) in six Target Community Areas for rehabilitation and resale at affordable prices to income-eligible buyers. CCLT works collaboratively with other community-based land trusts in this endeavor and provides the capital for the acquisition of homes.

4) ***Stewardship***

CCLT has a long-term partnership through the 30-year Covenant with CCLT homeowners and an on-going stewardship function. CCLT's stewardship activities include workshops on home ownership skills, issues and programs; default/foreclosure prevention counseling services through referrals and CCLT's partners; working with CCLT condo owners to troubleshoot development issues both directly and through referrals; refinancing and resale oversight and assistance; and property tax appeal filing and monitoring to ensure homeowners secure CCLT tax benefits. CCLT also monitors its homes to confirm owner occupancy, payment of property taxes, and that homes are free of unauthorized liens.

ILLINOIS GREEN

A USGBC COMMUNITY

Resources for Energy Efficiency Project Information and Financing

Organizations with Information and Support for Sustainable Design and Facilities Operations

- **Illinois Green Alliance**
- **Illinois EPA**
- **Smart Energy Design Assistance Center** (SEDAC) – information about energy efficiency programs, certifications, and training
- **ENERGY STAR** information (from the EPA)
    - ENERGY STAR information for new construction
    - EPA WaterSense information
- **Elevate Energy** – information about energy efficiency

Utility Assessments and Incentives

- **ComEd**
    - Energy Efficiency Information for Commercial Buildings (electricity)
    - Commercial Property Energy Efficiency Incentive Information
- **Peoples Gas**
    - Energy Efficiency Information for Commercial Buildings (natural gas)
    - Information about Natural Gas Incentives

Other Financing Information and Opportunities

- **Database of State Incentives for Renewables & Efficiency** (DSIRE) – collection of policies and financing opportunities by state
- **Chicago PACE** – financing opportunities for eligible energy projects for existing and new construction for commercial, industrial, and multifamily properties.
- **Illinois Solar for All** – solar development opportunities for low-income and environmental justice communities.
- **Nonprofit Green Lending Program** from Faith In Place – financing opportunities for energy efficiency projects at nonprofits and houses of worship.
- **Community Investment Corporation Energy Savers** (CIC) – financing opportunities for energy efficiency projects at multi-family rehabs
- **Illinois Clean Energy Community Foundation** – grants and financing opportunities for renewable energy projects and natural area conservation.
- **Illinois EPA** – grant and loan information for land, water, and air projects in Illinois
- **SEDAC** – information about incentive programs in Illinois



PRE-PERMIT REVIEWS

The Commission on Chicago Landmarks (the "Commission") reviews all permit applications for alteration, construction, reconstruction, erection, demolition, relocation, or other work for any area, district, place, building, structure, work of art, or other object that is a designated Chicago Landmark or a proposed Chicago Landmark (i.e., the Commission has made a preliminary recommendation for landmark status) or which is located within a designated or proposed Chicago Landmark District. The Department of Buildings routes building permit applications to Commission staff for review as part of the building permit process. The purpose of the Commission's review is to ensure that the proposed work will not adversely affect any significant historical or architectural features of the improvement or the landmark district. The pre-permit review process is set forth in Article III, Section C, of the Commission's *Rules and Regulations*. The Commission's review of permit applications is guided by the City of Chicago Landmarks Ordinance (Municipal Code of Chicago, Section 2-120-580 et seq.), the *U.S. Secretary of the Interior's Standards for Rehabilitation of Historic Buildings,* the Commission's *Guidelines for Alterations to Historic Buildings and New Construction*, and the Commission's *Rules and Regulations* (such documents, as may be amended from time to time, collectively, the "Guidelines"). Projects not requiring the Commission's or its Permit Review Committee's review may be approved by the Commission staff through the regular building permit process.

The Commission encourages applicants to seek its advice and guidance before filing a building permit application. A pre-permit submission can clarify landmark requirements for the applicant and help expedite the Commission's review during the permit application process. Typically, minimal information (such as photographs, plat of survey, description of proposed work, etc.) is required for a first review by Commission staff to determine whether the pre-permit application will need to be reviewed by the Commission or its Permit Review Committee or can be reviewed by Commission staff. Questions about the required submittal information or the pre-permit review process should be directed to Commission staff. While the Commission staff can provide direction on most projects, some types of proposed work will need to be reviewed by the Commission or its Permit Review Committee at a public meeting.

The Commission or its Permit Review Committee, depending on the scope of the project, reviews the following types of proposed work on a "pre-permit" basis:

- New infill construction projects
- Garages on corner properties
- Building additions, dormers, and rooftop additions visible from the public way, except for rear additions no taller and no wider than the existing building and not located on corner lots
- Signage requiring City Council approval due to its size or height above grade
- Driveways and curb cuts
- Demolitions of 40% or more of any building or other structure designated as a Chicago Landmark or located in any Chicago Landmark District, pursuant to Sec. 2-120-825 of the Municipal Code
- Projects otherwise referred by the Commission staff, such as, but not limited to, projects that involve unusual conditions and projects that do not comply with the Commission's criteria, standards or guidelines

SUBMITTAL CHECKLIST – Permit Review Committee PRE-PERMIT REVIEW

The following submittal checklists and information identify the documents and information that must be included as part of a pre-permit submission. All submitted information regarding proposed work must completely, clearly, and accurately present the project, in terms of both existing and proposed conditions and the effect of the proposed work on the improvement. Please be advised that the documents, including plans, and information that an applicant submits are subject to disclosure by the City, including when pursuant to a request made under the Illinois Freedom of Information Act.

For types of proposed work not identified below, or involving unusual conditions, or which do not comply with the Guidelines, additional information may be required by the Commission staff beyond what is identified below. In other instances, the Commission staff may determine that some of the information or the indicated level of detail is unnecessary if the submittal provides all the information otherwise necessary to review the project. The Commission encourages applicants to contact the Commission staff prior to submitting an application to ensure that it will include all the necessary information.

- Drawings submitted as part of a pre-permit review must be substantially complete and accurately depicted, and include all information and details necessary for the review.
- At the discretion of Commission staff, pre-permit submissions for projects requiring special zoning or building code approvals or exceptions may be deemed incomplete.

All Projects – Permit Review Committee Submittal Requirements

☐ Project Information Form (page 6). For complex projects, a separate narrative explaining the project in further detail shall be included.

☐ One pdf of the drawings (electronic copy less than 5 mb file size) of all required submittals identified below. For larger projects, a hard copy of drawings (11" x 17") and a Powerpoint presentation on a CD may be required.

All drawings shall be dimensioned, drawn to scale, and completely, clearly, and accurately present the project:

- Site plans shall include: building footprints with front, side, and rear yard dimensions; garages, driveways, parking, and curb cuts; outlines of neighboring buildings; and location of fences and other structures. For additions, also include existing, demolished, and new portions of building (all dimensioned). For porches, setbacks are measured to the faces of the porch and the building. A professional survey may be required by Commission staff.
- Demolition plans shall show the portions of the existing building to be removed. Proposed floor plans, elevations, roof plans, and sections should clearly indicate existing and proposed work.
- Elevations should indicate materials, windows and doors, railings, and other features. Additional details shall be provided as required by Commission staff. Height and elevation marks shall be indicated, including heights from grade to top of eaves, ridge, roof, parapet, etc. A professional survey of building heights may be required by Commission staff.
- Sections should indicate floor-to-floor heights (and head clearances under sloped roofs), overall building heights (from grade to eaves, ridges, parapets, etc.), heights of dormers (with both exterior dimensions and interior head clearances, as applicable), railing heights, etc. Additional details shall be provided as required by Commission staff.
- Site plans, floor plans, roof plans, elevations, sections, and other drawings shall include, whether existing or proposed, mechanical/HVAC equipment, vents and grills, utility equipment, gutters and downspouts, rooftop appurtenances, lighting fixtures, awnings and canopies, and signage. Ceiling heights, soffits, partial and full-height walls, and other obstructions behind doors, windows, and storefronts shall be included on all drawings. Window and door schedules may be required by the Commission staff. Additional details for eaves, gutters/downspouts, plaster reglets, control joints, reveals, soffits, returns, surface-applied materials, etc., shall be provided.

New Infill Construction Projects

- ☐ Proposed drawings including existing site survey, site plan, floor plans, elevations, roof plan, and cross and longitudinal sections
- ☐ Information on proposed exterior features, such as windows, doors, skylights, garage doors, railings, exterior materials (including material samples as required), finishes, details, etc.
- ☐ Zoning code analysis and any building code issues/assumptions, if applicable, regarding the proposed work
- ☐ Design statement and analysis of how the project meets the Criteria for New Construction, Additions and Alterations to Non-Contributing Buildings (Article III, G5, of the Commission's *Rules and Regulations*)
- ☐ Background and contextual information:
  - Streetscape photographs in street number order of the subject block or blocks, both sides of the street and including the subject property
  - Streetscape elevation(s) of the subject block or blocks, including the proposed project, and with all building heights shown (to parapet, ridgeline and eave, porch roof, stoop, etc., as applicable); a professional survey of building heights may be required by Commission staff
  - Streetscape site plan for the subject block or blocks, including the proposed project, and with all front and side setbacks shown to porch and building faces; a professional survey of setbacks for the subject blocks may be required by Commission staff
  - For large-scale new construction projects, additional photo views, sight-line drawings, renderings, perspective drawings, and/or massing models may be required by Commission staff

Garages on Corner Properties

- ☐ Proposed drawings including existing site survey, site plan, floor plans, elevations, roof plan, and cross and longitudinal sections
- ☐ Photographs of the subject property and garage
- ☐ Information on proposed exterior features, such as windows, doors, garage doors, exterior materials, finishes, details, etc.
- ☐ Zoning code analysis and any building code issues/assumptions, if applicable, regarding the proposed work

Building Additions, Rooftop Additions, Dormers, Porches, Decks/Roof Decks

- ☐ Existing and proposed drawings including existing site survey, site plan, floor plans, elevations, roof plan, cross and longitudinal sections, and a demolition plan. If elevations are to change substantially, existing and proposed elevations should be presented side-by-side. For projects involving the proposed partial demolition of the significant historical or architectural features (as identified in the applicable landmark designation ordinance, and, if not identified, the entire building or structure shall be deemed a significant feature) of any building or structure that is a Chicago Landmark or located within a Chicago Landmark District, Commission staff may require an applicant to provide calculations establishing the percentage of significant historical or architectural features to be demolished pursuant to Section 2-120-825 of the Municipal Code of Chicago
- ☐ Photographs of the subject property and other information on existing conditions, such as details, drawings, and/or material samples, as applicable to the proposed work
- ☐ Information on proposed exterior features, such as windows, doors, skylights, railings, exterior materials, finishes, details, etc.
- ☐ Zoning code analysis and any building code issues/assumptions, if applicable, regarding the proposed work

☐ For some projects, an engineering report, conditions report, or construction phasing plan may be required

☐ Design statement analysis of how the project meets the Criteria for Determining Adverse Effect and Criteria for New Construction, Additions and Alterations to Non-Contributing Buildings (Article III, G3 and G5, of the Commission's *Rules and Regulations*).

☐ Background and contextual information: Depending on the type of proposed work, the Commission staff may require the followingz:

- Streetscape photographs in street number order of the subject block or blocks, both sides of the street and including the subject property.
- Streetscape elevation(s) of the subject block or blocks, including the proposed project, and with all building heights shown (to parapet, ridgeline and eave, porch roof, etc., as applicable); a professional survey of building heights may be required by Commission staff
- For front porch projects, a streetscape site plan for the subject block or blocks, including the proposed project, and with all front and side setbacks shown to porch and building faces; a professional survey of setbacks for the subject blocks may be required by Commission staff
- Typically for (but not limited to) rooftop additions, dormers, skylights and roof decks, information on the visibility of the proposed work from the public way such as additional photo views, sight-line drawings, on-site mock-ups, existing and proposed renderings, perspective drawings, and/or, for particularly complex projects, massing models
- If the historic condition or configuration is unclear from the existing conditions, archival materials, historical information, and physical evidence, as available and applicable to the proposed work, or information on comparative historic conditions, e.g., similar properties in a landmark district or designed by the same architect

Signage Requiring City Council Approval

☐ Existing and proposed drawings, including existing site plan, elevations, sections, details, information on materials, method of attachment, any illumination, raceways or conduit, etc.

☐ Photographs of the subject property

☐ Zoning code analysis and any building code issues/assumptions regarding the proposed work

Driveways and Curb Cuts

☐ Existing site plan or site survey

☐ Photographs of the subject property and other information on existing conditions

☐ Proposed site plan with dimensioned driveway and curb cut/apron widths

☐ Contextual information such as streetscape photographs and plans of the subject block or blocks, both sides of the street and including the subject property, showing existing conditions

☐ Any Chicago Department of Transportation (CDOT) or zoning code issues/assumptions regarding the proposed work

Demolition

☐ Existing site plan or site survey

☐ Photographs and information about the subject property, such as date of construction, information on alterations and/or additions, to the extent known, etc.

☐ Narrative with analysis of how the proposal meets the Criteria for Determining a Contributing Building within a Landmark District (Article III, G4, of the Commission's *Rules and Regulations*)

☐ Information on proposed replacement project, if available

Permit Review Committee – 2020 Submittal Schedule

The chart below shows the submittal deadlines for an applicant's permit review documentation and the meeting dates for the Permit Review Committee. These dates are accurate as of the date of the publication of this document. Please check the Commission's website for any updates to this chart.

Initial Submittal Deadline for Historic Preservation Staff Review	Final Submittal Deadline for Permit Review Committee	Permit Review Committee Meeting Date
Friday, October 25	Friday, November 8	December 5, 2019
Friday, November 22	Friday, December 6	January 9, 2020
Friday, December 27	Friday, January 10	February 6
Friday, January 24	Friday, February 7	March 5
Friday, February 21	Friday, March 6	April 2
Friday, March 27	Friday, April 10	May 7
Friday, April 24	Friday, May 8	June 4
Friday, May 29	Friday, June 12	July 9
Friday, June 26	Friday, July 10	August 6
Friday, July 24	Friday, August 7	September 3
Friday, August 21	Friday, September 4	October 1
Friday, September 25	Friday, October 9	November 5
Friday, October 23	Friday, November 6	December 3
Friday, November 20	Friday, December 4	January 2021 (TBD)

Submittal Deadlines

Submission by the above deadlines does not guarantee that a project will be placed on the Permit Review Committee agenda for a particular meeting date. Placement on the agenda is at the discretion of Commission staff and depends on the receipt of a **complete** submittal package and agenda availability for the particular meeting.

Community Review

In the interest of greater public awareness regarding proposed projects that will be reviewed by the Permit Review Committee, the Commission encourages applicants to provide the applicable local community group with information about the project in advance of the scheduled Permit Review Committee meeting. Applicants may obtain the name and contact information for the applicable local community group from Commission staff. The community groups and other interested entities and individuals are welcome to submit written comments to the Permit Review Committee prior to the applicable meeting and to attend the meetings.

CHICAGO **LANDMARKS**



PERMIT REVIEW COMMITTEE SUBMISSION – Project Information Form

Project address .....

Landmark/Landmark district .....

Project description.....

.....

.....

.....

.....

Applicant (owner/tenant).....

Company.....

Address.....

City/State/Zip code .....

Phone..... Fax…… Email…….....

Architect/Designer .....

Company.....

Address.....

City/State/Zip code .....

Phone..... Fax…… Email…….....

Primary Contact Person.....

Phone..... Fax…… Email…….....

COMMISSION ON CHICAGO LANDMARKS

THE U.S. SECRETARY OF THE INTERIOR'S STANDARDS FOR REHABILITATION OF HISTORIC BUILDINGS

36 C.F.R ' 67.7 (2001)

and

GUIDELINES FOR ALTERATIONS TO HISTORIC BUILDINGS AND NEW CONSTRUCTION

Adopted by the Commission on Chicago Landmarks on
March 4, 1992

CITY OF CHICAGO
RAHM EMANUEL, MAYOR

David L. Reifman, Commissioner
Department of Planning and Development

Patricia A. Scudiero, Managing Deputy Commissioner
Bureau of Zoning and Land Use

Rafael M. Leon, Chair
Commission on Chicago Landmarks

The Commission on Chicago Landmarks was established in 1968 by city ordinance, and was given the responsibility of recommending to the City Council that specific landmarks be preserved and protected by law. The ordinance states that the Commission, a nine-member board appointed by the Mayor and City Council, can recommend any area, building, structure, work of art, or other object that has sufficient historical, community, or aesthetic value. Once the City Council acts on the Commission's recommendation and designates a Chicago landmark, the ordinance provides for the preservation, protection, enhancement, rehabilitation, and perpetuation of that Landmark. The Commission assists by carefully reviewing all applications for building permits pertaining to the designated Chicago Landmarks. This insures that any proposed alteration does not detract from the qualities that caused the landmark to be designated.

THE SECRETARY OF THE INTERIOR=S STANDARDS FOR REHABILITATION

The Rules and Regulations of the Commission on Chicago Landmarks state that the U.S. Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings (pages 1-3) and other guidelines adopted and published by the Commission (pages 4-10) govern the Commission in evaluating the effect of proposed work in a permit application. Please note that pages 1-2 of this booklet only contain the Secretary's Standards. For copies of the associated Secretary's Guidelines, please see page 3.

Introduction to the Standards

The Secretary of the Interior is responsible for establishing standards for all programs under Departmental authority and for advising Federal agencies on the preservation of historic properties listed in or eligible for listing in the National Register of Historic Places.

The Standards for Rehabilitation (codified in 36 C.F.R. ' 67 for use in the Federal Historic Preservation Tax Incentives program) address the most prevalent treatment. "Rehabilitation" is defined as "the process of returning a property to a state of utility, through repair or alteration, which makes possible an efficient contemporary use while preserving those portions and features of the property which are significant to its historic, architectural, and cultural values."

Initially developed by the Secretary of the Interior to determine the appropriateness of proposed project work on registered properties within the Historic Preservation Fund grant-in-aid program, the Standards for Rehabilitation have been widely used over the years--particularly to determine if a rehabilitation qualifies as a Certified Rehabilitation for Federal tax purposes. In addition, the Standards have guided Federal agencies in carrying out their historic preservation responsibilities for properties in Federal ownership or control; and State and local officials in reviewing both Federal and nonfederal rehabilitation proposals. They have also been adopted by historic district and planning commissions across the country.

The intent of the Standards is to assist the long-term preservation of a property's significance through the preservation of historic materials and features. The Standards pertain to historic buildings of all materials, construction types, sizes, and occupancy and encompass the exterior and interior of the buildings. They also encompass related landscape features and the building's site and environment, as well as attached, adjacent, or related new construction. To be certified for Federal tax purposes, a rehabilitation project must be determined by the Secretary to be consistent with the historic character of the structure(s), and where applicable, the district in which it is located.

The Secretary of the Interior's Standards

(1) A property shall be used for its historic purpose or be placed in a new use that requires minimal change to the defining characteristics of the building and its site and environment.

(2) The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.

(3) Each property shall be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or architectural elements from other buildings, shall not be undertaken.

(4) Most properties change over time; those changes that have acquired historic significance in their own right shall be retained and preserved.

(5) Distinctive features, finishes, and construction techniques or examples of craftsmanship that characterize a historic property shall be preserved.

(6) Deteriorated historic features shall be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature shall match the old in design, color, texture, and other visual qualities and, where possible, materials. Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence.

(7) Chemical or physical treatments, such as sandblasting, that cause damage to historic materials shall not be used. The surface cleaning of structures, if appropriate, shall be undertaken using the gentlest means possible.

(8) Significant archeological resources affected by a project shall be protected and preserved. If such resources must be disturbed, mitigation measures shall be undertaken.

(9) New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.

(10) New additions and adjacent or related new construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

ADDITIONAL INFORMATION

The Department of the Interior publishes *The Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings.* Copies may be purchased from the U.S. Government Printing Office by calling toll-free at 1-866-512-1800 or from their online bookstore at **http://bookstore.gpo.gov** The stock number is 024-005-01061-1.

A complete illustrated version of *The Secretary of the Interior's Guidelines for Rehabilitating Historic Buildings*, as well as related additional technical preservation information and case studies, can also be found at the National Park Service website:
http://www.cr.nps.gov/hps/tps/tax/rhb/

COMMISSION ON CHICAGO LANDMARKS
GUIDELINES FOR ALTERATIONS TO HISTORIC BUILDINGS AND NEW CONSTRUCTION

All work on designated Chicago Landmarks requiring City-issued permits is reviewed by the Commission on Chicago Landmarks in order to protect and enhance the landmark qualities of the property. All properties, including vacant lots, within designated landmark districts, as well as individually designated buildings, fall under this review which is mandated by the ***Municipal Code of Chicago (2-120-740)***. Decisions of the Commission are enforceable under law.

Landmark qualities are defined by the Commission as **significant historical or architectural features**. In the case of landmark districts, these features are confined to the exterior aspects of the property. Significant features define the specific qualities of each property, such as size, shape, design, detail, and materials, that contribute to its historic and architectural character. Significant features may vary from building to building or, in a district, may be common elements shared by many or all buildings such as the scale of a building or its location on the lot relative to neighboring buildings and the street.

Usually, significant features are those aspects of a property that are readily visible from the public way. A building=s side or rear elevation that is less visible or not visible at all is generally less significant. However, these secondary elevations as well as rear coach houses or other less visible features of a property are significant features if they help to define the history and architecture of the property or district. The Commission's review and approval, or disapproval, of permit applications is intended to protect and enhance *all* significant historical or architectural features while allowing properties to be adapted for changing needs.

Properly and consistently maintaining significant features is the surest way of conserving landmarks. It is better to maintain something than to repair it later on because of improper maintenance or neglect; to repair rather than replace; and to replace in kind rather than redesign. This is the basic premise behind "The Secretary of the Interior's Standards for Rehabilitation," listed at the beginning of this document, which the Commission uses as a guide to evaluate the appropriateness of proposed work. The procedures and criteria for permit review are fully outlined in the Commission's *Rules and Regulations*, Article IV "Permit Review." In addition to these, the Commission has adopted policies regarding many aspects of rehabilitation work. Some of these policies that address the most common types of rehabilitation work are outlined below and can be helpful in planning work on historic structures. Although intended here primarily for residential structures and historic districts, the underlying policies of the guidelines, in most cases, are applicable to non-residential structures. Because no two situations are exactly alike, each application of criteria and policy must be done on a case-by-case basis; however, these policies will identify some of the Commission's concerns and the generally accepted preservation approach to specific rehabilitation problems.

The City recognizes the difficulties inherent in the rehabilitation of historic properties and, in particular, how building, zoning, or other codes may sometimes conflict with preservation concerns. Provisions within the Building Code [Sections 34 (13-200-100) and (13-200-110)] and Zoning Ordinance [Section 11.7A-3.(9)] allow their respective administrators discretion in applying these regulations to landmark properties. There are also two incentive programs for the rehabilitation of historic properties: The federal government offers an investment tax credit for a certified rehabilitation of historic properties that are income producing; and the State of Illinois allows an eight-year property tax assessment freeze for a certified rehabilitation of historic single-family, or condominium unit, owner-occupied property.

The Commission's staff is available to define the significant features of a property, explain and interpret policies, and provide information about the tax credit and property tax freeze incentives for rehabilitating historic properties. The Commission urges anyone planning a rehabilitation project to contact its staff preservation architects at (312) 744-3200, as soon as possible in the planning process to discuss and review proposed work.

ADAPTIVE REUSE. The Secretary of the Interior's Standard Number One states: "A property shall be used for its historic purpose or be placed in a new use that requires minimal change to the defining characteristics [that is, significant historical or architectural features] of the building and its site and environment." Adapting the use of a building from retail to residential or vice versa, for instance to meet new needs has played a significant role in preserving historic structures. The Commission has no jurisdiction over the use of a property; land use is regulated by the Zoning Ordinance of the City of Chicago. However, the rehabilitation of a property to accommodate a new use does fall within the Commission's purview of seeking to preserve and enhance its significant features. As an example, in adapting a storefront structure to residential use, a significant architectural feature, namely the configuration, design and material of the storefront, must be retained despite the new residential use. Design solutions for adapting buildings to different uses must provide for the retention and rehabilitation of significant features.

ADDITIONS. Working within the existing envelope of an historic structure in order to accommodate space needs is always preferable to building an addition. Additions will be allowed *only* if they do not alter, change, obscure, damage, or destroy any significant features of the landmark or district. Of particular concern are the effects of an addition on a building's historic relationship to its site; on a building's size, shape, and roof line; and on individual design details, elements, or materials which constitute all or part of a building's significant features. If an addition is appropriate, its design will be guided by the criteria for new construction (see "New Construction").

AWNINGS AND CANOPIES. Traditionally, awnings and canopies have been used to shelter people and buildings from the summer sun and inclement weather. They are two elements of a larger passive system, which includes blinds, shutters, interior transoms, and even trees and shrubs, which provided relief from excessive weather prior to the introduction of mechanical

ventilation and air-conditioning. Awnings and canopies are allowed on historic structures when they are appropriate to the building, employed for traditional reasons (shelter), and use traditional shapes, forms and materials. The overall size, shape, and projection from the building must be in proper proportion and scale to the building and be contained within the window or door opening that they shelter. They must not obscure or spread out over adjacent wall surfaces. In most instances, the only acceptable material for awnings and canopies is canvas; exceptions will be considered if appropriate for historic reasons. Signs or lettering should be kept to a minimum, most appropriately a street number on canopies. The addition of logos or names for business identification will be considered on a case-by-case basis, but in no case will they dominate the visual character of the awning or canopy to which they are attached. Awnings and canopies used for the sole purpose of advertising and unrelated to their functional purpose are not acceptable (see "Signs").

CLAPBOARDS. Many historic frame buildings are covered by newer, supposedly maintenance-free, synthetic siding. Hidden beneath asphalt or asbestos shingles and, more recently, aluminum or vinyl siding are often the original wood clapboards or shingles, corner boards, and accompanying trim that are critical features of frame construction. Often this original material is in good-to-excellent condition, although in need of paint. Original siding must be retained and repaired rather than replaced with new material where restoration is feasible. Where original elements have been removed and replacement is necessary, the size and proportions of the missing elements must be duplicated. The outlines of missing pieces can often be deduced from the markings these materials have left on the underlying sheathing boards, from old photographs, or from similar structures in the area which have retained their original materials. When restoring recently uncovered wood, it is important to allow the old wood to weather somewhat before refinishing. Three or four months of exposure prior to painting will allow for much greater adhesion of paint to the wood surface and reduce the potential for paint failure.

Aluminum, vinyl, or other non-traditional siding materials are not appropriate for historic structures. Aside from aesthetic and historical reasons, synthetic sidings, because they are impermeable, can foster beneath their surfaces serious material and structural decay, which being out of sight, goes uncorrected. This unchecked damage can have serious and expensive consequences (see "Millwork").

CURB CUTS. Accommodating cars in historic districts presents a serious threat in maintaining the ambience of such neighborhoods. Most city blocks, however, were built with alleys which allow for access to the rear of the lot where barns or coach houses were built; now garages can be located there. New curb cuts along street frontages to allow for parking in the front of the property, or driveways leading to the side or rear yard, are not acceptable in historic districts where curb cuts are not characteristic of the original development. Such cuts erode the historic pedestrian scale and character of districts. In addition, they exacerbate the parking problem by removing curb side parking spaces.

DEMOLITION. The purpose of designating landmark districts is to conserve the historic building stock and encourage maintenance, repair, and restoration. Demolition is not a means toward this end. The Commission recognizes that in a few RARE situations demolition may be acceptable when a structure does not contribute to the landmark qualities and character of a district or is an intrusion on that character. Also, a building may be damaged beyond any reasonable means of repair. The criteria established to evaluate demolition applications are included in the Commission's *Rules and Regulations*, as are criteria for considerations of economic hardship.

ENTRANCES. Houses in Chicago's older inner city districts typically were set on high bases. Often a full story above grade, the entrance to the main floor was reached by a broad staircase. This main floor is often considered the second floor today, the staircase having been removed and the entrance relocated to street level. Removing staircases to relocate the entrance is not appropriate. When planning rehabilitation work on houses where this significant feature has been removed, consideration should be given to restoring the main floor entrance and staircase (see "Millwork" and "Stairs").

EXCAVATIONS. Owners are sometimes prompted to excavate front yards in order to provide additional light, ventilation, or patio space for ground floor/basement apartments. These excavations are inappropriate and destroy the historic relationship of a building to its site and the street. Front yard excavations are not permitted in historic districts. However, where original light wells or service courts exist and are significant features of the original design, they must be retained.

FENCES. In most of Chicago's historic districts, front yard fences were used for ornamental effect rather than security. Often no more than a low stone curb edged the front yard along the sidewalk, demarcating private from public property. Fences were generally composed of ornamental iron pickets between cast-iron posts, seldom more than three feet high. Most of these fences no longer survive; where they do, it is important to repair and maintain them. New fences should be designed to complement the character of the property to be enclosed. In most cases, they should be three feet or less in height and of simple design. Solid walls of masonry or wood and tall metal fences are almost always inappropriate and will not be approved.

INAPPROPRIATE CHANGES MADE IN THE PAST. Many buildings have been altered over time; often these alterations represent inappropriate changes. When rehabilitation work is being undertaken, consideration should be given to removing inappropriate additions and changes, restoring the building to its original design and character. Existing situations that are inappropriate may be maintained if no substantial work is to be undertaken on them. However, existing changes that are inappropriate may not be retained if they are to be rebuilt or substantially altered.

MILLWORK. The manufacture of doors, sashes, moldings, and other wood products (millwork) relied almost exclusively on solid lumber prior to World War II. Using tools and

techniques developed by woodworkers over hundreds of years, a seemingly endless variety of moldings, paneling, and trim evolved. Anyone who has ever tried to match a molding or a paneled door is all too aware of the choices. Intricate millwork can be found on even the simplest nineteenth-century cottage, and millwork design and craftsmanship is often the most significant architectural feature of a house. Every effort should be made to maintain and repair original millwork: stripping off successive layers of paint to reveal detail; regluing panels and frames; consolidating deteriorated wood; replacing worn parts, such as an overabundance of holes left by previous door locks and handles, by splicing in new wood (a "dutchman"); and properly finishing with a protective coat of paint or varnish can restore unique but seemingly irretrievable millwork to most houses (see "Clapboards").

NEW CONSTRUCTION. Some historic districts provide an opportunity for new construction. Dealing sensitively with the district=s historic resources is of critical importance when designing infill buildings. The Commission encourages good contemporary design that respects the district=s existing architectural and historic qualities, but does not necessarily replicate historic designs. Of particular concern are the issues of siting, size, shape, scale, proportion, materials, and the relationship of these to the prevalent character of the immediate neighbors and the district. Replication of original designs may be appropriate in some cases, for example, in replacing a missing unit in a group of row houses.

PAINT. Because a permit is not required, painting and paint color do not fall within the Commission's jurisdiction. However, paint can have a profound effect upon the appearance of a building and an impact on neighboring buildings. A few words of caution: masonry buildings should not be painted. Aside from the fact that historically they were rarely painted, painting a masonry building creates a continuing maintenance problem. Painting seals an otherwise porous material, trapping moisture in the masonry; once painted, periodic repainting is required. On the other hand, wood and metals other than lead and copper should be well protected by a good coat of paint. What color to paint a building is a more subjective matter. Many paint manufacturers today market appropriate period colors. It is also possible through paint analysis to determine the original colors used on a building. Duplicating the original colors through analysis is the preferred choice. The Commission's staff can assist property owners in determining original colors.

PORCHES. Front porches range in design from the common stoop to elaborate three-dimensional constructions, distinguished by their architectural style and craftsmanship. Original porches should be preserved through vigilant maintenance and repair because they are, more often than not, built of materials and in shapes and forms more susceptible to weathering than the buildings to which they are attached. Also, porches are decorative rather than strictly functional features and were never enclosed. They did not function as storm vestibules; most nineteenth-century houses have entrance foyers which serve this function. Front porches should not be enclosed. Erecting a new porch may or may not be appropriate depending on the design and character of the house. New porches, where appropriate, should be designed to be complementary, replicating the size, shape, and forms of the original porch.

RAISING STRUCTURES. Enlarging buildings by raising them and adding a new first floor was common at one time. Many of the cottages in the Old Town Triangle District, for example, were originally one and one- half stories high and set on wood pilings which were later replaced by masonry ground floor foundations, thus making them two and one- half stories high. Despite the historic precedents, raising structures in historic districts today is no longer appropriate because their existing condition is the historic one which the landmark designation seeks to conserve.

ROOFS. Roofs and roof lines are major elements which give buildings their picturesque silhouettes and characterize many of the building types and architectural styles of the late nineteenth-century. The gable roof of the frame cottages with which Chicago was rebuilt immediately after the fire of 1871 gives to them their characteristic shape. Alterations to historic roofs and roof lines are inappropriate. Additions to roofs that change characteristic roof shapes and lines will not be approved (see "Additions"). City houses, because they are not freestanding in a landscape, tend to have simplified roof lines; however, even the flat roof of the typical city house can be a most telltale feature. Its street face, the ubiquitous cornice of brackets, rosettes, and dentils, identifies its architectural style even if all other design elements are nondescript. A variety of gables, dormers, turrets, mansards, and more elaborate roof forms are found in the city. Roof shapes and materials are highly exposed to the elements. Good maintenance and repair are essential, particularly since many historic materials are today very expensive or more difficult to obtain. Materials such as copper and slate have extremely long life-spans when properly maintained; their use is often decorative, with the bulk of the roof not being visible and made of less expensive materials. If these materials deteriorate beyond repair, they must be replaced. Man-made products that approximate the texture, scale, and color of natural materials are available to a limited extent, but it is always better to replace with the original materials.

SANDBLASTING. The use of sandblasting or other abrasive and/or corrosive methods to clean buildings of paint or accumulated grime is not allowed. These methods destroy materials by eroding their hard exterior surfaces, exposing their softer interiors which are then subject to accelerated deterioration. There are acceptable alternatives to sandblasting for cleaning masonry, such as chemicals or water.

SIGNS. The Commission recognizes the need for commercial establishments to advertise. Such advertising has a long and rich history in America, one that has at times elevated the sign board to an art form. Conversely, signs on landmarks or in landmark districts can be a source of visual clutter when the effectiveness of the sign is equated with its size and flashiness, rather than its compatibility to the historic architectural character of the landmark or district. A sign's location, size, material, and means of illumination are areas of concern. Storefront structures often were designed to accommodate signs. The appropriate location in these cases is the one originally intended: typically for nineteenth-century buildings, this is the horizontal band above the storefront windows and below the second-story windows. In cases where the original sign location is not evident, the best location, and most likely the intended one, is within the glazed

area of the storefront window so that the building frames the storefront without being obscured. Signs should be mounted parallel to and flush with the plane of the storefront. Signs projecting over the sidewalk, perpendicular to the storefront, will be considered on a case-by-case basis. Bigger is not better when it comes to the size of the sign. The sign should be of a size appropriate and proportional to the storefront and building on which it is located. Traditional materials wood, metal, paint are preferred materials. Historically, most business signs were silver- or gold-leafed, or painted letters on glass. Lighting for signs should be external; signs should not be light boxes. Lighting elements such as neon tubing and exposed bulbs will be reviewed on a case-by-case basis. Awnings and canopies are not appropriate places for advertising (see "Awnings").

STAIRS. As previously stated under "Entrances," many Chicago houses are set on high bases and are reached by broad, tall staircases that are a characteristic feature of their design. Although some houses, particularly more elaborate ones, have stone stairs, most have stairs built of wood treads with closed wood risers. The staircase may or may not be enclosed below to provide basement access and storage. Because wood is readily subject to deterioration, proper maintenance is important in prolonging the life of wood elements. Replacing wood stairs with concrete or other materials is inappropriate. Replacement must be in kind. Stair railings typically were bent pipe rails with cast-iron newels and balusters. These features must be retained where they survive. New railings, if needed, should match the original rail system in design.

WINDOWS. Windows are frequently the most difficult aspect of any rehabilitation project. The first and best answer to the question of how to treat windows is not to replace them but rather to retain and repair the existing sash and frames. Where this is not possible, replacing only deteriorated parts an new sill or a sash for instance is preferable to total replacement. If total replacement is unavoidable, the replacement windows must match the historic windows in design and operation, material, glass size, muntin arrangements, profiles, and trim such as brick mold and sill. Seemingly minor changes in these elements can greatly alter the appearance of an historic building.

Often, window replacement is dictated by concerns for energy conservation, particularly replacing single-glazed sash with double-glazed sash. A wide variety of double-glazed units are available, some designed especially for historic buildings. However, properly weather-stripped, single- glazed sash can greatly reduce or eliminate air infiltration between sash and frame where most energy is lost. The cost of weather stripping is nominal compared to the price of replacement windows, yet the effect can be considerable.

[Adopted March 4, 1992]

COMMISSION ON CHICAGO LANDMARKS

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James M. Houlihan, Vice Chairman
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The Commission is staffed by the:

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C. Submission Forms and Affidavits

To be submitted with proposal

C1. Proposal Summary Form

C2. Sources and uses of funds statement

C3. Construction budget

C4. Revenue projections

C5. ***UPDATED*** Offer to Purchase

C6. Confidentiality Agreement

Editable forms / spreadsheets available on RFP download website

Request For Proposals
Proposal Summary Form

Applicants: Complete this form and place in the first section of the response, immediately following the cover letter.

Project Address:	*As identified on the RFP.*
Applicant:	*Name of applicant entity.*
Principals:	*Names of principal owners of applicant entity.*
Development Team:	*Identify architect, attorney, GC if known, and consultants.*
Purchase Price:	*Your bid price.*
Purchase Parcels:	*For multi-parcel RFPs only: if allowed under the RFP, identify which of the RFP parcels are proposed for purchase.*
City Assistance Requested:	*Include TIF request or other requests for City financial assistance. Identify the type and amount of each type of assistance.*
Total Project Cost:	*Total development cost.*
Estimated Completion Date:	*Include date.*
Proposed Use:	*Identify proposed use of the property.*
Zoning:	*Indicate if a zoning change or planned development classification is required for the project.*
Proposed Project:	*Briefly describe the project including number and type of units, exterior building materials, number of stories, floor area, amenities, number and type of parking spaces, etc.*
Public Benefits:	*Identify public benefits of the project such as affordable housing, senior housing, 'green' elements, new retail services, fiscal benefits, public open space, etc.*

Attachment A

SOURCES AND USES OF FUNDS

Project Name: _____
Developer: _____
Date: _____

Notes: Enter data only in Columns C and H. Column C figures will total automatically. The totals of sources of funds and uses of funds must match exactly.

SOURCES	Amount	% of Total Sources	
Equity			
Cash Equity	$ -	#DIV/0!	
Real Estate	$ -	#DIV/0!	*Source:*
Other Equity	$ -	#DIV/0!	*Source:*
Total Equity	**$ -**	**#DIV/0!**	
Loans			
Bank Loan	$ -	#DIV/0!	*Terms:*
Mezzanine Loan	$ -	#DIV/0!	*Terms:*
Other Financing	$ -	#DIV/0!	*Terms:*
Total Loans	**$0**	**#DIV/0!**	
Sales Revenue	**$ -**	**#DIV/0!**	*Source:*
Government Assistance			
Land Write-Down	$ -	#DIV/0!	
TIF	$ -	#DIV/0!	
Tax Credits	$ -	#DIV/0!	*Source:*
Grants	$ -	#DIV/0!	*Source:*
Other	$ -	#DIV/0!	*Source:*
Total Assistance	**$ -**	**#DIV/0!**	
Total Sources	**$ -**	**#DIV/0!**	

USES	Amount	$ per SFof Building Area*
Land Acquisition	$ -	#DIV/0!
Demolition	$ -	#DIV/0!
Site Preparation	$ -	#DIV/0!
Landscaping & Paving	$ -	#DIV/0!
Hard Costs	$ -	#DIV/0!
Equipment	$ -	#DIV/0!
Furniture and Fixtures	$ -	#DIV/0!
Soft Costs	$ -	#DIV/0!
Total Uses	**$0**	**#DIV/0!**

** Building area = 0 square feet*

Attachment A

DETAILED CONSTRUCTION BUDGET

Project Name: _____
Developer: _____
Date: _____

Note: Enter data only in Column C. Totals will be calculated automatically.

	Amount	$ per SFof Building Area*	% of Total Project Costs	Comment:
Land Acquisition				
City Land	$ -	#DIV/0!	#DIV/0!	
Other Property	$ -	#DIV/0!	#DIV/0!	
Total Land Acquisition	**$0**	**#DIV/0!**	**#DIV/0!**	
Demolition	$ -	#DIV/0!	#DIV/0!	
Site Preparation				
Utilities	$ -	#DIV/0!	#DIV/0!	
Environmental	$ -	#DIV/0!	#DIV/0!	
Foundation Removal	$ -	#DIV/0!	#DIV/0!	
Grading	$ -	#DIV/0!	#DIV/0!	
Other	$ -	#DIV/0!	#DIV/0!	
Total Site Preparation	**$0**	**#DIV/0!**	**#DIV/0!**	
Landscaping & Paving	**$ -**	**#DIV/0!**	**#DIV/0!**	
Hard Costs				
Construction	$ -	#DIV/0!	#DIV/0!	
General Contractor Fee	$ -	#DIV/0!	#DIV/0!	
General Conditions	$ -	#DIV/0!	#DIV/0!	
Hard Cost Contingency	$ -	#DIV/0!	#DIV/0!	
Total Hard Costs	**$0**	**#DIV/0!**	**#DIV/0!**	
Equipment	**$ -**	**#DIV/0!**	**#DIV/0!**	
Furniture and Fixtures	**$ -**	**#DIV/0!**	**#DIV/0!**	
Soft Costs				
Architect Fee	$ -	#DIV/0!	#DIV/0!	
Project Management	$ -	#DIV/0!	#DIV/0!	
Developer Fee	$ -	#DIV/0!	#DIV/0!	
Legal/Accounting	$ -	#DIV/0!	#DIV/0!	
Leasing Commissions	$ -	#DIV/0!	#DIV/0!	
Market Studies	$ -	#DIV/0!	#DIV/0!	
Financing Fees	$ -	#DIV/0!	#DIV/0!	
Financing Interest	$ -	#DIV/0!	#DIV/0!	
Real Estate Taxes	$ -	#DIV/0!	#DIV/0!	
Insurance	$ -	#DIV/0!	#DIV/0!	
Appraisal	$ -	#DIV/0!	#DIV/0!	
Testing	$ -	#DIV/0!	#DIV/0!	
Permits	$ -	#DIV/0!	#DIV/0!	
Other Soft Costs	$ -	#DIV/0!	#DIV/0!	
Soft Cost Contingency	$ -	#DIV/0!	#DIV/0!	
Total Soft Costs	**$0**	**#DIV/0!**	**#DIV/0!**	
Total Project Costs	**$ -**	**#DIV/0!**	**#DIV/0!**	

** Building area = 0 square feet*

Attachment A

REVENUE PROJECTIONS - FOR SALE PROJECT

Project Name: _____
Developer: _____
Date: _____

Note: Enter data only in shaded cells.

GROSS SALES REVENUE

Housing Units:

	Unit Type	Number	Unit Price	Total
A		0	$ -	$ -
B		0	$ -	$ -
C		0	$ -	$ -
D		0	$ -	$ -
E		0	$ -	$ -
F		0	$ -	$ -
G		0	$ -	$ -

Total Housing Unit Sales	0	#DIV/0!	$0
Housing Unit Upgrades			$ -

Parking Spaces:

	Type	Number	Price	Total
A		0	$ -	$0
B		0	$ -	$0
Total Parking Sales		0	#DIV/0!	$0

Commercial Space Value	Size-sf	Price/sf	Value
	-	$0	$ -

TOTAL GROSS SALES REVENUE $ -

COST OF SALES

Commissions	0.0%	$ -
Closing Costs	0.0%	$ -
Other Costs	0.0%	$ -
TOTAL COST OF SALES	0.0%	$ -

NET SALES REVENUE $ -

Less Total Project Costs $ -

NET PROFIT $ -

INDICATORS:

Profit as % of Gross Sales:	#DIV/0!
Profit as % of Total Project Costs:	#DIV/0!

Attachment A

REVENUE PROJECTIONS - RENTAL PROJECT

(Sample Cash Flow Projection)

Project Name: _____

Developer: _____

Date: _____

Note: Enter data only in shaded cells.

Vacancy Rates				
Years	1	2	3	4+
Commercial	0%	0%	0%	0%
Residential	0%	0%	0%	0%

Growth Rates				
Years	1	2	3	4+
Commercial Rent	0%	0%	0%	0%
Residential Rent	0%	0%	0%	0%
Parking/Other Revenue	0%	0%	0%	0%
Operating Expense	0%	0%	0%	0%
Real Estate Tax	0%	0%	0%	0%
Capital Reserves	0%	0%	0%	0%

Mortgage	
Principal	$ -
Term (years)	-
Interest Rate	0.0%

Equity / Total Project Costs	
Total Equity	$ -
Total Project Costs	$ -

INCOME	SF	Rent/sf		YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	YEAR 7	YEAR 8	YEAR 9	YEAR 10	YEAR 11
Commercial Rent	-	$0.00	/yr.	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Commercial Expense Recoveries	-	$0.00	/yr.	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Residential Rent- Market Rate	-	$0.00	/mo.	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Residential Rent- Affordable	-	$0.00	/mo.	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Parking Revenue per space	-	$0.00	/mo.	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Other Revenue	-	$0.00	/yr.	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
GROSS POTENTIAL INCOME				**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
Commercial Vacancy				$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Residential Vacancy				$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
EFFECTIVE GROSS INCOME (EGI)				**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
EXPENSES	**SF**	**Cost/sf**												
Maintenance, Repairs, Utilities	-	$0.00		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Real Estate Taxes	-	$0.00		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Insurance	-	$0.00		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Management Fee	EGI	0%		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Professional Fees	-	$0.00		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Other Expenses	-	$0.00		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TOTAL EXPENSES				**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
NET OPERATING INCOME (NOI)				**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**
	SF	**Cost/sf**												
Reserves	-	$0.00		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	---
Other Capital Costs (insert for each year)				$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	---
Debt Service				#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	---
NET CASH FLOW before depreciation				**#NUM!**	**#NUM!**	**#NUM!**	**#NUM!**	**#NUM!**	**#NUM!**	**#NUM!**	**#NUM!**	**#NUM!**	**#NUM!**	---

Calculation of the Reversion	
Year 11 NOI	$0
Cap Rate (enter rate)	0.0%
Gross Reversion	#DIV/0!
Less Cost of Sale (enter rate)	2.0%
Net Reversion before Debt	#DIV/0!
Less Loan Balance	#NUM!
Net Reversion	**#DIV/0!**

Internal Rates of Return	
Overall IRR	#VALUE!
Equity IRR	#VALUE!

City of Chicago Dept. of Community Development 6/09

DATE: _____

OFFER
TO PURCHASE LAND FOR DEVELOPMENT
FROM
THE CITY OF CHICAGO
DEPARTMENT OF PLANNING AND DEVELOPMENT
ROOM 1000 CITY HALL
121 NORTH LASALLE STREET
CHICAGO, ILLINOIS 60602

1. ACKNOWLEDGMENT OF RECEIPT OF CONDITIONS

The Undersigned, as the "Offeror", has been furnished by the City of Chicago through its Department of Planning and Development ("City"), a copy of the form of agreement for the Sale and Redevelopment of Land ("Agreement") setting forth the terms and conditions under which property will be sold by the City. The Offeror has also been provided with a copy, or the opportunity to review a copy, of the pertinent Redevelopment Plan ("Plan") affecting the subject property.

2. PURCHASE PRICE

The Offeror offers and agrees to purchase from the City **[INSERT A CHECKMARK OR "X" IN THE SPACE THAT IDENTIFIES THE PACKAGE(S) FOR WHICH YOU ARE SUBMITTING A PROPOSAL AND THE PRICE YOU ARE OFFERING]**:

_____ **Package B1**, as described in the below chart, for the sum of **$**_____ .

_____ **Packages B1 and B2**, as described in the below chart, for the sum of **$**_____.

_____ **Package C**, as described in the below chart, for the sum of **$**_____.

The Package(s) that the Offeror has selected above, hereinafter, known as the "Property."

	Package B1	Package B2					Package C	
Phase II Lot No.	Lot 3	~ not platted as part of Englewood Square Phase II ~					Lot 4	Lot 5
PIN	20-17-431-034	20-17-431-001	20-17-431-002	20-17-431-003	20-17-431-004	20-17-431-005	20-17-431-035	20-17-431-036
Address	6204 S. Green Street	6215 S. Green Street	6217 S. Green Street	6219 S. Green Street	6221 S. Green Street	6223 S. Green Street	6231 S. Sangamon Street	914 W. 63rd Street
Size (acres)	1.406	0.1357	0.1042	0.1043	0.0695	0.0695	0.632	1.782
Shape	Irregular	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular	Irregular	Irregular
Location	Corner	Corner	Interior	Interior	Interior	Interior	Interior	Corner
Frontage	S. Peoria Dr: 277.52' S Green St: 123.50' W 63rd Pkwy: 20.00'	S. Peoria Dr: 121.12' S. Green St: 48.82'	S. Green St: 37.49'	S. Green St: 28.61'	None (S .Green Street vacated)	None (S. Green Street vacated)	W 63rd Pkwy: 417.27'	W 63rd St: 273.40' W 63rd Pkwy: 319.39'
Condition	Existing historic firehouse	Vacant (used for parking)	Vacant (used for parking)	Vacant (used for parking)	Vacant (used for parking)	Vacant (used for parking)	Open Space (underground stormwater vault)	Vacant
Zoning	C1-3	C1-3	C1-3	C1-3	C1-3	C1-3	C1-3	C1-3

In making this offer, the Offeror has given consideration to the terms and conditions of the Agreement and the restrictions of the Plan. In addition, the Offeror understands that the City is offering to sell the property "as is" and shall therefore make no representations concerning the soil and environmental condition of the property, and the City shall have no responsibility to clear the property of any improvements.

3. TERM OF OFFER:

It is agreed that this offer shall remain open for a period of ninety (90) days commencing with the final date for delivery of offers as specified in the advertisement for the Property, and shall remain in force thereafter until withdrawn by the Offeror in writing. It is expressly understood by the Offeror that the City at any time may reject any and all offers received by the City as result of the advertisement to sell the property and waive any information therein.

4. GOOD FAITH DEPOSIT:

Good faith deposit requirements:
Package B1: $37,500

Package B1 & Package B2: $41,700

Package C: $21,000

The Offeror transmits to the City with this Offer a cashier's or certified check or irrevocable letter of credit in the amount of **$_____ [INSERT THE APPLICABLE DOLLAR AMOUNT OF THE GOOD FAITH DEPOSIT FOR THE PACKAGE(S) YOU SUBMITTED A PROPOSAL]** payable to the City of Chicago. The City shall be under no obligation to deposit or invest the good faith deposit or pay interest thereon. If, during the time period commencing with the receipt of this Offer by the City until the expiration of the ninety (90) day period described in Paragraph 3 above, the Offeror rescinds this offer by written notice to the City, the City shall have the right to retain the good faith deposit as liquidated damages and shall be under no further obligation or duty to the Offeror. If this Offer is rejected by the City, the good faith deposit shall be returned by the City to the Offeror. In the event this Offer is accepted by the City, one half of the good faith deposit will be credited to the purchase of the Property at closing, and one half will be retained by the City until the construction of the improvements is completed to the satisfaction of the City in accordance with the terms and conditions of the Agreement to be executed by the City and the Offeror.

5. EXECUTION OF AGREEMENTS:

The Offeror acknowledges and understands that acceptance of this Offer by the City will be effective upon passage of an ordinance by the City Council approving the sale and the execution of the Agreement by the City. Failure of the Offeror to execute the Agreement within 30 days of its being tendered by the City to the Offeror shall constitute a default under the terms of this Offer, and the City may terminate all rights of the Offeror and retain the good faith deposit as the City's property. If the Offeror fails to complete the purchase of the property within the time frame provided for in the Agreement, through no fault of the City, the City shall have the right to declare a default under the terms of the Agreement. The City may consent to the extension of the closing date upon payment of a nonrefundable extension fee.

6. COVENANT AGAINST CONTINGENT FEES:

The Offeror warrants that no person or agency has been employed or retained to solicit or secure the acceptance of this Offer upon agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bona fide established commercial agencies maintained by the Offeror for the purpose of securing business. For any breach violation of this warranty, the City shall have the right to annul its acceptance of this offer, or if executed by the parties, the agreement, without liability to the Offeror. In the alternative, the City may choose to require the Offeror to pay, in addition to the purchase price, the full amount of such commission, percentage, brokerage, or contingent fee. Bona fide established

commercial agencies may include real estate brokers, investment brokers and others engaged in furnishing bona fide investment or brokerage services.

7. PROHIBITION AGAINST TRANSFER OF INTEREST

Prior to completion of the project, the Offeror may not agree to sell the property or any interest in it, or agree to assign the redevelopment project or any interest in it, without the prior written consent of the City.

8. WITHDRAWAL IN CASE OF INABILITY TO DELIVER POSSESSION:

The City reserves the right to refund the Good Faith Deposit to the Offeror and to rescind the sale of the Property at any time prior to conveyance of title in the event that the City is unable to deliver title and possession of the Property for any reason whatsoever.

Firm or Individual: _____

By: _____

Print Name: _____

Title: _____

Attest: _____

Print Name: _____

Business Address: _____

_____

_____

Telephone: _____

REQUEST FOR PROPOSALS
RESPONDENT CONFIDENTIALITY AGREEMENT

The undersigned hereby acknowledges the submission of a proposal to the Department of Planning and Development of the City of Chicago in response to the Request for Proposals for the purchase and development of (enter address).

I understand and agree that I will keep confidential the proposal and all other material, information or discussions related to the RFP. I will not share any material, information or discussions with any individual that has not signed a confidentiality agreement for the RFP.

Date: _____

Proposal Name: _____

Responding Entity: _____

Name: _____

Signature: _____

NOTE: Each principal, project manager and key team member identified in the proposal must sign and submit a confidentiality agreement.

D. Environmental Reports

D1. Phase I Environmental Assessment

D2. Comprehensive Site Investigation Report/Remediation Objectives Report/Remedial Action Plan (CSIR/ROR/RAP)

D3. Illinois Environmental Protection Agency (IEPA) – Conditional Approval of CSIR/ROR/RAP

D4. Response to IEPA Comment Letter/RAP Addendum, dated April 21, 2015

D5. Response to IEPA Comment Letter/RAP Addendum, dated April 30, 2015

D6. RAP Addendum Approval Letter

D7. Remedial Action Completion Report for Lots 2 and 4

D8. Final NFR Letter for Lots 2 and 4

D9. Limited Asbestos Survey Report, Vacant Engine Company 84

D10. Mold Investigation Report, Vacant Engine Company 84

D11. Hazardous Material Survey Report, Vacant Engine Company 84

D12. Limited Lead-Based Paint Building Survey, Vacant Engine Company 84

D13. Stormwater Vault As Built Operations and Maintenance (O&M) Plan

D14. Conditions Summary of Englewood Square Phase II Lots 3 and 5

environmental services, inc.

October 9, 2008

Mr. Sean Daly
Development Manager
The Daly Group
2803 Butterfield Road Suite 300
Oakbrook, Illinois 60523

Re: Phase I Environmental Property Assessment

Location: Northwest Corner of West 63rd and Halsted Streets
Chicago, Illinois

Project #: 8229-0608

Dear Mr. Daly:

Enclosed are the original and an electronic photocopy of the Phase I Environmental Property Assessment conducted on the above referenced location. This Report details the findings and conclusions of our evaluation.

As always, EPS Environmental appreciates the opportunity to have provided our services and looks forward to serving your future needs. Should you have questions concerning this Report, or have further need of our services, please do not hesitate to call.

Sincerely,

Samuel T. Bodine
Senior Project Manager

STB/lmh
Enclosures

7237 West Devon Avenue • Chicago, Illinois 60631
(773) 792-3090 Fax (773) 792-3091

environmental services, inc.

PHASE I ENVIRONMENTAL PROPERTY ASSESSMENT

Northwest Corner of West 63rd and South Halsted Streets
Chicago, Illinois

Prepared For:

The Daly Group
2803 Butterfield Road Suite 300
Oakbrook, Illinois 60523

Prepared By:

EPS Environmental Services, Inc.
7237 West Devon Avenue
Chicago, Illinois 60631

Samuel T. Bodine
Senior Projeet Manager

Reviewed By:

Peter N. Partipilo, C.H.M.M.
Senior Environmental Specialist

Project Number:

8229-0608

October 9, 2008

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FIGURES

Figure 1 - Property Location Map

Figure 2 - Property Sketch

APPENDICES

Appendix A - Proposal Between Client and EPS Environmental
Appendix B - Photographic Documentation
Appendix C - Environmental Database Information
Appendix D - Historical Information
Appendix E - EPS Environmental Qualifications
Appendix F - Geological Boring Logs

1.0 SUMMARY

EPS Environmental Services, Inc. (EPS Environmental) has performed a Phase I Environmental Property Assessment (Phase 1 Assessment) of the northwest corner of West 63rd and South Halsted Streets in the City of Chicago, Cook County, Illinois (Property) in conformance with the scope and limitations of the American Society for Testing and Materials (ASTM) Practice E 1527-05 and according to the standards and practices set forth in 40 Code of Federal Regulations (CFR) Part 312. Any exceptions to, or deletions from these practices are described in Section 2.3 of this report (Report).

This Phase I Assessment has revealed evidence of the following recognized environmental conditions[1] (RECs) in connection with the Property:

- Visual and olfactory evidence of petroleum hydrocarbon contaminated soil is present on the Property.

- There is a potential for a release (e.g., spills, overfills and/or leaks) of petroleum to have occurred from historical underground storage tanks (USTs), and negatively impacted Property soil/groundwater.

- There is a potential for a release (e.g., mismanaged, spilled, leaked and/or dumped) of hazardous materials and/or petroleum used in historical automobile repair operations to have occurred and negatively impacted underlying Property soil/groundwater.

Refer to Sections 4.2, 4.3, 6.1, 6.12, and 7.0 for additional discussion regarding these RECs. In addition, business environmental risks (e.g., suspect asbestos containing materials, potential lead-based paint, etc.) associated with the current or planned use of the Property is individually discussed in Section 6.0 of this report.

2.0 INTRODUCTION

EPS Environmental was retained to conduct the Phase I Assessment of the Property by The Daly Group (Client).

2.1 Purpose

The purpose of the Phase 1 Assessment was to identify readily apparent, potential sources of environmental liabilities associated with the Property and/or to qualify for landowner liability

[1] According to ASTM Practice E 1527-05, a recognized environmental condition (REC) means "the presence or likely presence of any hazardous substances or petroleum products on a Property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the Property or into the ground, ground water, or surface water of the Property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws." Moreover, according to the ASTM E 1527-05, a "historical recognized environmental condition" (HREC) is defined as a condition which in the past would have been considered a REC, but which may or may not be considered a REC currently.

protections under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) in conjunction with the user requirements as defined in 40 CFR Part 312.

2.2 Scope of Services

The scope of services agreed upon by the Client and performed by EPS Environmental is consistent with the recommendations set forth in the ASTM Standard Practice for Environmental Site Assessments (Standard E 1527-05) and according to the standards and practices set forth in 40 CFR Part 312. Moreover, potential environmental business risks are discussed in this Report, which include asbestos-containing material (ACM), suspect wetland vegetation, biological hazards/mold, lead-based paints, equipment containing hazardous or regulated substances and radon gas levels. It should be noted, any data gaps and/or *de minimis* concerns identified on the Property are discussed within the text of this Report.

The scope of services performed by EPS Environmental was set forth in the Proposal between the Client and EPS Environmental dated September 25, 2008 (Appendix A).

2.3 Limiting Conditions

The presence of parked automobiles, dumpsters and containers, miscellaneous debris, and dense vegetation limited observations in isolated areas of underlying exterior surfaces. Furthermore, EPS Environmental was not provided access to the Property buildings; however, a window survey was conducted for the East Property building. Moreover, the presence of parked automobiles, miscellaneous debris, dense vegetation, fencing, and dumpsters limited observations of the adjacent sites as viewed from the Property and public right-of-ways during the time of the site reconnaissance. Therefore, EPS Environmental makes no guarantees as to existing conditions within the Property buildings and/or of underlying surfaces that could not be readily inspected.

Sampling and an all-inclusive survey for the presence of suspect asbestos-containing material (ACM), lead based paint and/or biological hazards/mold were beyond the scope of services for this Phase I Assessment. A visual inspection for readily observable suspect ACM, deteriorated paint and discolored/stained areas of potential mold growth was conducted; however, the removal of physical or visual barriers or inaccessible areas such as pipe chases, interiors of machinery/equipment and "dead spaces," such as fully enclosed masonry vaults, was not conducted as part of this Phase I Assessment.

Due to time constraints, a response to the Freedom of Information Act (FOIA) request submitted to the Chicago Department of Environment for information regarding the Property has not been received at the time of this writing. However, EPS Environmental opines this data gap is not material to the extent that would alter the findings and conclusions of this report. In the event information is received that alters the Findings and Conclusions of this Report, it will be promptly forwarded to the Client.

Access to the rooftops of the buildings was not provided. Therefore, EPS Environmental makes no guarantees as to equipment, which may be present on the roof. However, EPS Environmental did not observe rooftop equipment of environmental significance as viewed from the ground.

Any other limiting conditions pertaining to this Phase I Assessment are described in associated Sections of this Report.

3.0 PROPERTY DESCRIPTION

3.1 Location and Legal Description

The Property is located on the northwest corner of West 63rd Street and South Halsted Street, approximately ¾-mile west of Interstate 90/94, in the City of Chicago, Cook County, Illinois. The Property is situated in a typical urban setting (mixed residential and commercial area). See Figure 1 - Property Location Map following the text of this Report. The legal description for the Property was not provided.

3.2 Description of Improvements On-site

3.2.1 Property Size

The Property consists of an irregularly shaped parcel of land encompassing approximately 13.69 acres. See Figure 2 - Property Sketch and Appendix D, Historical Information for a copy of the proposed site plan.

3.2.2 Structure

The Property is developed with one (1) approximate 24,000 square foot, one (1)-story commercial building and one (1) approximate 10,000 square foot, two (2)-story vacant fire station.

3.2.2.1 General Construction

The 50± year-old fire station and 30± year-old commercial building are constructed of masonry, steel, and wood.

3.2.2.2 Interior Finishes

Typically, the interior of the East Property building consists of drop-panel ceilings; gypsum board, concrete block, steel, and/or masonry walls; and wood, ceramic, vinyl-tiled and/or concrete floors.

3.2.2.3 Heating and Cooling Sources

The commercial building appears to be heated and cooled by natural gas-fired/electric-operated heating, ventilation, and air-conditioning (HVAC) units. As the fire station is vacant, it is currently neither heated nor cooled.

3.2.3 Remaining Grounds

The remaining grounds consist of grass and landscaping surrounding the Property buildings and along the north and west Property borders; concrete building foundations; and asphalt paved parking lots and driveways. Refer to Figure 2 - Property Sketch and Appendix B - Photographic Documentation, following the text of this Report.

3.2.4 Potable Water Source

The City of Chicago supplies drinking water from Lake Michigan to the Property and surrounding area. The water is collected and treated by the City of Chicago Municipal Water Treatment Plant. According to the Water Department, the water is tested periodically for contaminants, and is in compliance with all EPA Safe Drinking Water Act Regulations, unless a local drinking water advisory has been issued. In addition, no potable or groundwater-monitoring wells were reported or observed on the Property.

3.2.5 Wastewater/Stormwater Discharge

Wastewater and stormwater run-off within the City of Chicago are discharged into a combined sewer system. The effluent is collected and treated by the Metropolitan Water Reclamation District of Greater Chicago (MWRDGC). No petroleum sheens or unusual odors were noted in the stormwater sewers situated along the adjacent right of ways. No septic systems were reported or observed on the Property. Refer to Section 6.4 for additional discussion.

3.3 Current and Past Uses of the Property

3.3.1 Current Uses

The West Property building (fire station) is currently unoccupied and the East Property building is occupied by Women, Infants, and Children Program (WIC) center (grocery store for low-income families). No bulk quantities of hazardous materials or petroleum were present on the Property.

3.3.2 Past Uses

According to information obtained from the Property representative, Sanborn Fire Insurance Maps, review of a City Telephone Directory Abstract, and historical aerial photographs reviewed, the Property was formerly occupied by a numerous dwellings, storefronts, a theatre,

3.4.2 Past Uses

The surrounding sites have historically been utilized for residential, institutional and commercial purposes since development. See Section 4.3 for information on the historical use review regarding the adjacent sites.

4.0 RECORDS REVIEW

4.1 Physical Setting Sources

The following sources were reviewed to provide information on the topographic and geologic characteristics of the Property and surrounding area. Additionally, a county radon study was reviewed to provide statistics on the Property's potential radon risk.

4.1.1 U.S. Geological Survey 7.5 Minute Series Topographic Map

According to the Englewood Quadrangle map, the topography of the area is generally flat within a ⅛-mile radius of the Property.

4.1.2 Illinois State Geological Survey Circular #460, "Surficial Geology of the Chicago Region"

The Property is located on the Carmi Member of the Equality Formation. These Pleistocene Age deposits consist of largely quiet water lake sediments; dominantly well-bedded silt, locally laminated and containing thin beds of clay. Local lenses of sand and sandy gravel are present along ancient beaches.

4.1.3 Illinois State Geological Survey Circular #532, "Potential for Contamination of Shallow Aquifers from Land Burial of Municipal Waste"

The Property is located within the rating area B1. The rating denotes the capacities of earth material to accept, transmit, restrict or remove contaminants from waste effluent. In general, a B1 rating area contains sand and gravel less than 20 feet thick over relatively impermeable till or bedrock.

It should be noted, no documentation was provided or readily available regarding whether imported fill material was used on the Property during original construction, and/or whether there are hazardous materials and/or petroleum present in demolition debris that remains on the Property. As the nature and origin of the imported fill material, if any, is unknown, there is a potential for hazardous substances to be present in imported fill material underlying the Property. Therefore, due to the lack of comprehensive documentation regarding the nature and origin of imported fill material, if any, and lack of environmental regulations prior to existing mandates,

EPS Environmental can not render an opinion regarding the condition of the imported fill material, or potential effects on the Property's subsurface conditions.

Consequently, should future construction activities or subgrade utility work involve excavation and off-site disposal of imported fill material, the imported fill material may require waste characterization analysis to be properly disposed at a facility licensed to accept such waste, according to applicable federal, state, and local laws and regulations. As such, the imported fill material, if any, would be considered a business environmental risk (i.e., additional construction costs) in connection with the Property.

4.1.4 Test Pits

On October 3, 2008, EPS Environmental conducted vapor screening on soil/miscellaneous debris in 17 geo-technical test pits situated at various areas throughout the Property to determine whether petroleum hydrocarbons are present in demolition debris. It should be noted, demolition debris consisting of broken brick fragments, cinder and broken concrete were observed at the majority of locations during the test pit excavation investigation.

Soil samples were examined for visual signs of petroleum hydrocarbon contamination and/or the presence of unusual odors. Soil samples were placed in airtight plastic bags that were allowed to equilibrate to approximately 70° Fahrenheit. Headspace air in each sample bag was then screened with a Rae photo-ionization detector (PID) and the screening results were recorded on Geological Boring Logs (Appendix F). The PID records total concentrations of organic vapors; however, the instrument does not differentiate between types of organic vapors and is inconclusive in identifying specific contaminants.

PID screening results ranged from 0.5 to 134 parts per million (ppm) for the screened soil samples. Petroleum hydrocarbon odors were noted in samples collected from test pits TP-4, TP-7 and TP-9. ***The vapor survey identified elevated PID readings, coupled with visual and olfactory signs of petroleum hydrocarbons in Property soil. The presence of petroleum hydrocarbons in Property soil presents a REC in connection with the Property.*** See Appendix F for PID screening logs and Section 7.0 for further discussion.

4.1.5 Illinois Emergency Management Agency, "Status Report for Radon in Illinois" August 2006

The Property is located in Cook County in which 30% of samples tested had radon levels greater than 4.0 picocuries per liter (pCi/L). The United States Environmental Protection Agency (USEPA) has set a remedial action level of 4.0 pCi/L for residences. An average level of 3.6 pCi/L was detected among the 2,462 samples screened. This screening data is included as a guide to general background conditions, and should not be construed as site-specific data.

4.2 Federal and State Environmental Record Sources

Federal and State databases were reviewed by Environmental Data Resources, Inc. (EDR) for recorded environmental concerns on the Property and known sites within the Approximate Minimum Search Distance, as designated in the ASTM Standard E 1527-05. Refer to Appendix C - Environmental Database Information, for a copy of the EDR Report.

Property

The Property was identified on the Resource Conservation and Recovery Information System (RCRIS) database as a small quantity generator of hazardous waste (silver) and on the Facility Index Systems (FINDS) database likely due to the RCRIS listing under the facility name Walgreens #0170, 6250 South Halsted Street. It should be noted, no Resource Conservation and Recovery Act (RCRA) violations were denoted on the database listing. Provided the hazardous waste was properly handled, stored, and disposed, the RCRIS listing, in and of itself, should not present a readily apparent environmental concern to the Property. *As operations have ceased on the Property, EPS Environmental recommends the Property owner contact the USEPA to change their status to "no longer generating hazardous waste, out-of-business."*

The Property was identified on the Historical Auto Stations database under the facility names Hayes Auto Repairing, 6235 South Peoria Street and Ponstein Garage, 6245 South Peoria Street for the year 1928. Automobile repair operations include the use of various types of hazardous materials and/or petroleum, including but not limited to, various oils, lubricants, antifreeze, brake fluid, transmission fluid, solvents; and generate various types of hazardous waste, including but not limited to, used oil, spent antifreeze, and spent solvents. Although no signs of deliberate dumping, or indications of mismanagement of hazardous materials were observed during the time of the site inspection, due to the lack of comprehensive documentation regarding the former automobile repair operating procedures, and lack of significant environmental regulations prior to existing mandates, EPS Environmental cannot render an opinion about the integrity of historic automobile repair operations, or potential effects on the Property's subsurface conditions. ***As there is a potential for a release(s) (e.g., mismanaged, spilled, leaked and/or dumped) of hazardous materials and/or petroleum used in historical automobile repair operations to have occurred, and negatively impacted underlying soil/groundwater, the former automobile repair operations present a REC in connection with the Property.*** Refer to Sections 4.3.5 and 7.0 for additional discussion.

Adjacent Sites

South Adjacent Site

A south adjacent site was identified on the Illinois Office of the State Fire Marshal (OSFM) underground storage tank (UST) database with one (1) abandoned in place, 6,500-gallon and one (1) does not exist, 2,500-gallon heating oil USTs under the facility name Pullman Bank, 815

West 63rd Street. It should be noted, this south adjacent site was not identified on the Illinois Environmental Protection Agency (IEPA) Leaking Underground Storage Tank (LUST) database with a reported release (e.g., spills, overfills, and/or leaking tanks) Based on physical distance from the Property (across West 63rd Street) and dense urban infrastructure in the area, this south adjacent UST site and contamination if any, should not present a readily apparent environmental concern to the Property.

An additional south adjacent site was identified on the Historical Cleaners database under the facility name Starbright Quality Cleaners, 923 West 63rd Street for the year 2003. No additional information was recorded for this listing. Based on the absence of other database listings (e.g., RCRA generator of hazardous waste), physical distance from the Property (south, across West 63rd Street) and dense urban infrastructure in the area, this south adjacent site should not present a readily apparent environmental concern to the Property.

East Adjacent Site

An east adjacent site (across South Halsted Street) was identified on the OSFM UST database with one (1) 5,000-gallon and four (4) 2,000-gallon exempt from registration heating oil USTs under the facility name New King College – Construction, 6201-6299 South Halsted Street. It should be noted, this east adjacent site was not identified on the IEPA LUST database with reported releases. Based on physical distance from the Property (east and across South Halsted Street) and dense urban infrastructure in the area, this east adjacent UST site and contamination if any, should not present a readily apparent environmental concern to the Property.

Remaining Listed Sites

A further west site was identified on the Historical Auto Stations database under the facility name J & M Auto Repair, 1000 West 63rd Street, as an automobile repair and service station for the year 2003. In addition this further west site was identified on the RCRA database as a conditionally exempt small quantity generator of hazardous waste (ignitable waste) and on the Facility Index System (FINDS) database, likely due to the RCRIS database listing, under the facility name Major Motor Supply Company. It should be noted, no RCRIS violations were recorded to the site. In addition, there was no evidence of outside hazardous waste storage areas, staining, or signs of deliberate dumping of hazardous waste observed on this site as viewed from the Property or public right of ways at the time of the site reconnaissance. Based on physical distance from the Property (further west and approximately 350-feet) and provided the hazardous waste was and continues to be properly handled, stored, and disposed, this site should not present a readily apparent environmental concern to the Property.

A further southeast site was identified on the Historical Cleaners database under the facility name Peponis Ladas, 6319 South Halsted Street as a hat cleaner and blocker for the year 1928. Based on physical distance from the Property (approximately 300-feet) this further south site should not present a readily apparent environmental concern to the Property.

The remaining listed sites are located over 350 feet from the Property. Based on the physical distances from the Property and dense urban infrastructure in the area, the remaining listed sites are not expected to present a readily apparent environmental concern to the Property.

Un-mappable Sites

Due to inadequate address information, 20 un-mappable sites were listed on the database. Using the limited address/name recognition provided by EDR coupled with off-site reconnaissance, it does not appear the un-mappable sites are located within a 1/8-mile radius of the Property. As such, based on the assumed distances of the un-mappable sites from the Property and dense urban infrastructure in the area, these un-mappable sites are not expected to present a readily apparent environmental concern to the Property.

4.3 Historical Use Information

The following reasonably obtainable sources of information were reviewed or contacted to determine the historical uses of the Property. When feasible, information pertaining to the adjacent sites was reviewed.

4.3.1 Sanborn Fire Insurance Maps (Sanborns) – 1919, 1924, 1951, 1975, 1987, 1991 and 1993 provided by EDR

The Property is depicted with numerous dwellings, storefronts, churches and/or vacant, undeveloped parcels on the 1895 Sanborn; with several additional dwellings, storefronts, churches, commercial buildings including a structure utilized by Empress Theatre Building (6232 South Halsted Street) depicting two (2) 5,000-gallon "tanks" in the penthouse, a structure utilized by a bowling alley, a structure utilized as a hardware warehouse (6201 South Peoria Street) with a "gasoline tank" depicted in the adjacent alley, a structure utilized by an auto repair facility (6223 South Peoria Street) and a structure utilized by a parking garage with a "gasoline tank" depicted in the right of way on South Peoria Street on the 1926 Sanborn. The 1950 Sanborn depicts the West Property building as currently identified and utilized as a fire department station. In addition, several structures are depicted on the Property including apartments, hotels dwellings, storefronts, churches, commercial structures, a tire and battery service station with a filling station (6247-6247 South Peoria Street) depicting two (2) "gasoline tanks" in the adjacent right of way on South Peoria Street. The 1975 Sanborn depicts the East Property building as currently identified and utilized as a commercial structure (circa 1972) and the remaining parcels as vacant, undeveloped lots, several dwellings, storefronts and commercial structures. The subsequent Sanborns depict the East and West Property buildings as currently identified with storefronts, dwellings and commercial structures along South Halsted and West 63rd Streets. ***As there is a potential for a release(s) (e.g., mismanagement, spilled, leaked and/or dumped) of hazardous materials and/or petroleum used in historical automobile repair operations to have occurred, and negatively impacted underlying soil/groundwater, the former automobile repair operations present a REC in connection with the Property. Furthermore, as there is a potential for a release (e.g., spills, overfills, and/or leaks) to have occurred from the***

tanks depicted on the Sanborns and negatively impacted underlying soil/groundwater, these tanks presents a REC in connection with the Property. Refer to Section 7.0 for additional discussion regarding the USTs and former automobile repair operations.

The Sanborns were also reviewed for the adjacent sites. The 1895 and subsequent Sanborns depict the adjacent sites as storefronts, department stores, dwellings and/or vacant undeveloped parcels with a auto sales with service station depicted on a south adjacent site (859 West 63rd Street) and a 100-gallon benzene UST depicted on an additional south adjacent site (849 West 63rd Street) on the 1926 Sanborn. Based on dense urban infrastructure in the area and physical distance from the Property (across West 63rd Street with the UST and "service station" depicted near the south adjacent public alley) these south sites and their associated UST and/or service station, should not present a readily apparent environmental concern to the Property.

No additional USTs or chemical storage areas are depicted on the Property or adjacent sites on the Sanborns reviewed. See Appendix D, Historical Information for copy of the Sanborns reviewed.

4.3.2 Historical Building Permits, viewed at University of Illinois at Chicago Library

Property

A City of Chicago permit was on file for the Property (904-906 West 63rd Street) for one (1) 1,500-gallon tank dated 1951.

A City of Chicago permit was on file for the Property (904-906 West 63rd Street) for a "tank for fuel oil" dated 1951.

A City of Chicago permit was on file for the Property (6244-48 South Peoria Street) for a 1,000-gallon tank dated 1949.

A City of Chicago permit was on file for the Property (6214 South Halsted Street) for one (1) 2,000-gallon fuel oil tank dated 1947.

As there is a potential for a release of petroleum to have occurred from these historic USTs; and negatively impacted underlying soil/groundwater, these historical USTs present a REC in connection with the Property. Refer to Section 7.0 for additional discussion.

Adjacent Sites

Two (2) City of Chicago permits were on file for an east adjacent site (6155 South Halsted Street) to "install and enclose one (1) 1,300-gallon fuel tank" dated 1953 and for one (1) 1,150-gallon fuel oil tank dated 1947. Based on physical distance from the Property, these USTs and contamination, if any, should not present a readily apparent environmental concern to the Property.

A City of Chicago permit was on file for a south adjacent site (813 West 63rd Street) for a "tank" dated 1954. Based on physical distance from the Property, this UST and contamination, if any, should not present a readily apparent environmental concern to the Property.

See Appendix D, Historical Information for a copy of the permits reviewed.

4.3.3 Environmental Records, via Freedom of Information Act (FOIA) request to the City of Chicago Department of the Environment (DOE)

A FOIA request was submitted to the DOE regarding the Property and adjacent sites; however, at the time of this writing a response had not been received. In the event information is received that alters the Findings and Conclusions of this Report, it will be forwarded promptly to the Client. EPS Environmental opines this data gap is not material to the extent that would alter the findings and conclusions of this report.

4.3.4 Zoning, via review of the City of Chicago Zoning Website (Zoning Website)

According to the Zoning Website, the Property is zoned C1-2 (commercial district).

4.3.5 Information Supplied by Client

No former environmental reports, additional site plans, maps, or documents relating to the Property were provided for review.

4.3.6 Environmental Liens and Activity & Use Limitations (AULs)

Neither the Client nor Property representative provided EPS Environmental any information regarding environmental liens or litigation regarding environmental concerns with the Property. Moreover, an environmental questionnaire was provided to the Client regarding liens, AULs, and for environmental documents that may aid in the preparation of this report. However, the completed environmental questionnaire was not returned at the time of this writing. EPS Environmental opines this data gap is not material to the extent that would alter the findings and conclusions of this report.

4.3.7 Aerial Photographs (Aerials) for the years 1938, 1999, and 2002 provided by the USGS

The 1938 Aerial depicts the Property with several commercial, storefront and/or residential structures. The 1999 and 2002 Aerials depict the East and West Property buildings as currently identified and several structures along South Halsted and West 63rd Streets. The Aerials were also reviewed for the adjacent sites. The 1938 and subsequent Aerials depict the adjacent sites with structures, dwellings and/or storefronts or as currently identified. Evidence of significant disturbance of upper soil layers or signs of open dumping was depicted on the Property and adjacent

sites on the Aerials reviewed likely due to the demolition of structures. Refer to Appendix D, Historical for copies of the Aerials reviewed.

4.3.8 City Telephone Directory Abstract provided by EDR

A City Telephone Directory Abstract was reviewed for the Property. The City Telephone Directory Abstract utilizes business and telephone directories to list individuals and/or companies associated with a specific address within 100-foot radius of the southeast corner of the Property. Review of the city directory search identified no listings of environmental significance (e.g., dry cleaners, photo developing, etc.) for the Property. Refer to Appendix D, Historical Information for a copy of the city directory search reviewed.

Based on the historical information provided by the Property representative, Sanborn Fire Insurance Maps, historical aerial photographs and the City Telephone Directory Abstract reviewed, it appears the Property has consistently been used for commercial, institutional and residential purposes since original development. Historical documentation was not practically reviewable prior to development of the Property. However, EPS Environmental opines additional historical sources are not required to be reviewed.

5.0 INTERVIEWS

The following individual was interviewed for specialized knowledge concerning the Property. The relevant information provided by this individual has been incorporated in the appropriate Sections of this Report.

Mr. Sean Daly - Property representative - Interviewed by EPS Environmental prior to the site reconnaissance.

It should be noted, the former Property owner's contact information was not provided or readily ascertainable to EPS Environmental; therefore, the former Property owner was not interviewed. However, EPS Environmental opines this data gap is not material to the extent that would alter the findings and conclusions of this report.

6.0 SITE RECONNAISSANCE

The site reconnaissance was conducted on October 3, 2008 at approximately 8:00 a.m. by Mr. Samuel T. Bodine, Senior Project Manager, and Ms. Lara M. Hoffman, Environmental Specialist for EPS Environmental (Appendix E). The site reconnaissance was initiated by observing the Property and adjacent sites from public thoroughfares and concluded by walking the Property boundaries. Photographic documentation of significant environmental features has been included as Appendix B.

The weather conditions were overcast with a temperature of approximately 51 degrees Fahrenheit and winds of approximately four (4) miles per hour from the north-northwest. The ground surfaces were dry.

6.1 Underground Storage Tanks (USTs)

A vent pipe and fill port, equipment typically associated with an UST was observed on the north exterior wall of the West Property Building during the site reconnaissance. This equipment is likely associated with an out-of-service heating oil UST(s) located on the Property. ***As there is a potential for a release to have occurred from the suspect heating oil UST, and negatively impacted underlying soil/groundwater, this suspect heating oil UST presents a REC in connection with the Property.*** Refer to Section 7.0 for further discussion.

It should be noted, as the Property was historically occupied by several structures, the former heating fuel sources(s) (e.g., wood, coal, or fuel oil) is unknown, and the manner in which the fuel was stored is also unknown [e.g., aboveground- or underground storage tanks (USTs)]. EPS Environmental cannot categorically state, at this time, whether unidentified UST(s) or buried aboveground storage tank(s) from previous structures are present on the Property.

EPS Environmental recommends caution be exercised during excavation activities to avoid accidental contact with the gasoline USTs and/or additional buried tanks. Special attention should be given to areas where buried tanks would likely be situated (e.g., nearest former building foundation, and areas accessible for former fuel delivery). Moreover, should an additional buried tank be discovered, the tank and associated impacted soil, if present, should be removed according to all applicable laws and regulations. In addition, soil testing should be conducted to demonstrate clean-up efforts, if necessary, or to determine whether the Property has, in fact, been negatively impacted.

6.2 Aboveground Storage Tanks (ASTs)/Storage Drums/Containers

No 55-gallon drums, ASTs, or unidentified containers were observed on the Property during the on-site inspection.

6.3 Stained or Disturbed Surfaces / Stressed Vegetation

No signs of significant staining, spillage, dumping or releases were observed on the Property. In addition, no stressed vegetation was observed on the Property.

6.4 Stormwater Run-off/Standing Water/Wetlands/Sumps/Pits/Ponds/Lagoons

Stormwater run-off from the Property appears to flow into stormwater sewers located in the parking areas and along the adjacent right-of-ways. No petroleum sheens were observed or unusual odors noted emanating from the sewers. No areas of standing water (e.g., pools of liquid, pits, ponds or lagoons) or suspect wetland vegetation were observed on the Property.

6.5 Waste Disposal Practices

The waste generated from the East Property building is collected for off-site disposal by Waste Management and Premier Disposal, as evidenced by labeled dumpsters on the Property. No hazardous or special waste streams were reported or identified being currently generated from the Property.

6.6 Polychlorinated Biphenyls (PCBs)

Several pad- and pole-mounted transformers were observed on the Property and along the adjacent right of ways. The equipment was not observed to be leaking or to be labeled with a black and yellow PCB warning sticker. A warning sticker is required by federal regulations for equipment containing between 50 and 500 parts per million (ppm) PCBs or greater. ComEd, as the owner of the transformers, is responsible for keeping the equipment in compliance with federal, state and local regulations, and the cleanup of contamination resulting from leaking equipment, as necessary.

Potential PCBs containing fluids may exist in the ballasts of the older fluorescent light fixtures observed throughout the East Property building. Minor signs of staining were observed near the air compressors, however no significant cracks were observed on the concrete slab, therefore the potential for contamination is reduced. No additional signs of leakage were observed on the remaining equipment or fixtures. Should future plans involve the repair, removal or disposal of the equipment or fixtures, proper procedures and precautions should be followed regarding the ballasts.

6.7 Air Quality/Emissions

No unusual odors were noticed emanating from the Property. Other than the buildings' heating sources, the Property was not identified to have other sources typically associated with point source air emissions.

It should be noted, the Property and several nearby sites are recorded on environmental databases as managing hazardous materials/petroleum and/or with releases of hazardous materials/petroleum into the environment. As such, there is a possibility for a potential vapor intrusion condition (PVIC)[1] to exist within the Property buildings. However, to categorically determine whether a PVIC exists within the Property buildings, vapor intrusion screening would be necessary.

[1] "The presence of likely presence of any chemicals of concern in the indoor air environment of existing or planned structures on a Property caused by the release of vapor from contaminated soil or groundwater on the Property or within close proximity to the Property, at a concentration that presents or may present an unacceptable health risk to occupants"

6.8 Readily Observable Suspect Asbestos-Containing Material (ACM)

ACM had been used extensively in the construction of buildings prior to 1980. According to the USEPA, ACM is commonly found in three forms: (1) sprayed or troweled-on ceilings and walls (surfacing materials), including structural fireproofing; (2) in insulation on pipes, ducts, boilers, tanks or mechanical equipment [thermal system insulation (TSI)]; and (3) in "miscellaneous materials," such as, floor tiles, roofing felts and shingles, or wall boards. ACM is of greatest potential concern when it is friable, particularly if it is damaged or deteriorated. Friable, by definition, refers to a material that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. Friable ACM is more likely than non-friable ACM to release fibers when disturbed or damaged. Airborne asbestos fibers can pose a potential respiratory health risk to building occupants who are exposed.

Though an asbestos survey and sampling were not a part of this Phase I Assessment, the Property was inspected for the presence and condition of readily observable suspect ACM.

The following chart summarizes suspect ACM to include, but is not limited to:

HOMOGENEOUS MATERIAL	LOCATION	CONDITION	FRIABLE	NON-FRIABLE
Drywall system	East Building	Good		X
2' x 4' drop panel ceiling tiles	East Building	Good	X	
12" x 12" vinyl floor tile	East Building	Good		X
9" x 9" vinyl floor tile and exposed black mastic	Former building floor	Significantly Damaged		X
Roofing materials	Roofs	Not observed		X

The damaged suspect ACM should be sampled by a licensed Illinois Department of Public Health (IDPH) asbestos inspector. Should the damaged and significantly damaged materials be identified as ACM, the materials should be removed, repaired, and/or encapsulated, as necessary, by a licensed asbestos abatement contractor in compliance with all applicable laws and regulations. Based on the condition, location, and potential for damage, EPS Environmental opines that the other suspect ACM can be managed in-place by implementing a site-specific Operations & Maintenance program. According to the Property representative, an O & M Plan is maintained for the Property. In addition, TSI on pipe joints observed in the Property building had asbestos warning labels. If future renovation activities are planned, an asbestos survey should be conducted by an accredited inspector to include those areas of the building that were previously inaccessible due to physical barriers (requiring a considerable amount of disassemble). Subsequently, any damaged ACM and/or ACM in the affected areas should be repaired, encapsulated and/or removed as necessary by a professional asbestos abatement firm following all applicable regulations prior to any activities that have the potential to disturb ACM.

It should be noted, in 1995, Occupational Safety and Health Administration (OSHA) enacted regulations establishing affirmative record keeping and information transfer duties for commercial and industrial building owners and lessees. OSHA regulations require building owners determine the presence, location, and quantity of asbestos-containing material (ACM).

6.9 Potential Lead-Based Paint

Painted surfaces were observed throughout the buildings and appeared to be in good condition. Based on the construction date of the original buildings, the paint in areas not recently renovated may contain lead above regulatory limits. Lead is a known hazard that results in deterioration of the central nervous system when ingested or absorbed by humans. Therefore, the painted surfaces should be properly maintained. As significant lead exposure can arise from removal, repair, renovation or demolition of the painted surfaces, testing is recommended to determine lead content prior to such planned renovation activity. If the painted surfaces are confirmed to contain lead above regulatory limits, professional abatement activities should be exercised in a manner that will not endanger the health or safety of workers and/or building occupants. Proper disposal of flakes, chips, dust or other lead-bearing debris, if any, resulting from the work should also be exercised.

6.10 Miscellaneous Equipment

The fluorescent bulbs observed throughout the East building may contain mercury and are classified as universal waste under Title 40 Code of Federal Regulations Part 273 titled Standards for Universal Waste Management. Should future plans involve the repair, removal, or disposal of the fixtures, proper procedures and precautions should be followed regarding the bulbs.

Air-conditioning and refrigeration units are located on the Property. The equipment contains chlorofluorocarbon (CFC) refrigerant. CFC is a federally regulated substance that is known to contribute to ozone depletion within the atmosphere. In the event that the equipment is repaired or removed from the premises, the CFC, if present, should be recovered.

6.11 Biological Hazards/Mold

No visual or olfactory evidence of potential biological hazards (e.g., excessive micro-biological growth) was observed inside the East Property building during the inspection as viewed from the windows.

6.12 Observations of Surrounding Sites

No recognizable environmental concerns were visually identified on the surrounding sites as observed from the Property and public right-of-ways during the time of the site reconnaissance.

7.0 FINDINGS AND CONCLUSIONS

EPS Environmental Services, Inc. has performed a Phase I Environmental Property Assessment in conformance with the scope and limitations of ASTM Standard Practice E 1527-05 and according to the standards and practices set forth in 40 Code of Federal Regulations (CFR) Part 312 for the Property. Any exceptions to, or deletions from these practices are described in Section 2.3 of this Report.

This Phase I Assessment has revealed evidence of the following recognized environmental conditions[1] (RECs) in connection with the Property:

Underground Storage Tanks (USTs) on the Property

The Sanborn Fire Insurance Maps depicted several "gas tanks" on the Property and several City of Chicago building permits were issued for the installation of tanks on the Property. Furthermore, a vent pipe and fill port, equipment typically associated with an UST was observed along the north exterior wall of the West Property building. This equipment is likely associated with an out-of-service heating oil UST located on the Property. **As there is a potential for releases (e.g., spills, overfills, and/or leaks) of petroleum to have occurred from the suspect heating oil USTs and gasoline USTs, and negatively impacted underlying soil/groundwater, the suspect USTs present a REC in connection with the Property.**

To determine whether an unknown/unreported release(s) occurred from the suspect USTs, and negatively impacted underlying soil/groundwater with contaminants associated with petroleum, a limited subsurface investigation would be necessary. Moreover, a limited magnetometer survey should be conducted in an attempt to confirm or deny the presence of USTs on the Property.

Historic Automobile Repair Operations

The 1926 through 1988 Sanborns depict a gasoline filling and automobile repair facility on the west portion of the Property; gasoline USTs are noted along the adjacent right of way within the Property boundaries. Automobile repair operations include the use of various types of hazardous materials and/or petroleum, including but not limited to, various oils, lubricants, antifreeze, brake fluid, transmission fluid, solvents; and generate various types of hazardous waste, including but not limited to, used oil, spent antifreeze, and spent solvents. Although no signs of deliberate dumping, or indications of mismanagement of hazardous materials were observed during the time of the site

[1]According to ASTM Practice E 1527-05, a recognized environmental condition (REC) means "the presence or likely presence of any hazardous substances or petroleum products on a Property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the Property or into the ground, ground water, or surface water of the Property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws." Moreover, according to the ASTM E 1527-05, a "historical recognized environmental condition" (HREC) is defined as a condition which in the past would have been considered a REC, but which may or may not be considered a REC currently.

inspection, due to the lack of comprehensive documentation regarding the former automobile repair operating procedures, and lack of significant environmental regulations prior to existing mandates, EPS Environmental cannot render an opinion about the integrity of historic automobile repair operations, or potential effects on the Property's subsurface conditions.

As there is a potential for a release (e.g., mismanaged, spilled, leaked and/or dumped) of hazardous materials and/or petroleum used in historical automobile repair operations to have occurred, and/or releases from USTs to have occurred, and negatively impacted underlying soil/groundwater, the former automobile repair operations and associated USTs present a REC in connection with the Property.

To determine whether a release of hazardous and/or petroleum used in historical automobile repair operations occurred, and/or releases from the USTs occurred and negatively impacted underlying Property soil/groundwater, a limited subsurface investigation would be necessary.

Subgrade Demolition Debris

On October 3, 2008, EPS Environmental conducted vapor screening on soil/miscellaneous construction debris in 17 geo-technical test pits situated at various areas throughout the Property to determine whether petroleum hydrocarbons are present in demolition debris. It should be noted, demolition debris consisting of, but not limited to, broken brick fragments, cinders and broken concrete were observed in the test pits.

Soil samples were examined for visual signs of petroleum hydrocarbon contamination and/or the presence of unusual odors.

PID screening results ranged from 0.5 to 134 parts per million (ppm) for the screened soil samples. Petroleum hydrocarbon odors were noted in samples collected from test pits TP-4, TP-7 and TP-9. **The vapor survey identified elevated PID readings, coupled with visual and olfactory signs of petroleum hydrocarbons in Property soil. The presence of petroleum hydrocarbons in Property soil presents a REC in connection with the Property.**

To determine whether contaminants associated with hazardous materials and/or petroleum are present in demolition debris underlying the Property, a limited subsurface investigation would be necessary. Moreover, the demolition debris should be analyzed and characterization for appropriate off-site waste disposal for future development of the Property.

8.0 WARRANTY AND LIMITATIONS OF LIABILITY

The Phase I Assessment and this Report are of limited scope, and do not provide sufficient information to eliminate the total risk of the presence of contamination or other liabilities. Significantly higher levels of exploratory efforts than those performed in this Phase I Assessment are required to accumulate sufficient information to determine all environmental liabilities associated with the Property. Subsurface investigations and testing were beyond the scope of this Phase I Assessment.

EPS Environmental warrants that the Phase I Assessment has been conducted in accordance with generally accepted investigatory methods utilized by professional environmental consultants and includes the recommended practices for the "Phase I Environmental Site Assessment Process" contained in the ASTM Standard E 1527-05. EPS Environmental further warrants that the findings and conclusions in this Report are based exclusively on the Phase I Assessment. The investigatory methods that EPS Environmental utilized in the Phase I Assessment have been developed to provide the Client with information regarding apparent indications of existing or potential environmental conditions relating to the Property and are limited to the conditions that were observed at the time of the investigation of the Property. The findings and conclusions contained in this Report are also limited to the information available on the Property at the time that the Phase I Assessment was conducted. There is a distinct possibility that conditions may exist at the Property, which were not apparent during the preparation of the Phase I Assessment. In conducting the Phase I Assessment and preparing the Report, EPS Environmental relied on the information obtained from Property owner/operators or other persons, and government agencies having knowledge of operations and practices of the Property. EPS Environmental has assumed that this information is accurate and complete, except when independent investigation has indicated otherwise.

The Phase I Assessment did not attempt to determine whether the facilities operating on the Property are in compliance with existing environmental regulations. This Report discusses and summarizes areas of potential environmental concern for the Property itself. This Report provides no other warranties, expressed or implied.

8.1 Confidentiality

EPS Environmental will hold the Report and all field observations and related documents in strict confidence and will not disclose these items except to the Client or except as ordered by any state or federal agency or court of law. In the event that EPS Environmental is ordered by a state or federal agency or court of law to disclose the contents of the Report or field observations, the Client shall hold EPS Environmental harmless from liability for any damages that the Client may suffer due to EPS Environmental's disclosure. In addition, the Client shall indemnify EPS Environmental from any and all damages EPS Environmental may suffer due to any action, which results in an order that EPS Environmental make a disclosure.

8.2 Reliance on Phase I Assessment and Report

The Phase I Assessment has been conducted, and this Report has been prepared, exclusively for the Client and it is intended that only the Client will rely on the Phase I Assessment and Report. The Phase I Assessment and Report will be solely for the benefit of the Client and may not be relied upon by other parties.

8.3 Sources of Information Relied Upon for Phase I Assessment and Report

All information that EPS Environmental has relied on in conducting the Phase I Assessment and preparing the Report, not specifically identified as generated by EPS Environmental or any federal, state, or local agency, has been supplied by or derived from data provided by the Client and Property representative.

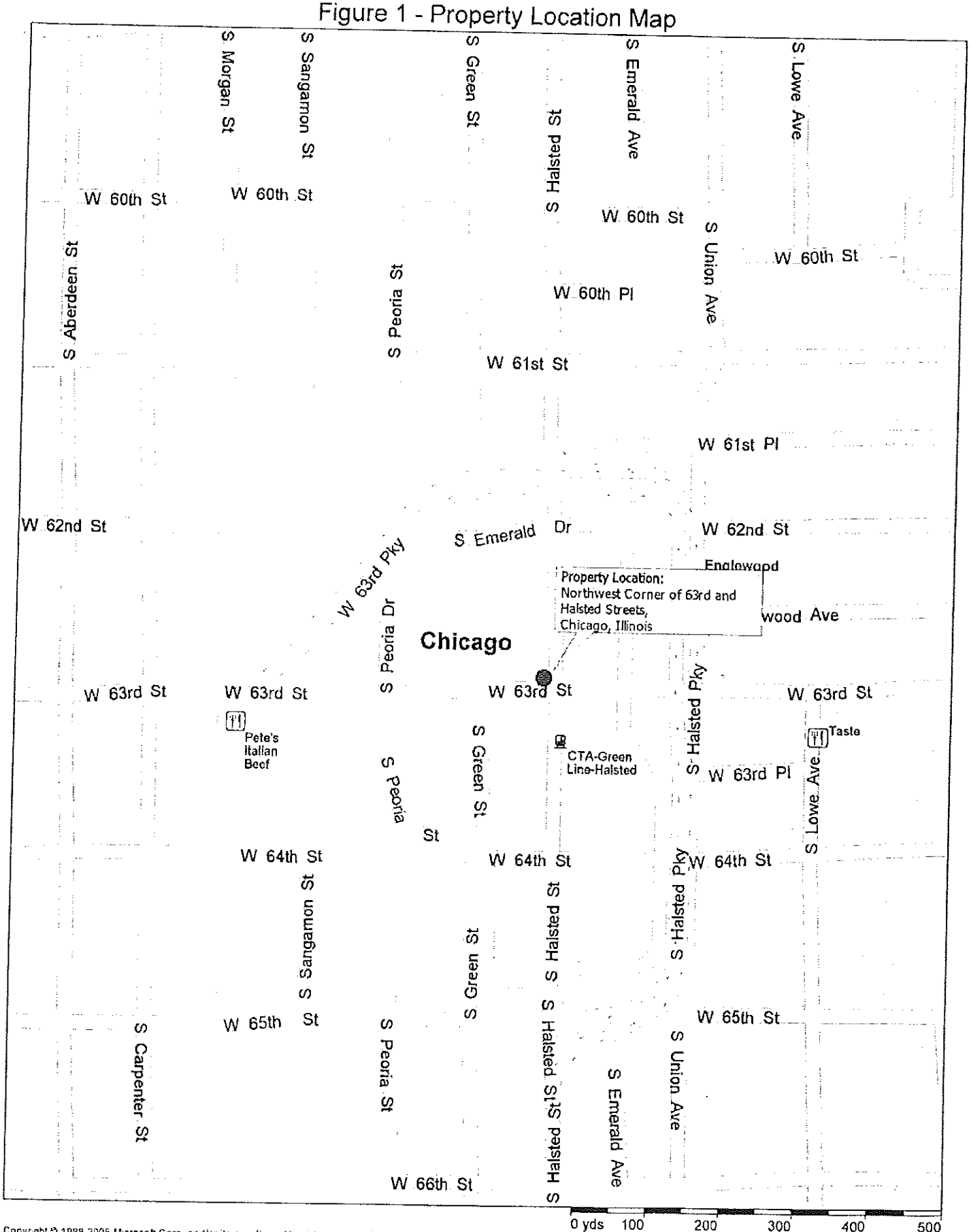
8.4 Certification

We, Samuel T. Bodine and Peter N. Partipilo, CHMM, declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 40 Code of Federal Regulations (CFR) Part 312. We have the specific qualifications based on education, training, and/or experience to assess a property of this nature, history, and setting similar to the Property. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

To the best of any information and belief, the facts stated in the Report are true and are made under a penalty of perjury as defined in Section 32-2 of the Criminal Code of 1961 [720 ILCS 5/32-2]. It is perjury for any person to sign an audit report that contains a false material statement that the person does not believe to be true.

FIGURES

Figure 1 - Property Location Map



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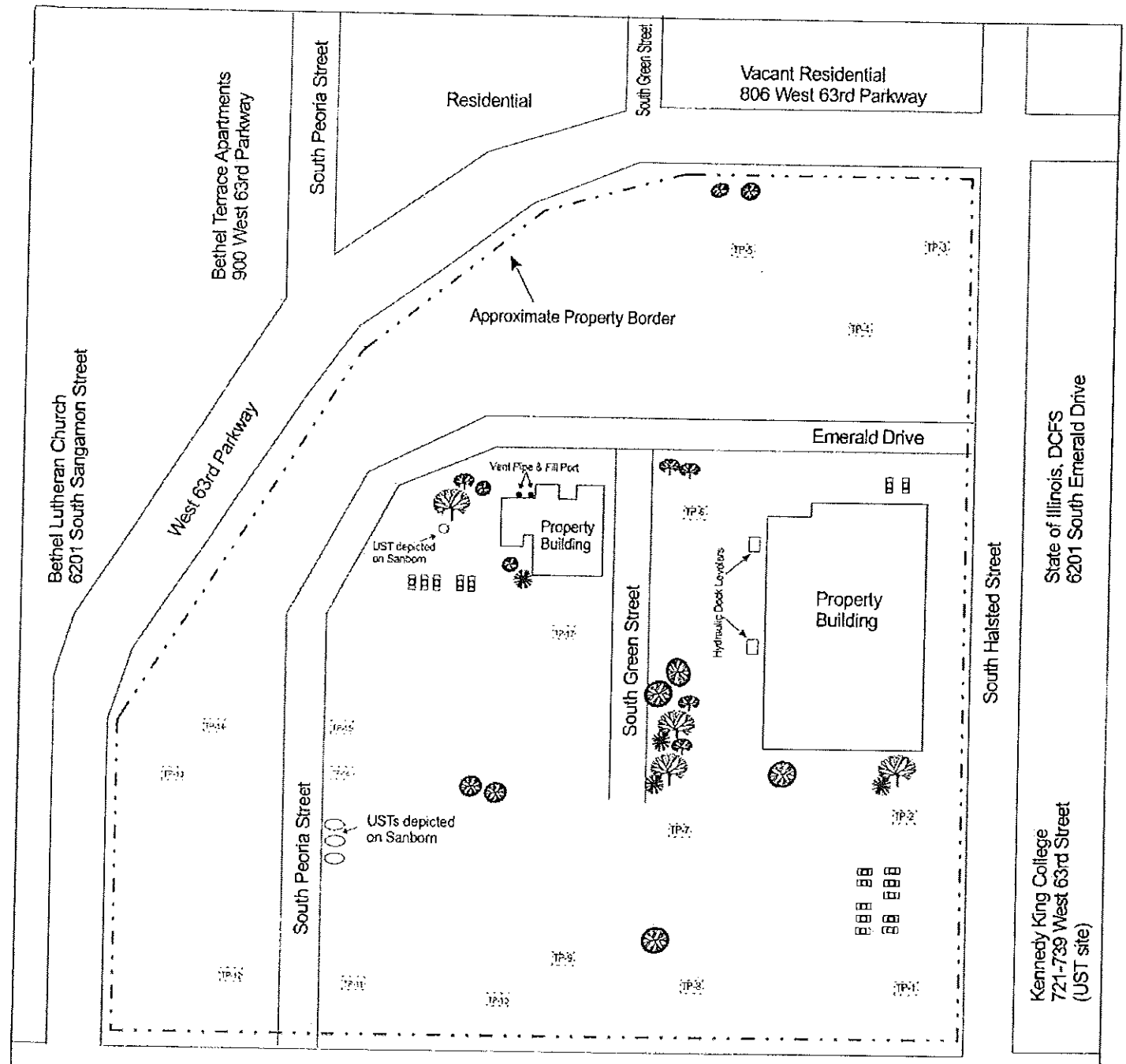

Vacant Commercial
921-923 West 63rd Street
(Historical Cleaners site)

ATM with
Asphalt Paved
Parking
859 West 63rd Street

Multi-tenant Commercial
821 West 63rd Street

Park National Bank
815 West 63rd Street
(UST site)

Multi-tenant Commercial
6300 South Halsted Street

FIGURE TWO - PROPERTY SKETCH

West 63rd Street and
South Halsted Street
Chicago, Illinois

North

EPS Environmental Services, Inc.
7237 West Devon Avenue, Chicago, Illinois 60631
not to scale

Date: 10/03/08

Project #8229-0608

environmental services, inc.

November 11, 2008

Mr. Sean Daly
Development Manager
The Daly Group
2803 Butterfield Road Suite 300
Oakbrook, Illinois 60523

Re: Environmental Status

Location: Northwest Corner of West 63rd and Halsted Streets
Chicago, Illinois

Project #: 8229-0608

Dear Mr. Daly:

At your request, EPS Environmental Services, Inc. (EPS Environmental) prepared a *Phase I Environmental Property Assessment* (Phase I) dated October 9, 2008 for the above referenced location (the Property). The Phase I revealed evidence of the following recognized environmental conditions[1] (RECs) in connection with the Property:

- Visual and olfactory evidence of petroleum hydrocarbon contaminated soil is present on the Property; in addition, fill material has been identified.

- There is a potential for a release (e.g., spills, overfills and/or leaks) of petroleum to have occurred from historical underground storage tanks (USTs), and negatively impacted Property soil/groundwater.

- There is a potential for a release (e.g., mismanaged, spilled, leaked and/or dumped) of hazardous materials and/or petroleum used in historical automobile repair operations to have occurred and negatively impacted underlying Property soil/groundwater.

At the time the Phase I was prepared, the response from a Freedom of Information Act (FOIA) request to the Chicago Department of Environment (CDOE) was pending. Subsequent review of the documentation received from CDOE indicated several City of Chicago permits were on file for the installation of USTs on the Property.

[1] According to ASTM Practice E 1527-05, a recognized environmental condition (REC) means "the presence or likely presence of any hazardous substances or petroleum products on a Property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the Property or into the ground, ground water, or surface water of the Property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws." Moreover, according to the ASTM E 1527-05, a "historical recognized environmental condition" (HREC) is defined as a condition which in the past would have been considered a REC, but which may or may not be considered a REC currently.

7237 West Devon Avenue • Chicago, Illinois 60631
(773) 792-3090 Fax (773) 792-3091

As recommended in the Phase I, to determine whether Property soil/groundwater has been negatively impacted by the aforementioned RECs, a limited subsurface investigation would be necessary.

Potential Remedial Costs

According to the Client, the proposed use of the Property is to construct a retail strip center with slab on grade structures. As such, the majority of any contaminated soil (e.g., contaminants identified above 35 Illinois Administrative Code Part 742, titled *Tiered Approach to Corrective Action Objectives* (TACO) Tier 1 soil remediation objectives (SROs) for industrial/commercial land use) can be managed in-place (e.g., in-situ) beneath future parking areas and/or concrete building slabs. EPS Environmental estimates the cost to remove any identified USTs and obtain No Further Remediation (NFR) letters for releases (e.g., spills, overfills, and/or leaking tanks), if any, reported to the Illinois Emergency Management Agency (IEMA) to be between $150,000 and $200,000. This estimate includes removing the identified USTs, conducting site investigations, and submitting the necessary documentation to the Illinois Environmental Protection Agency (IEPA) to obtain the NFR letters allowing for contaminated soil/groundwater to be managed in-situ utilizing engineering barriers and deed restrictions.

Moreover, fill material was encountered in all of the test pit excavations recently conducted on the Property. Therefore, during development of the Property the fill material will be considered special waste that requires disposal at a facility licensed to accept such waste. In addition, any soil exhibiting petroleum hydrocarbon odors or staining during the installation of on-site utilities and/or foundations will be considered special waste requiring disposal at a licensed facility. Typical costs for disposal of petroleum contaminated soil is $31.00 per ton and for clean imported fill material is $15 per ton (not including excavation and transportation costs).

It should be noted, once a limited subsurface investigation is completed, more accurate cost estimates can be provided. As always, EPS Environmental appreciates the opportunity to have provided our services and looks forward to serving your future needs. Should you have questions concerning this letter, or have further need of our services, please do not hesitate to call.

Sincerely,

Samuel T. Bodine
Senior Project Manager

PIONEER
ENVIRONMENTAL SERVICES, LLC

Comprehensive Site Investigation Report / Remediation Objectives Report / Remedial Action Plan

LPC# (not yet assigned) / Cook County
Chicago / Halsted Parkways
Northwest Corner of West 63rd Street and South Halsted Street
Chicago, Illinois

Prepared For:
Chicago Neighborhood Initiatives
1000 E. 111th St., 10th Floor
Chicago, IL 60628
Attn: David Doig

Project Number:
12-0646-102

Date Submitted:
April 29, 2014

PIONEER
ENVIRONMENTAL SERVICES, LLC

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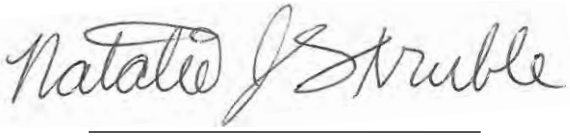
The following personnel have prepared and/or reviewed this report.



Wayne Smith, P.G.
Vice President
Report Reviewer

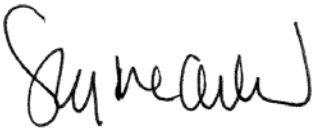


Natalie Struble
Project Manager
Report Author

Licensed Professional Engineer Affirmation

I attest that all site investigations or remedial activities, including review of laboratory data, that are the subject of this plan or report were performed under my direction and this document and all attachments were prepared under my direction or reviewed by me, and, to the best of my knowledge and belief, the work described in the plan or report has been designed or completed in accordance with the Act, 35 Ill. Adm. Code 740, and generally accepted engineering practices, and the information presented, including any qualified laboratory data is accurate and complete.

In addition, I affirm that the documentation of the prior investigations or remedial activities is suitable for use and consideration in evaluating site conditions in connection with this assessment.



Jeffrey McClelland, P.E.
Vice President

12-0646-102

Pioneer Project Number

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Appendix F: Potable Well Survey Maps
Appendix G: Laboratory Analytical Reports

EXECUTIVE SUMMARY

Pioneer Environmental Services, LLC (Pioneer) was contracted by Chicago Neighborhood Initiatives (CNI), the Client, on behalf of the City of Chicago, the Remediation Applicant, to provide environmental site closure services for the subject property (Remediation Site) located at the northwest corner of West 63rd Street and South Halsted Street in Chicago (Cook County), Illinois. The Remediation Site is irregularly-shaped and consists of multiple parcels of land herein referred to as Development Site A, Development Site B, Development Site D, Retail Development Site (including Outlots A and B), Proposed Stormwater Detention Area - North, and Proposed Stormwater Detention Area - South. The subject property is currently occupied by an approximate 10,000 ft^2 former fire house (an historic landmark) located on the north-central portion of the site. The Remediation Site contains approximately 10.5 acres of land and the majority of the site consists of vacant land with scattered remnant concrete foundations, gravel and/or broken asphalt, and grassy areas. Current and former city streets and alleys are also present within the boundaries of the Remediation Site (Figure 1) The (known) intended future uses of the Remediation Site are for commercial/retail development purposes.

The objective of the site investigation activities outlined herein was to demonstrate that the site has been adequately assessed and to determine the degree of remedial action necessary to comply with the applicable regulations of Title 35 Illinois Administrative Code Part 740 [(35 IAC 740) – Site Remediation Program (SRP)], and Part 742 [Tiered Approach to Corrective Action Objectives (TACO)]. This work is voluntarily being conducted to obtain a Comprehensive No Further Remediation (NFR) letter from the Illinois Environmental Protection Agency (IEPA). The contents of this submittal are intended to satisfy the requirements of 35 IAC Part 740.425, 740.445, and 740.450. As a note, the Remediation Applicant never operated at the subject property and is voluntarily pursuing a Comprehensive NFR letter for the Remediation Site in order to redevelop the site for its beneficial reuse as a commercial development.

The scope of environmental investigation services provided by Pioneer included: (1) an evaluation of the results of prior environmental investigation activities performed by Pioneer and other consultants; (2) performance of supplemental subsurface investigation activities to further evaluate the nature and extent of contamination; (3) performance of the specific testing and risk assessment activities necessary to comply with the applicable regulations of 35 IAC Part 740 and Part 742; and (4) the preparation of this combined Comprehensive Site Investigation Report/Remediation Objectives Report/Remedial Action Plan (CSIR/ROR/RAP) for submittal to the Illinois Environmental Protection Agency's (IEPA's) voluntary Site Remediation Program (SRP).

The Remediation Site and surrounding properties are located within the municipal limits of the City of Chicago. The Remediation Site is currently nearly vacant, and, based on historical aerial photographs, there have been no active operations conducted on site for at least seven years. Based on a review of historical Sanborn Fire Insurance Maps, the Remediation Site was historically occupied by numerous individual city lots that were mainly occupied by residential dwellings but also contained various commercial structures. An interpretation of aerial photographs indicate that at some time between 1962 and 1972, the subject property

underwent significant changes including demolition of many of the residential structures, reconfiguration of city streets, and conversion to primarily commercial uses.

Based on the findings of a prior Phase I ESA report, three recognized environmental conditions (RECs) were identified at the subject site. The RECs included: 1) the physical and documented evidence of several (approximately 7-10) former and/or current underground storage tanks (USTs) located on various parcels of the site; 2) the historical uses of certain parcels for auto repair operations and a gasoline filling station; and, 3) the presence of subgrade demolition debris and petroleum odors observed during the excavation of certain test pits related to the aforementioned geotechnical work by Terracon.

The Test Pits Report (a geotechnical report) prepared by Terracon in 2008 identified the presence of buried debris, remnant foundations, and fill materials throughout the site. Fill materials consisting of a heterogenous mixture of sand, clay, gravel, cinders, bricks, concrete, wood, and metal were discovered to depths that varied from approximately 3.5-11 feet below grade. The Terracon report stated that a gaseous odor was detected in one test pit while the EPS report stated that three test pits exhibited petroleum odors. No environmental sampling or chemical analyses were performed from the test pits.

The supplemental sampling plan implemented at the Remediation Site consisted of various stages of soil and/or groundwater investigation. The subsurface investigations completed by Pioneer included a ground penetrating radar (GPR) survey, performance of exploratory test pits in suspect areas identified by the GPR survey, advancement of 45 soil borings, and installation of seven groundwater monitoring wells.

The first stage of Pioneer's subsurface investigation to address the RECs included the advancement of 22 soil borings and analysis of 20 soil samples for benzene, toluene, ethylbenzene, total xylenes (BTEX); volatile organic compounds (VOCs); polynuclear aromatic hydrocarbons (PNAs); RCRA 8 metals; and/or total recoverable petroleum hydrocarbons (TRPH). The second stage of Pioneer's subsurface investigation at the Remediation Site included the advancement of 23 soil borings and installation of seven groundwater monitoring wells, with soil samples collected from multiple intervals to delineate the horizontal and vertical extent of impacts within the boundaries of the Remediation Site. A total of 31 soil samples were collected, and 28 soil samples were analyzed for VOCs, BTEX, semivolatile organic compounds (SVOCs), PNAs, RCRA 8 metals, target compound list (TCL) metals, pH, TRPH, pesticides, polychlorinated biphenyls (PCBs), select synthetic precipitation leaching procedure (SPLP)/toxicity characteristic leaching procedure (TCLP) metals, and/or reactivity. The groundwater investigation consisted of the collection of seven groundwater samples for analysis of the full set of TCL parameters or VOCs, PNAs and RCRA 8 metals. The cumulative soil testing analytical results indicated that various PNAs, metals, and TRPH were detected at concentrations exceeding the applicable Tier 1 Soil Remediation Objectives (SROs). The groundwater investigation analytical results indicated that no contaminants of concern (COCs) were detected at concentrations exceeding the applicable Tier 1 Class II or indoor inhalation Groundwater Remediation Objectives (GROs). Soil contamination was mainly detected at depths ranging from 0 to 3 feet below surface grade (BSG). Pioneer's subsurface investigation also included activities to determine the hydraulic conductivity, hydraulic gradient, and direction of groundwater flow. Specifically, slug testing activities yielded a hydraulic conductivity of 3.33×10^{-5} cm/s, and water level measurements indicated an easterly direction of flow, with a gradient of 0.007 ft/ft. Based on

the site-specific data, groundwater at the Remediation Site is classified as Class II – Potable Resource Groundwater.

The following CSIR/ROR/RAP provides a discussion of the results of the subsurface investigation activities conducted at the site, the applicable remediation objectives, and proposed remedial actions based on the data obtained for the site. The required SRP enrollment and review forms (DRM-1 & DRM-2) associated with this submittal are included in Appendix A.

This report has been prepared for the use of the Client and Remediation Applicant identified in the report and for evaluation by the IEPA, and can not be relied upon by other persons or entities without the permission of Pioneer. The observations and conclusions contained herein are limited by the scope and intent of the work mutually agreed upon by the client and Pioneer and the work actually performed. There are no warranties, implied or expressed, concerning the environmental integrity of areas and/or mediums not analytically tested.

1.0 SITE INVESTIGATION REPORT – COMPREHENSIVE SITE INVESTIGATION

1.1 Introduction

Pioneer Environmental Services, LLC (Pioneer) was contracted by Chicago Neighborhood Initiatives (CNI), the Client, on behalf of the City of Chicago, the Remediation Applicant, to provide environmental site closure services for the subject property (Remediation Site) located at the northwest corner of West 63rd Street and South Halsted Street in Chicago (Cook County), Illinois. The scope of environmental investigation services provided by Pioneer included: (1) an evaluation of the results of prior environmental investigation activities performed by Pioneer and other consultants; (2) performance of supplemental subsurface investigation activities to further evaluate the nature and extent of contamination; (3) performance of the specific testing and risk assessment activities necessary to comply with the applicable regulations of 35 IAC Part 740 and Part 742; and (4) the preparation of this combined Comprehensive Site Investigation Report/Remediation Objectives Report/Remedial Action Plan (CSIR/ROR/RAP) for submittal to the Illinois Environmental Protection Agency's (IEPA's) voluntary Site Remediation Program (SRP).

1.2 Site Description

1.2.1 Physical Site Features

The Remediation Site is irregularly-shaped and consists of multiple parcels of land herein referred to as Development Site A, Development Site B, Development Site D, Retail Development Site (including Outlots A and B), Proposed Stormwater Detention Area - North, and Proposed Stormwater Detention Area - South. The subject property is currently occupied by an approximate 10,000 ft2 former fire house (an historic landmark) located on the north-central portion of the site. The Remediation Site contains approximately 10.5 acres of land and the majority of the site consists of vacant land with scattered remnant concrete foundations, gravel and/or broken asphalt, and grassy areas. Current and former city streets and alleys are also present within the boundaries of the Remediation Site (Figure 1).

The topography of the Remediation Site and adjacent sites is relatively level, with no significant natural relief features. According to the most recent 7.5-minute series USGS map available, dated 2012 (see Appendix B), the elevation of the Remediation Site is approximately 600 feet above mean sea level.

1.2.2 Uses of Remediation Site & Surrounding Area

The Remediation Site and surrounding properties are located within the municipal limits of the City of Chicago. The Remediation Site is currently nearly vacant, and there have been no active operations conducted on site for many years. Based on a review of historical Sanborn Fire Insurance Maps, the Remediation Site was historically occupied by numerous individual city lots that were mainly occupied by residential dwellings but also contained various commercial structures. An interpretation of aerial

photographs indicate that at some time between 1962 and 1972, the subject property underwent significant changes including demolition of many of the residential structures, reconfiguration of city streets, and conversion to primarily commercial uses.

The (known) intended future uses of the Remediation Site are for commercial/retail development purposes. A review of the City of Chicago Zoning Map (2009) indicates the Remediation Site is located in a Commercial District (zoned "C1-2") and the adjacent sites are mixed-use in nature - planned development, business, and residential (Appendix B). An aerial photograph showing the Remediation Site and surrounding properties is provided in Appendix B and the following provides a summary of the adjacent properties.

The following provides a summary of the adjacent properties noted during the site investigation.

North: The Remediation Site is bordered to the north by West 63rd Parkway, followed by mixed business, planned development, commercial and residential properties.

East: The Remediation Site is bordered to the east by South Halsted Street, followed by mixed commercial, planned development, and residential properties. Kennedy-King College is located to the east and southeast of the subject property.

South: The Remediation Site is bordered to the south by West 63rd Street, followed by mixed planned development and commercial properties. A bank and elevated train ("L") tracks for the CTA's Green Line are located to the south of the subject property.

West: The Remediation Site is bordered to the west by Sangamon Street and West 63rd Parkway, followed by commercial, business, and residential properties.

An aerial photograph of the site and vicinity is provided in Appendix B.

1.2.3 Description of Remediation Site

Please see Appendix A for details of PINs and legal descriptions.

1.2.4 Prior Environmental Activities

Pioneer was provided with copies of various prior environmental assessment reports and documents related to the Remediation Site. The available reports included the following:

- *Phase I Environmental Site Assessment (ESA)*, dated October 9, 2008, prepared by EPS Environmental Services, Inc.
- *Test Pits Report* (a geotechnical report), dated October 17, 2008, prepared by Terracon.
- *Subsurface Investigation Report*, dated February 11, 2013, prepared by Pioneer.

The *Phase I Environmental Site Assessment (ESA)* report prepared by EPS in 2008 identified three recognized environmental conditions (RECs) at the subject site. The RECs included: 1) the physical and documented evidence of several (approximately 7-10) former and/or current underground storage tanks (USTs) located on various parcels of the site; 2) the historical uses of certain parcels for auto repair operations and a gasoline filling station; and, 3) the presence of subgrade demolition debris and petroleum odors observed during the excavation of certain test pits related to the aforementioned geotechnical work by Terracon. Please note Pioneer was provided an excerpt that included only the text of the Phase I ESA prepared by EPS. A copy of the Phase I ESA is being provided under separate cover.

The *Test Pits Report* (a geotechnical report) prepared by Terracon in 2008 was a geotechnical investigation that utilized exploratory test pit excavation activities to evaluate subsurface conditions for a proposed retail redevelopment. These activities identified the presence of buried debris, remnant foundations, and fill materials throughout the site. Fill materials consisting of a heterogenous mixture of sand, clay, gravel, cinders, bricks, concrete, wood, and metal debris were discovered to depths that varied from approximately 3.5-11 feet below grade. The Terracon report stated that a gaseous odor was detected in one test pit while the EPS report stated that three test pits exhibited petroleum odors. No environmental sampling or chemical analyses were performed from the test pits at that time.

1.2.5 Recognized Environmental Conditions

As noted above, EPS's most recent Phase I ESA, dated October 9, 2008, identified the following RECs in connection with the Remediation Site:

- the physical and documented evidence of several (approximately 7-10) former and/or current underground storage tanks (USTs) located on various parcels of the site;
- the historical uses of certain parcels for auto repair operations and a gasoline filling station; and,
- the presence of subgrade demolition debris and petroleum odors observed during the excavation of certain test pits related to the aforementioned geotechnical work by Terracon.

1.2.6 Contaminants of Concern

A comprehensive NFR Letter is being sought for the Remediation Site. Therefore, pursuant to Title 35 Illinois Administrative Code Part 740, Section 740.420(b)(1), the COCs for the Remediation Site include the following:

- Target Compound List VOCs (35 IAC 740, Appendix A, Table A)
- Target Compound List SVOCs, including PNAs (35 IAC 740, Appendix A, Table B)
- Target Compound List Pesticides & Aroclors (35 IAC 740, Appendix A, Table C)

- Target Compound List Inorganics (35 IAC 740, Appendix A, Table D)

1.2.7 Regional Geology/Hydrogeology

Pioneer reviewed the Illinois State Geological Survey (ISGS) map, dated 1984, and titled Stack-Unit Mapping of Geological Materials in Illinois to a Depth of 15 Meters, by Kempton, John P. et al., and the ISGS map, dated 1970, and titled Surficial Geology of the Chicago Region by Willman and Lineback. According to the maps, the Remediation Site, which is located in Section 17, Township 38 North, Range 14 East of the Third Principal Meridian, is situated on sediments of the Carmi Member of the Equality Formation, underlain by sediments of the Dolton Member of the discontinuous Equality Formation, followed by sediments of the Wedron Group. The Carmi Member of the Equality Formation is described as quiet-water lake sediments, dominantly well-bedded silts with thin beds of clay. The Dolton Member of the Discontinuous Equality Formation is described as largely shallow-water, near-shore lake sediments in beaches, bars, spits, and deltas; dominantly medium-grained sand, containing beds of silt and local lenses of sandy gravel. The Wedron Group is composed of silty and clayey diamictons. Copies of the ISGS maps are included in Appendix B.

Based on an interpretation of the USGS and ISGS maps, localized groundwater flow is expected to be in an east/southeasterly direction. The nearest surface body of water is a pond within Sherman Park, located approximately 1 mile northwest of the Remediation Site. Lake Michigan is located approximately 3.5 miles east of the Remediation Site. A review of Plate 1 of the ISGS Circular, dated 1984 and titled Potential for Contamination of Shallow Aquifers in Illinois, by Berg, Richard C. et al., indicated that the regional geologic materials underlying the Remediation Site are near the boundary of two classifications, “E” to the west and “B1” to the east. An “E” classification is described as uniform, relatively impermeable silty or clayey till at least 50 feet thick with no evidence of inter-bedded sand/gravel. However, it should be noted that the site conditions appeared to correlate to a designation of “B1,” which is described as containing sand and gravel, less than 20 feet thick, over relatively impermeable till or bedrock.

1.3 Site-Specific Sampling Plan

The supplemental sampling plan implemented at the Remediation Site consisted of various stages of soil and/or groundwater investigation. The subsurface investigations completed by Pioneer included a ground penetrating radar (GPR) survey, performance of exploratory test pits in suspect areas identified by the GPR survey, advancement of 45 soil borings, and installation of seven groundwater monitoring wells.

Pioneer also reviewed various historical Sanborn maps in order to compare the locations of the former auto repair shops, gasoline station, and gasoline USTs, which were shown to be located on certain parcels of land throughout the subject property, to the current site layout. Historical tank permits were also correlated to former property addresses, as that could be interpreted from the Sanborn maps, in an effort to target possible tank locations. To note, as discussed in Section 1.4.1 of this report, Pioneer performed a GPR survey to specifically investigate potential UST locations.

The sampling plan associated with Pioneer's subsurface investigation activities are summarized in the following table (See Figures 1-4).

Table 1-1 – Sampling Plan

Soil Boring ID	Total Depth (ft)	Interval Sampled (ft)	Analysis	Investigation Purpose
January 2013				
B-1	12	--	--	Near 1,500-gallon heating oil tank on northwest corner of firehouse (Removal #4)
B-2	12	4-8	BTEX, PNAs	Near 1,500-gallon heating oil tank on northwest corner of firehouse
B-3	12	4-8	BTEX, total lead & pH	Approximate location of gasoline UST denoted in Sanborn map
B-4	12	4-8	BTEX, PNAs	Near 2,000-gallon heating oil tank (UST #2) and location of former auto repair denoted in Sanborn map
B-5	12	4-8	VOCs, PNAs, TRPH, RCRA 8 metals & pH	Near 2,000-gallon heating oil tank (UST #2) and location of former auto repair denoted in Sanborn map
B-6	12	0-4	VOCs, PNAs, RCRA 8 metals & pH	Approximate location of former "heater room" denoted in Sanborn maps
B-7	12	4-8	BTEX, total lead & pH	Near three gasoline tanks denoted in Sanborn maps
B-8	12	4-8	BTEX, total lead & pH	Near three gasoline tanks denoted in Sanborn maps
B-9	12	0-3	BTEX, PNAs	Approximate location of former "heating plant" denoted in Sanborn maps
B-10	12	4-8	BTEX, PNAs, TRPH	Located on property with a tank permit record
B-11	12	0-3	BTEX, PNAs	Approximate location of "heater room" denoted in Sanborn maps
B-12	12	0-3	VOCs, PNAs, RCRA 8 metals & pH	General site coverage and near test pit with odors and staining (Suspect UST #8).
B-13	12	0-3	VOCs, PNAs, RCRA 8 metals & pH	General site coverage
B-14	12	0-3	VOCs, PNAs, RCRA 8 metals & pH	General site coverage
B-15	12	0-3	VOCs, PNAs, RCRA 8 metals & pH	General site coverage
B-16	12	0-3	VOCs, PNAs, RCRA 8 metals & pH	General site coverage
B-17	12	0-3	VOCs, PNAs, RCRA 8 metals & pH	General site coverage
B-18	12	0-3	VOCs, PNAs, RCRA 8 metals & pH	General site coverage

Soil Boring ID	Total Depth (ft)	Interval Sampled (ft)	Analysis	Investigation Purpose
B-19	12	4-8	VOCs, PNAs, RCRA 8 metals & pH	General site coverage
B-20	12	0-3	VOCs, PNAs, RCRA 8 metals & pH	General site coverage
B-21	12	0-3	VOCs, PNAs, RCRA 8 metals & pH	Approximate location of former "heating building" denoted in Sanborn maps
B-22	12	--	--	Located on property with a tank permit record.
February 2014				
B-101	10*	0-3	PNAs, RCRA 8 metals & pH	General site coverage-Development Site D
B-102	12	0-3	TCL, SPLP Sb, SPLP Se	General site coverage-Development Site D
B-103	12	0-3	TCL	Further assessment near Suspect UST 4 and Removal area 3-Proposed Stormwater Detention Area - North
B-104	12	0-3	PNAs, RCRA 8 metals & pH	Further assessment near Removal area 3-Proposed Stormwater Detention Area - North
B-105	12	0-3	TCL, TOC	General site coverage-Proposed Stormwater Detention Area - South
B-106	12	0-3	PNAs, RCRA 8 metals & pH	General site coverage-Proposed Stormwater Detention Area - South
B-107	12	0-3	TCL	General site coverage-Development Site B
B-108	12	0-3	PNAs, RCRA 8 metals & pH	General site coverage-Development Site B
		4-8	TRPH	Further assessment of field observations at B-3-Development Site B
		8-12	--	General site coverage-Development Site B
B-109	12	0-3	PNAs, RCRA 8 metals & pH	Further assessment near Suspect UST 8 and Removal area 7-Retail Development Parcel
B-110	12	0-3	--	General site coverage-Retail Development Parcel
		4-8	TCL	
B-111	12	0-3	PNAs, RCRA 8 metals & pH	Further assessment near Removal area 5-Retail Development Parcel
B-112	12	0-3	PNAs, RCRA 8 metals & pH	General site coverage-Retail Development Parcel (Outlot B)
B-113	12	0-3	PNAs, RCRA 8 metals & pH	Further assessment near Suspect UST 1 and Removal area 1-Development Site A
		0-3	PNAs, RCRA 8 metals & pH	General site coverage-Development Site A

Soil Boring ID	Total Depth (ft)	Interval Sampled (ft)	Analysis	Investigation Purpose
B-114	12	4-8	TRPH	Further assessment of field observations at B-19 and delineate TRPH impact at B-10-Development Site A
		8-12	--	General site coverage-Development Site A
B-115	12	0-3	PNAs, RCRA 8 metals & pH	General site coverage-Development Site A
		4-8	VOCs, PNAs, RCRA 8 metals & pH, TRPH	Delineate TRPH impact at B-10
B-116	12	0-3	PNAs, RCRA 8 metals & pH	General site coverage-Development Site A
		4-8	TCL	Further assessment near Removal area 2 and delineate TRPH impact at B-10
B-117	10*	0-3	PNAs, RCRA 8 metals & pH	General site coverage-Development Site A
B-118	12	0-3	PNAs, RCRA 8 metals & pH, SPLP Pb	General site coverage-Development Site A
B-119	12	0-3	PNAs, RCRA 8 metals & pH	General site coverage-Retail Development Parcel
		4-8	PNAs, RCRA 8 metals & pH, TRPH	Further assessment of field observations at B-8
B-120	12	0-3	VOCs, PNAs, RCRA 8 metals & pH	General site coverage-Retail Development Parcel
B-121	12	0-3	PNAs, RCRA 8 metals & pH	Further assessment near Suspect UST 7
B-122	12	0-3	VOCs, PNAs, RCRA 8 metals & pH, TCLP Hg	General site coverage-Retail Development Parcel (Outlot A)
B-123	7*	0-3	VOCs, PNAs, RCRA 8 metals & pH	General site coverage-Retail Development Parcel (Outlot A)
MW-1	15	N/A	TCL	Assess potential indoor inhalation pathway concerns in area of potential future building footprint
MW-2	15	N/A	VOCs, PNAs, RCRA 8 metals	Assess potential indoor inhalation pathway concerns in area of potential future building footprint
MW-3	15	N/A	TCL	Assess potential indoor inhalation pathway concerns in area of potential future building footprint
MW-4	15	N/A	TCL	Assess potential indoor inhalation pathway concerns in area of potential future building footprint
MW-5	15	N/A	TCL	Assess potential indoor inhalation pathway concerns in area of potential future building footprint

Soil Boring ID	Total Depth (ft)	Interval Sampled (ft)	Analysis	Investigation Purpose
MW-6	15	N/A	VOCs, PNAs, RCRA 8 metals	Assess potential indoor inhalation pathway concerns in area of potential future building footprint
MW-7	15	N/A	VOCs, PNAs, RCRA 8 metals	Assess potential indoor inhalation pathway concerns in area of potential future building footprint

Notes: PCBs = polychlorinated biphenyls
PNAs = polynuclear aromatic hydrocarbons
RCRA 8 metals = Resource Conservation & Recovery Act (arsenic, barium, cadmium, chromium lead, mercury, selenium, silver)
SPLP = synthetic precipitation leaching procedure
SVOCs = semivolatile organic compounds
TCL = Target Compound List per 35 IAC Part 740, Appendix A
TCLP = toxicity characteristic leaching procedure
TRPH = total recoverable petroleum hydrocarbons
VOCs = volatile organic compounds
* = indicates boring encountered refusal

1.4 Documentation of Field Activities

1.4.1 Ground Penetrating Radar (GPR) Survey and Test Pits

In an effort to determine if any USTs are currently located on the Remediation Site, a GPR survey was performed from December 19 through December 22, 2012. The GPR survey was performed throughout the Remediation Site. The GPR survey identified 8 suspect UST locations (designated as Suspect UST #1, etc.), 7 suspect excavation/tank removal areas (designated as Removal #1, etc.), and 13 areas where unknown anomalies were encountered (designated as Unknown #1, etc.). See Appendix E for documentation associated with the GPR survey and Figures 3 and 4 for locations of anomalies identified by the GPR survey.

To further evaluate the subsurface anomalies, exploratory test pits were excavated on January 8 and 9, 2013. Of the 28 anomalies identified at the site, Pioneer further investigated 23 locations. The remaining anomalies were located within existing streets and/or right-of-ways or near utilities, which prevented excavation of test pits at those locations. The test pit activities identified two USTs. An estimated 2,000-gallon UST was found at the Suspect UST #2 location (see Figures 3 and 4), which was buried approximately two feet below surface grade (BSG) and contained 46 inches of oil, which appeared to be heating oil. Additionally, an estimated 1,500-gallon heating oil UST was found at the northwest corner of the firehouse (Removal #4) and contained 51 inches of product, which also appeared to be heating oil.

Furthermore, a concrete trough was discovered below a tile surface overlying a remnant concrete slab at Removal #2. The trough was approximately 2’ x 1’ and appeared to be 1’ deep, and led to a 4’ x 4’ area that was also 1’ deep and had a metal lid. The trough and 4’ x 4’ pit were filled with water and contained debris (broken concrete) and a sludgy material.

The remaining test pits were generally found to contain fill material, rubble and debris to approximately 4-5 feet BSG, followed by native silt or sand/clay. It should be noted that minor soil discoloration and slight odors were observed in the test pit at Suspect UST #8, although there was no tank found at this location. The test pit excavations were backfilled with the excavated material. See Appendix E for a summary of the test pit findings.

1.4.2 Soil Boring Advancement/Sampling

Pioneer mobilized subsurface drilling equipment and OSHA-certified personnel to the Remediation Site on January 9-11, 2013, and advanced 22 soil borings as part of an initial assessment of the site. Pioneer subsequently remobilized on February 19 and 20, 2014, and advanced an additional 23 soil borings on the Remediation Site (see Figure 1). See Figure 2 for soil boring locations overlaid onto the proposed site redevelopment plan. Soil boring placement was selected based on the location of potential and actual USTs and the results of the GPR survey and test pits, an evaluation of the site's potential environmental concerns, and the proposed redevelopment plan. A summary of the soil sampling plan and rationale is outlined in Table 1-1 above.

Sample collection procedures implemented in the field by Pioneer were performed in accordance with the industry standard ASTM D 6282, and SW-846 Method 5035, and were consistent with generally accepted engineering practices. After the sample from each interval was retrieved, the undisturbed soil sample was immediately field screened within the sample liner using a Mini-Rae 2000 hand-held photoionization detector (PID), a device sensitive to a variety of VOCs, to provide a qualitative indication of the relative concentrations of contaminants in the soil samples.

A sample was then immediately selected from the portion of the interval displaying the highest field screening results (where elevated screening results were observed) and preserved in accordance with Method 5035 using laboratory-provided, pre-labeled, 40-milliliter vials. These subsamples of soil were collected following the single-transfer protocol discussed in the SW-846 Method 5035 guidance using EasyDraw Syringes™ and a Powerstop Handle™, and directly transferred to the 40-milliliter vials following collection. The subsamples were collected from undisturbed portions of the soil intervals to ensure that volatilization had not occurred. Additional soil samples were subsequently packed directly into unpreserved, pre-labeled, four-ounce jars as needed. Packed sample containers were placed on ice in a cooler. The cooler was retained in the possession of Pioneer personnel at all times. Upon completion of the field activities, samples were delivered to a NELAC-certified, independent laboratory under standard chain-of-custody procedures, or were delivered to Pioneer's office and transferred from the cooler to a refrigerator dedicated to storing soil and groundwater samples. The samples were contained within the refrigerator until they were relinquished to a NELAC-certified, independent laboratory under standard chain-of-custody procedures. The temperature within Pioneer's sample storage refrigerator is maintained at 40 to 42 ºF. All samples were analyzed within the appropriate hold time.

The remaining portions of soil from the sample intervals were logged according to their predominant geological characteristics in accordance with the Unified Soil Classification System (USCS), and allowed to equilibrate to ambient temperatures (approximately 15 minutes) in an airtight Ziplock™ bag for further field screening. The maximum screening results and geological conditions are listed on the soil boring logs provided in Appendix C, along with Pioneer's standard soil investigation protocol. Soil boring locations are depicted on Figure 1.

1.4.3 Groundwater Monitoring Well Installation/Sampling

Pioneer installed seven groundwater monitoring wells at the Remediation Site on February 19, 2014. The purpose of the groundwater investigation was to evaluate the condition of groundwater beneath the site and address the indoor inhalation pathway within the footprint of proposed structures based on the redevelopment plan known to date. The boreholes for all monitoring wells (MW-1 to MW-7) were drilled using a track-mounted Geoprobe 7822DT drill rig, and the wells were constructed of 2-inch internal diameter, schedule 40, flush-joint PVC screen and riser pipes (10-foot screens and 5-foot risers). Groundwater monitoring well locations are presented on Figures 1 and 2.

The annular space surrounding each screen was backfilled with silica sand to a height not less than 1 foot above the top of the well screen, and bentonite chips were placed above the sand to provide a low permeability seal. The remaining annulus was sealed with a cement/bentonite grout to the ground surface. All wells were completed with flush-mounted protective casings and locking well caps and secured with concrete at the surface. Monitoring well logs are included in Appendix C, along with a protocol for Pioneer's groundwater investigation activities.

The wells were developed and sampled using new disposable PVC bailers dedicated to each well. Prior to sampling on March 3, 2014, approximately five to six well volumes of water were purged from the wells, until the well water was visually clear of suspended sediments or until further yield could not be achieved. Water levels were allowed to recharge prior to the collection of groundwater samples to ensure the collection of accurate and representative data. Groundwater samples were carefully decanted into laboratory-provided glassware. The filled sample containers were immediately packed on ice in a cooler.

Sample coolers were retained in the possession of Pioneer personnel at all times, and upon completion of the field activities and returning to Pioneer's office, samples were transferred directly from the coolers into a refrigerator dedicated to storing soil and groundwater samples. The samples were contained within the refrigerator until they were relinquished to a NELAC-certified, independent laboratory under standard chain-of-custody procedures. The temperature within Pioneer's sample storage refrigerator is maintained at 40 to 42 ºF. All samples were analyzed within the appropriate hold time.

1.4.4 Field Observations

Elevated PID readings, petroleum odors and/or soil discoloration were encountered in soil borings B-3, B-4, B-5, B-7, B-8, B-10, B-11, B-19, B-110, B-115, and B-116. No obvious field evidence of impact was noted in the remaining soil borings advanced at the site. A complete listing of the geological conditions and field observations encountered during drilling are provided on the soil boring logs in Appendix C. A photographic log of the soil sampling and field activities and monitoring well logs are provided in Appendix C of this submittal.

1.4.5 Site Geology

The soil borings were advanced through a surface finish of topsoil, asphalt or concrete. The surface finish was generally underlain by sand, gravel, clay, silt and urban debris/fill material that extended to approximately 4-5 feet BSG. The fill material was followed by brown, gray and/or black sandy silt extending to 10-11 feet BSG, overlying a gray silty clay that extended to the maximum depth of 13 feet BSG. In soil borings B-21, B-101, B-107, B-112, B-117, B-120, and B-123, the fill material extended to 9-11 feet BSG, followed by gray silty clay, and in soil boring B-20, a 2-foot layer of brown fine sand was encountered between the fill and silt layers. Evidence of groundwater was generally encountered from 6-7 feet BSG during Pioneer's soil boring activities. To note, boring refusal was encountered at various boring locations and was presumed to be related to remnant foundations/basements of former structures. A complete listing of the geological conditions encountered during Pioneer's drilling activities is provided on the soil boring logs in Appendix C.

1.4.6 Site Hydrogeology

1.4.6.1 Hydraulic Gradient

An elevation survey was conducted to obtain well casing elevations for calculating groundwater elevations. An arbitrary site datum of 100.00 feet was used as a benchmark to initiate the survey, and well casing elevations were measured to the nearest 0.01-foot relative to the established benchmark using standard surveying techniques. Water levels were allowed to recharge to static conditions prior to the collection of groundwater samples or elevation data, to ensure the collection of accurate and representative data. Water level measurements were recorded using a Sonic Interface Probe, and were compared with the respective casing elevations to calculate water level elevations and apparent groundwater flow direction. The following table summarizes water elevations recorded on March 3, 2014.

Table 1-2 Groundwater Elevation Data

Monitoring Well	Well Elevation	Depth to Water	Water Table Elevation
MW-1	89.39	8.52	80.87
MW-2	90.10	4.85	85.25
MW-3	90.08	5.51	84.57
MW-4	90.55	4.82	85.73
MW-5	90.35	4.65	85.7
MW-6	89.53	9.10	80.43
MW-7	89.54	7.80	81.74

Notes: All measurements presented in feet
Well elevations referenced to arbitrary site datum of 100.00 feet
Depth to water referenced to top of inner casing

A site-specific hydraulic gradient was calculated by utilizing an online hydraulic gradient calculator provided by the US EPA (Appendix D) using the groundwater elevation data obtained from the site. The hydraulic gradient for the Remediation Site was calculated to be 0.007 ft/ft based on the groundwater data, and indicates an easterly direction of flow. A groundwater contour map is provided as Figure 7.

1.4.6.2 Hydraulic Conductivity

The site's hydrogeological conditions were further evaluated by conducting hydraulic conductivity testing. Specifically, an aquifer slug test was performed on MW-5 on March 11, 2014. The basic methodology of the individual aquifer slug test consisted of lowering a TROLL 4000™ submersible, data logging, pressure transducer into the well and documenting changes in water table elevations during the performance of the slug test. The transducer and water table were allowed to equilibrate prior to commencing with the slug test. Water levels were recorded by the transducer as a function of time and were monitored in the field with a hand-held-computer and Pocket-Situ™ communication software. Upon completion of the field activities, the data were downloaded from the TROLL 4000™ and analyzed.

Pioneer selected the Bouwer-Rice method for slug test data interpretation and employed this analysis using proven groundwater modeling software (AquiferTest, Version 4.0). The water level measurements and graphical interpretation of the data for the slug test are included in Appendix D of this report. The slug test performed on MW-5 yielded a hydraulic conductivity value of 3.33×10^{-5} cm/s (note: the results presented on the data sheets in Appendix D are listed in units of m/s).

1.4.6.3 Groundwater Classification

Given the geology encountered at the subject property and published geological information, a Class II groundwater demonstration was evaluated to illustrate that groundwater beneath the subject property may be classified as Class II groundwater, thereby allowing the use of the less stringent but more applicable remediation objectives for Class II groundwater in accordance with 35 IAC 742.500 (a).

Pursuant to 35 IAC 620.220, groundwater can be classified as Class II if it does not meet the criteria for Class I groundwater. Class I groundwater is defined in 35 IAC 620.210 as groundwater located 10 feet or more below the land surface *and* within:

- *The minimum setback zone of a well which serves as a potable water supply and to the bottom of such well;*
- *Unconsolidated sand, gravel, or sand and gravel which is 5 feet or more in thickness and that contains 12 percent or less fines;*
- *Sandstone which is 10 feet or more in thickness, or fractured carbonate which is 15 feet or more in thickness; or*
- *Any geological material which is capable of sustained groundwater yield of 150 gallons a day or has a hydraulic conductivity of 1 x 10^{-4} cm/sec or greater.*

Evidence of groundwater was encountered during soil boring activities between 5 to 11 feet BSG, depths to water in Pioneer's monitoring wells ranged from 4.65 to 9.10 feet BSG, and the aquifer slug test yielded a hydraulic conductivity value of 3.33 x 10^{-5} cm/s. Furthermore, according to the results of a potable water well survey (see following discussion), no active potable wells are located within a 2,500-foot radius of the site. In addition, no native sand or gravel lenses containing 12 percent or less fines and greater than 5 feet in thickness were encountered at the subject site, and no sandstone or fractured carbonate bedrock was encountered during assessment activities performed at the subject site.

Based on this information, Pioneer believes that the combined site-specific and published geological information is sufficient to justify the classification of on-site groundwater as Class II – General Resource Groundwater pursuant to Section 620.220.

1.4.6.4 Potable Well Survey

There are no known potable water supply wells located at the Remediation Site or surrounding properties (as evidenced by visual [exterior] inspections), and the Remediation Site and surrounding properties within approximately 2,500 feet of the Remediation Site are within the City of Chicago, for which potable water consists of treated Lake Michigan water. Additionally, Chicago maintains an ordinance (along with a Memorandum of Understanding) that prohibits the use of groundwater for potable purposes. However, in accordance with the regulations, Pioneer reviewed the Illinois EPA's Source Water Assessment Program (SWAP) website and conducted a search for wells using the ArcIMS mapping tool. The following bullet points provide a summary of the information obtained during this well survey.

- Non-Community Water Supply Well Records: The SWAP database indicates there are no non-community water supply wells within a 2,500-foot radius of the Remediation Site.

- Community Water Supply Well Records: The SWAP database indicates there are no community water supply wells within a 2,500-foot radius of the Remediation Site, and the site is not located within the setback zone of any potable wells.

- ISGS Well Records: The SWAP database indicates there are no ISGS wells within a 2,500-foot radius of the Remediation site.

- Chicago Department of Water Management: Pioneer reviewed a document prepared by the Chicago Department of Environment and titled "Survey of City of Chicago Water Wells" (http://www.cityofchicago.org/city/en/depts/dgs/supp_info/water_well_survey.html), which reportedly included a review of Chicago Department of Water Management records; this document indicates that no active wells are located within 2,500 feet of the Remediation Site.

The minimum setback zone for most potable wells is 200 feet, although if a well is set in highly permeable bedrock or unconfined sand and gravel formation, the minimum or maximum designated setback zone could range from 400 to 1,000 feet. Based on the available information, the Remediation Site is not located within the minimum or maximum designated setback zones of any potable wells. Documentation associated with this well survey is provided in Appendix F.

1.5 Endangerment Assessment

As outlined in Section 1.3 of this combined CSIR/ROR/RAP, soil and groundwater samples were collected from the Remediation Site in order to address the RECs and fully evaluate potential environmental concerns identified in connection with the Remediation Site.

The analytical results outlined herein are compared to the residential Tier 1 Soil Remediation Objectives (SROs) and Groundwater Remediation Objectives (GROs) found in 35 IAC 742 (TACO). Tier 1 SROs are based on a risk assessment that incorporates a conservative exposure scenario and yields values relative to three primary exposure routes, namely soil ingestion, outdoor inhalation, and the soil component of the groundwater ingestion exposure route (also known as the migration to groundwater exposure route). The Tier 1 SROs for the ingestion and outdoor inhalation exposure routes are dependent upon the populations of concern (residential, industrial/commercial, and construction worker populations). The Tier 1 SROs for the migration to groundwater route and the Tier 1 GROs for direct contact with groundwater are divided into Class I and Class II groundwater designations. The Tier 1 GROs established for the indoor inhalation exposure route are also dependent upon the populations of concern (residential or industrial/commercial). Pursuant to the Part 742 regulations, the values for each of the applicable exposure routes must be presented for matters of comparison and the most stringent is used as the remediation objective for a particular contaminant.

1.5.1 Exposure Routes & Migration Pathways

The Remediation Site is currently occupied by one (abandoned) structure and the surface of the site contains remnant concrete and asphalt pavements, gravel and dirt. The Remediation Site will be redeveloped with retail stores, parking lots, and other to-be-determined structures which may include residential facilities. Therefore, the applicable remediation objectives for the soil ingestion and outdoor inhalation exposure routes include the Tier 1 SROs for residential and construction worker populations, and the applicable remediation objectives for the indoor inhalation exposure route include the diffusion and advection Tier 1 GROs for residential property. Furthermore, since groundwater at the site is classified as Class II groundwater (as discussed in Section 1.4.6.3), the SROs for the migration to Class II groundwater exposure route and the Tier 1 GROs for Class II groundwater shall apply to the Remediation Site. Although the analytical data tables provided in the "Tables" section of the appendices of this report include the SROs and GROs for Class I groundwater, the Class I groundwater pathway is not an applicable exposure route for the Remediation Site, and the associated SROs and GROs are provided for reference purposes only.

As a further note, in accordance with 35 IAC 742, Appendix B, Table A, since the Remediation Site is located in a populated area as defined by 35 IAC 742.200, applicable background concentrations for certain PNA compounds will be utilized in place of the Tier 1 SROs for the soil ingestion exposure route. The applicable (Chicago) background concentrations provided in 35 IAC 742, Appendix A, Table H will be used in place of the default Tier 1 SROs for the residential soil ingestion exposure route for the following five PNA compounds: benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; dibenzo(a,h) anthracene; and indeno(1,2,3-cd)pyrene.

The proposed improvements of the Remediation Site will limit the potential for exposure to impacted soil. Further, based on the potable well data, which indicates no active potable wells are located within 2,500 feet from the Remediation Site, potential for exposure via the groundwater ingestion exposure route is essentially eliminated. Considering the site-specific factors and proposed redevelopment, the potential for human exposure to COCs via the four primary exposure pathways considered under TACO (soil ingestion, outdoor and indoor inhalation, and groundwater ingestion) is relatively low; however, these pathways are considered "active" until a formal exclusion of the pathway has been completed.

Available subsurface investigation data does not provide evidence that contaminants are migrating along utility corridors or other man-made, preferential pathways. Given the nature of the contamination and considering the site-specific geologic conditions, Pioneer believes the primary fate and transport of contaminants in the subsurface will be largely controlled by adsorption and diffusion, while advective flow of groundwater below the site will be minimal.

1.5.2 Tier 1 Evaluation – Soil

The analytical results from Pioneer's supplemental subsurface investigation activities indicate that certain PNAs and metals were detected at concentrations that exceed the applicable Tier 1 SROs in 34 of the

soil samples analyzed. In addition, the concentrations of TRPH in two samples exceeded the default soil attenuation value for subsurface soils and the concentration of mercury in one sample exceeded the default soil saturation limit for elemental mercury. The following table provides a summary of the soil sample locations where the applicable Tier 1 SROs were exceeded.

Table 1-3 Soil Sample Locations Where COCs Exceed Applicable Tier 1 SROs

Sample ID	Ingestion (residential)	Inhalation (residential)	Ingestion (construction worker)	Inhalation (construction worker)	Migration to Class II Groundwater	Default Soil Attenuation Capacity (subsurface soils)
B-4 (4'-8')						
B-5 (4'-8')	BaA, BaP					TRPH
B-6 (0-4')	BaA, BaP, BbF, D, I			Hg		
B-9 (0-3')	BaA, BaP, BbF, D, I					
B-10 (4'-8')						TRPH
B-12 (0-3')				Hg		
B-13 (0-3')	BaA, BaP, BbF, D					
B-14 (0-3')				Hg		
B-15 (0-3)	BaA, BaP, BbF, D, I					
B-16 (0-3')	BaA, BaP, BbF, D			Hg		
B-17 (0-3')				Hg		
B-18 (0-3')				Hg		
B-20 (0-3')	BaA, BaP, BbF, D, I			Hg		
B-21 (0-3')	BaA, BaP, BbF			Hg		
B-101 (0-3')				Hg		
B-102 (0-3)	BaA, BaP, BbF, D			Hg	Sb*, Se*	
B-103 (0-3')	BaA, BaP, BbF, D			Hg	Sb, Se	
B-104 (0-3')	BaA			Hg		
B-106 (0-3')				Hg		
B-107 (0-3')				Hg		
B-109 (0-3')				Hg		
B-111 (0-3')				Hg		
B-112 (0-3')	BaA, BaP, BbF, D, I			Hg		
B-113 (0-3')	BaA, BaP, BbF, D, I			Hg		
B-114 (0-3')	BaA, BaP, BbF, D, I			Hg		
B-116 (0-3')	Pb		Pb	Hg		
B-116 (4'-8')				Hg		
B-117 (0-3')				Hg		
B-118 (0-3')	Pb		Pb	Hg	Pb*	
B-119 (0-3')				Hg	Se*	
B-120 (0-3')	BaA, BaP, BbF, D, I			Hg		
B-121 (0-3')	BaA			Hg		
B-122 (0-3')	BaA, BaP, BbF, D, I, Pb		Pb	Hg*		
B-123 (0-3')				Hg		

Notes:
B(a)A = benzo(a)anthracene
B(a)P = benzo(a)pyrene
B(b)F = benzo(b)fluoranthene
D = dibenzo(a,h)anthracene
Hg = mercury
I = indeno(1,2,3-cd)pyrene
Pb = lead
Sb = antimony
Se = selenium
TRPH = total recoverable petroleum hydrocarbons
* = SPLP or TCLP result shows compliance (below Tier 1 SROs)

The total concentrations of antimony, selenium, and lead in four soil samples (B-102 [0-3'], B-103 [0-3'], B-118 [0-3'], and B-119 [0-3']) were above the remediation objectives for the migration to Class II groundwater exposure route. The highest concentrations of total antimony and selenium were detected in B-102 (0-3'), and the highest concentration of total lead was detected in B-118 (0-3'). As allowed by the regulations, Pioneer requested the analysis of the samples with the highest total concentrations of these metals using the SPLP method in order to further evaluate the migration to Class II groundwater exposure route.

The result of the SPLP antimony analysis indicated the concentration was below the most stringent Tier 1 SRO (0.00366 ppm, which is less than the applicable Tier 1 SRO of 5 ppm). The result of the SPLP selenium analysis indicated the concentration was below the most stringent Tier 1 SRO (0.00372 ppm, which is less than the applicable Tier 1 SRO of 5 ppm). The result of the SPLP lead analysis indicated the concentration was below the laboratory detection limit (<0.0067 ppm, which is less than the applicable Tier 1 SRO of 0.0075 ppm). Considering the results of the SPLP analyses (Table 10), and given that antimony, selenium, and lead were not detected at concentrations exceeding the applicable Tier 1 GROs in any of the groundwater samples collected from the Remediation Site, Pioneer does not believe that further evaluation of these metals is warranted.

As mentioned, the total concentration of mercury detected in B-122 exceeded its default soil saturation limit. Pioneer subsequently requested the sample be analyzed using the TCLP method to confirm its concentration did not exceed the toxicity characteristic for a hazardous waste (Table 11). The analytical result indicated the TCLP value was below the laboratory detection limit (<0.0002 ppm, which is less than the toxicity characteristic value of 0.2 ppm).

A complete listing of the soil sample analytical results is provided in Tables No. 1 through 11 (in the "Tables" section of the appendices). Copies of the complete laboratory analytical reports associated with Pioneer's investigation are included in Appendix G of this report.

1.5.3 Tier 1 Evaluation – Groundwater

The analytical results for samples collected from Pioneer's groundwater monitoring wells identified no COCs at concentrations exceeding the applicable Tier 1 GROs for the Class II groundwater ingestion pathway or the residential indoor inhalation pathway in any of the groundwater samples analyzed. A complete listing of the analytical results for the supplemental groundwater samples is provided in Table Nos. 12 through 18 (in the attachments), and the laboratory analytical reports for samples collected by Pioneer are included in Appendix G.

1.6 Conclusions

A combined total of 45 soil borings were advanced and 48 soil samples were analyzed for various COCs, including five TCL analyses for soil and four TCL analyses for groundwater, as part of the characterization of

the Remediation Site. The cumulative analytical results indicate that certain PNAs, metals, and TRPH exceed the Tier 1 SROs for various combinations of the ingestion, outdoor inhalation, soil saturation limit, and soil attenuation capacity values. Impacts were identified in soil samples collected in various areas throughout the site. The identified contamination is primarily found within the shallow urban debris/fill materials situated above native sandy silt. There were no exceedances of the applicable Tier 1 GROs for any of the COCs. Pioneer believes the cumulative soil and groundwater data demonstrate that the RECs have been adequately assessed and that the site's contaminant conditions have been sufficiently delineated.

In order to determine the appropriate level of remedial action necessary to address the Tier 1 exceedances, and as discussed in the following Section 2.0 – Remediation Objectives Report, the various options available in TACO will be utilized to evaluate the potential for exposure to identified contaminants based on the site-specific conditions.

2.0 REMEDIATION OBJECTIVES REPORT

2.1 Introduction

The cumulative analytical results indicated that certain PNAs, metals and TPH were detected at concentrations exceeding the applicable Tier 1 SROs. No COCs were detected in groundwater at concentrations exceeding the applicable Tier 1 GROs. The following table identifies all applicable exposure routes and the COCs that exceed the corresponding Tier 1 SROs.

Table 2-1 Targeted COCs & Affected Exposure Routes

Targeted COC	Exposure Routes for Applicable Tier 1 SROs and GROs(1)							Default Soil Saturation (C_{sat})	Default Soil Attenuation Capacity
	Ingestion (residential)	Inhalation (residential)	Ingestion (construction worker)	Outdoor Inhalation (construction worker)	Migration to Class II Ground-water SRO	Class II Ground-water GRO	Indoor Inhalation (residential)		
benzo(a) anthracene	X	--	--	--	--	--	--	--	--
benzo(a) pyrene	X	--	--	--	--	--	--	--	--
benzo(b) fluoranthene	X	--	--	--	--	--	--	--	--
dibenzo (a,h) anthracene	X	--	--	--	--	--	--	--	--
indeno (1,2,3-cd) pyrene	X	--	--	--	--	--	--	--	--
antimony	--	--	--	--	--	--	--	--	--
lead	X	--	X	--	--	--	--	--	--
mercury	--	--	--	X	--	--	--	X	--
selenium	--	--	--	--	--	--	--	--	--
TRPH	--	--	--	--	--	--	--	--	X

Notes: (1) = Pursuant to the 35 IAC Part 742 (TACO) regulations
X indicates COC detected above Tier 1 remediation objectives for applicable exposure route
-- indicates exposure route objectives not exceeded by Targeted COCs

Based on the pathway-specific exceedances for the COCs, Pioneer calculated site-specific values for the soil saturation limit and the soil attenuation capacity and conducted an exposure route evaluation to determine whether the remaining affected exposure routes could be eliminated, pursuant to Part 742, Subpart C. This overall approach is summarized in the following Table 2-2.

Table 2-2 Approach for Addressing Affected Exposure Routes

Targeted COCs	Ingestion (residential)	Ingestion (construction worker)	Outdoor Inhalation (construction worker)	Default Soil Saturation (C_{sat})	Default Soil Attenuation Capacity
Select PNAs	Pathway exclusion (engineered barrier)	--	--	--	--
Lead	Pathway exclusion (engineered barrier)	Pathway exclusion (health and safety plan)	--	--	--
Mercury	--	--	Pathway exclusion (health and safety plan)	Site-specific calculation or hot spot remediation	--
TRPH	--	--	--	--	Site-specific calculation or hot spot remediation

Notes: -- indicates no Targeted COCs exceeding applicable Tier 1 remediation objectives
residential = exposure route for residental property
construction worker = exposure route for construction worker population
TRPH = total recoverable petroleum hydrocarbons

Certain PNAs, lead, and mercury exceed the Tier 1 SROs for the residential ingestion and construction worker ingestion and outdoor inhalation exposure pathways. These exceedances will be addressed through pathway exclusion as discussed below. Mercury and TRPH exceed the default soil saturation limit and default soil attenuation capacity values, respectively. These exceedances will be addressed by calculating site-specific values, or through the performance of limited "hot spot" remediation to remove the impacted soils.

2.2 Exposure Route Evaluation

The first step in an exposure route evaluation is to identify the exposure pathways that require further consideration. The following table identifies all applicable exposure routes and the Targeted COCs that exceed the corresponding Tier 1 remediation objectives. As provided in Subpart C of the Part 742 regulations, exposure pathways may be excluded from consideration if it can be demonstrated that an actual or potential impact to a receptor or potential receptor can be eliminated. If exposure pathways can be excluded, the corresponding objectives are no longer applicable.

Table 2-3 Targeted COCs & Affected Exposure Routes

Targeted COC	Exposure Routes for Applicable Tier 1 SROs		
	Ingestion (residential)	Ingestion (construction worker)	Outdoor Inhalation (construction worker)
PNAs	X	--	--
lead	X	X	--
mercury	--	--	X

Notes: X indicates COC detected above Tier 1 remediation objectives for applicable exposure route
-- indicates exposure route objectives not exceeded by Targeted COCs

As shown in Table 2-3, the affected exposure routes include the soil ingestion exposure route for residential properties and the ingestion and outdoor inhalation exposure routes for construction workers.

2.2.1 Contaminant Source and Free Product Determination

As outlined in 35 IAC 742.305, prior to elimination of any pathways, certain minimum requirements must be evaluated and satisfied. These requirements are provided below and are followed by an explanation of how they apply to the Remediation Site.

- *The sum of the concentrations of all organic COCs shall not exceed the attenuation capacity of the soil as determined under Section 742.215 (Section 742.305(a));*

  The maximum potential sum of organic COCs at the site is 4,510 mg/kg of Total Recoverable Petroleum Hydrocarbons (TRPH) detected at B-10 (4'-8'). The default attenuation capacity for soil as provided in the TACO regulations is 6,000 mg/kg for soil within the top meter of land surface, and 2,000 mg/kg for soil greater than 1 meter below ground surface. The organic carbon fraction from sample B-112 (4-8), 0.0195 g/g, yielded a site-specific attenuation capacity of 19,500 mg/kg. Based on the available data, there is no evidence that the site-specific attenuation capacity value has been exceeded, and this requirement is satisfied.

- *The concentrations of any organic COCs remaining in the soil shall not exceed the soil saturation limit as determined under Section 742.220 (Section 742.305(b)).*

  No COCs were detected at concentrations exceeding the default soil saturation limits except mercury at B-122 (0-3'). Pursuant to 742.220(b), Pioneer calculated a site-specific soil saturation limit for mercury for surface soils using Equation S-29 and the site-specific organic carbon content from soil sample B-112 (4-8). The site-specific soil saturation limit was greater than the detected site concentration (see Spreadsheet 1, Appendix D). Therefore, this requirement is satisfied.

- *Any soil which contains COCs shall not exhibit characteristics of reactivity for hazardous waste (Section 742.305(c));*

  A soil sample from location B-116 (4'-8') was analyzed for reactive sulfide and reactive cyanide and the analytical results demonstrated that both were below the acceptable detection limits. Based on this information, Pioneer believes there is no evidence that the site's soils would exhibit the characteristic of reactivity, and this requirement is satisfied.

- *Any soil which contains COCs shall not exhibit a pH less than or equal to 2.0 or greater than or equal to 12.5 (Section 742.305(d)); and,*

  Multiple soil samples collected from the Remediation Site were analyzed for pH. The measured pH values ranged between 7.74 and 11.20; therefore, Pioneer believes there is no evidence to suggest that pH values at the site would be less than 2.0 or greater than 12.5, and this requirement is satisfied.

- *Any soil which contains arsenic, barium, cadmium, chromium, lead, mercury, selenium or silver shall not exhibit any of the characteristics of toxicity for hazardous waste (Section 742.305(e)); and,*

  A sample was analyzed from B-122 (0-3) for mercury by TCLP, and the result was below the maximum allowable concentration to meet the hazardous characteristic. Based on the total metal results from Pioneer's investigations, Pioneer believes it is unlikely that any other samples of the site's soils would exhibit the characteristic of toxicity. Therefore, this requirement is satisfied.

- *If COCs include polychlorinated biphenyls (PCBs), the concentration of any PCBs in the soil shall not exceed 50 parts per million (Section 742.305(f)).*

  PCBs are a COC for the Remediation Site and were not detected in any of the soil samples analyzed. Therefore, this requirement is satisfied.

Based on the above evaluation, exclusion of exposure pathways will be allowed at the Remediation Site. As described below, additional criteria must also be satisfied before the specific exposure pathways can be formally excluded from consideration.

2.2.2 Soil Ingestion and Outdoor Inhalation Exposure Routes

As outlined in Table 2-3 (refer to Section 2.2), COCs exceeding the applicable SROs include certain PNAs above the soil ingestion exposure route for residential property in 17 soil samples, lead above the construction worker and residential soil ingestion exposure routes in three samples, and mercury above the construction worker inhalation exposure route in 28 soil samples. Pursuant to 35 IAC 742.310 and 742.315, these exposure routes may be excluded from consideration if the following criteria are satisfied:

- *The requirements of Sections 742.300 and 742.305 are met (Sections 742.310(a) and 742.315 (a));*

Justification that the requirements of Sections 742.300 and 742.305 have been met was provided in preceding sections of this report. Therefore, this requirement is satisfied.

- *An approved engineered barrier is in place that meets the requirements of Subpart K (Sections 742.310(b) and 742.315(b));*

Pursuant to 35 IAC 742.315(b), engineered barriers will be utilized throughout the entire site to eliminate the identified exceedances of the soil ingestion exposure route and to meet the requirements of Part 742, Subpart K (Figure 8). The specific types of engineered barriers proposed for the Remediation Site include standard (default) concrete and asphalt barriers associated with building pads, walkways, and parking lots and will be installed as part of the overall redevelopment of the site. For unpaved, greenspace areas, Pioneer proposes a barrier of 18-inches of certified clean soil that will be installed above a geotextile. Upon completion, Pioneer will provide

documentation in a forthcoming Remedial Action Completion Report to verify that all appropriate engineered barriers were installed and meet all requirements of Part 742, Subpart K. The specific types of engineered barriers proposed for the Remediation Site are further described in Section 3.3 of this report.

- *Safety precautions for the construction worker are taken if the Tier 1 construction worker remediation objectives are exceeded; and (Sections 742.310(c) and 742.315(c));*

Mercury was detected at concentrations exceeding the Tier 1 SRO for the construction worker outdoor inhalation exposure route at multiple locations and lead was detected above the Tier 1 SRO for the construction worker ingestion exposure route at three locations. To satisfy the requirements of 35 IAC 742.310(c) and 742.315(c), construction workers will be notified of the site's contaminant conditions through the development of a construction worker safety plan. Pursuant to 35 IAC 742.310(c) and 742.315(c), if the Tier 1 SROs for construction worker outdoor inhalation or soil ingestion exposure routes have been exceeded, an institutional control to provide the appropriate safety precaution for future construction worker exposure will be required. Since soil sampling activities have identified concentrations of Targeted COCs at concentrations exceeding the Tier 1 SROs for the ingestion and outdoor inhalation exposure routes for construction workers, an Environmental Site Safety Plan will be developed and will be provided to all persons involved in construction in the areas impacted above the remediation objectives for the construction worker population. The Environmental Site Safety Plan will describe potential risks and recommended practices. Based on the analytical results, the entire site will require an Environmental Site Safety Plan.

- *An institutional control, in accordance with Subpart J, will be placed on the property (Sections 742.310(d) and 742.315(d));*

Pursuant to Sections 742.310(d) and 742.315(d), an institutional control in accordance with Part 742, Subpart J is required to exclude the pathways and ensure that construction workers are notified of areas where concentrations of COCs are above the applicable SROs, and that the engineered barrier is properly maintained. The NFR letter will be used as an institutional control to satisfy this requirement.

2.3 Summary

The cumulative results of Pioneer's soil and groundwater investigations have identified various COCs that exceed the applicable Tier 1 SROs for residential property use, the construction worker ingestion and outdoor inhalation exposure routes, and the default soil saturation and soil attenuation capacity values. These COCs include certain PNAs, metals, and TRPH. The groundwater investigation revealed that no COCs were present at concentrations exceeding the Tier 1 GROs for Class II groundwater or the indoor inhalation exposure route. Based on the extensive investigations completed at the Remediation Site, which included the advancement of 45 soil borings, the installation of seven groundwater monitoring wells, and the analysis of 55 soil and groundwater samples, Pioneer believes that the nature and extent of impacts have been adequately characterized.

3.0 REMEDIAL ACTION PLAN

3.1 Introduction

As noted in the preceding sections of this combined CSIR/ROR/RAP, site investigation activities performed at the Remediation Site identified various PNAs, metals, and TRPH at concentrations above the applicable remediation objectives. As discussed in Section 1.5.1 of this report, the affected exposure routes for the Remediation Site only include the soil ingestion and outdoor inhalation pathways for residential properties and construction worker populations.

To address the pathway-specific exceedances, Pioneer utilized the development of site-specific values for soil attenuation and soil saturation and the exclusion of applicable exposure routes to demonstrate that the detected COCs can be adequately managed in place pursuant to the risk-based procedures of 35 IAC 742. Pioneer believes that the information presented in Section 2.0 of this CSIR/ROR/RAP is sufficient to demonstrate that the site has been adequately characterized, the extent of impacts has been adequately delineated, and following the planned UST removal activities and limited hot spot remediation, residual impacts may remain in place through the exclusion of exposure routes and use of institutional controls. Table 3-1 outlines the COCs identified at concentrations exceeding the applicable exposure routes.

Table 3-1 Table 3-1 COCs Exceeding Applicable Exposure Routes

Applicable Exposure Route	Targeted COC
Residential Soil Ingestion	Select PNAs, lead
Residential Outdoor Inhalation	--
Construction Worker Soil Ingestion	lead
Construction Worker Outdoor Inhalation	mercury
Soil Component of Class II Groundwater Ingestion	--
Class II Groundwater Ingestion	--
Residential Indoor Inhalation	--

Notes: PNAs = polynuclear aromatic hydrocarbons
-- indicates no COCs detected at concentrations exceeding the exposure route

As mentioned, Pioneer proposes to remove the two known USTs identified on site. Additionally, although the levels of TRPH and mercury exceeding the default soil attenuation capacity and default soil saturation limit, respectively, can be addressed by calculation of site-specific values, limited hot spot remediation may also be performed to remove impacted soils from the areas around B-5, B-10, and B-122. Due to practical redevelopment considerations, these areas of relatively higher impact may be removed by conventional remediation efforts. This Remedial Action Plan (RAP) has been prepared to describe the proposed remedy and evaluate its ability and effectiveness to achieve the applicable remediation objectives. This section of this combined report constitutes the RAP.

3.2 Remedial Technology Selection

Active remediation may be performed at three specific locations on the Remediation Site in the areas of B-5, B-10, and B-122. In addition, the two known USTs will be removed in accordance with applicable regulations. Pursuant to 35 IAC 740.450(c), Pioneer developed an approach to closure in accordance with the regulations of 35 IAC Part 742 (TACO) for the remaining identified impacts. Based on the cumulative analytical results, and as discussed in Sections 2.2 and 2.3 of this combined CSIR/ROR/RAP, the remaining targeted COCs identified at the site can be eliminated from further consideration through the exclusion of exposure routes. Pioneer's proposed approach to site closure will include the following:

- The proper removal of the two confirmed on-site USTs, and the potential removal and off-site disposal of soils surrounding the tanks depending on field observations and/or excavation sample results.
- The proper removal and off-site disposal of TRPH-impacted soils at boring locations B-5 and B-10, and mercury-impacted soils at boring location B-122.
- Construction workers will be notified and protective measures will be taken in relation to potential exposure to contaminants identified at the Remediation Site.
- Installation and maintenance of appropriate engineered barriers covering the entire Remediation Site to eliminate the soil ingestion exposure route for residential properties.
- Establishment of the entire Remediation Site as a Soil Management Zone (SMZ) to allow the consolidation and redistribution of impacted soils during redevelopment.

3.2.1 UST Removal Activities

As previously mentioned, the GPR survey and test pit excavations confirmed the presence of two on-site ("pre-74") heating oil USTs located at the property. One estimated 1,500-gallon heating oil UST is located near the existing firehouse structure located on Development Site B and one estimated 2,000-gallon heating oil tank is located on the northwest portion of the Retail Development parcel. The UST removal activities will be performed by a licensed UST removal contractor certified to conduct UST decommissioning work in the State of Illinois. In addition, all on-site personnel will be 40-hour OSHA-trained in Hazardous Waste Operations and Emergency Response.

Prior to job start-up, a UST removal permit application will be completed and forwarded to the City of Chicago (Chicago Department of Public Health [CDPH]) for approval. Upon receipt of the approved permit, the CDPH will be contacted to schedule the fieldwork.

The USTs will be pumped, and their contents removed for proper disposal by a licensed waste hauler. The lower explosive level (LEL) within the USTs will be measured using a combustible gas monitor, and upon confirmation that the LEL is below 5%, and after receiving approval from the City of Chicago field

inspector, the backfill material surrounding the tanks will be excavated and the tanks removed. The tanks will then be placed above-ground and secured to prevent rolling.

An opening will be cut into the USTs using non-sparking, pneumatic equipment. The interior of the USTs will be further cleaned using a "scrape and shovel" cleaning procedure and the residual liquids/sludges will be pumped from the USTs by the licensed waste hauler. Once the tanks are cut, cleaned and rendered unfit for further use, they will be transported to a scrap yard for final decommissioning, dismantling and scrapping.

The City of Chicago field inspector will then visually inspect the exterior of the tanks and the excavation for signs of a release. If it is determined that a release has occurred from any of the tank systems, a leaking UST (LUST) incident will be reported. As a regulatory note, if a LUST incident is required, Pioneer proposes to satisfy the applicable regulations by "electing to proceed" and pursuing closure through the Site Remediation Program in connection with the Comprehensive NFR letter being pursued for the Remediation Site.

In accordance with 41 IAC 176.330 and 35 IAC 734.210(h)(1), soil samples will be collected from the UST excavations for analysis of BTEX and PNAs, the proper indicator contaminants for heating oil tanks. Depending on field conditions, samples may also be analyzed for TRPH. As discussed below, conventional soil remediation (i.e. excavation and off-site disposal) may also be performed to remove the most heavily-impacted soils from around the tanks, as needed, to achieve the applicable SROs and/or for practical reasons.

3.2.2 Limited Hot Spot Remediation Activities

During the UST removals, field observations and analytical results will be used to determine the need and extent for the removal of any heavily-impacted soils from around the tanks. Based on the existing data from soil boring B-5, some degree of hot spot remediation is likely from the location of the estimated 2,000-gallon tank located on the Retail Development parcel. In addition, the existing data from soil boring B-10 and associated field observations noted from this area indicate that some degree of hot spot remediation will also be conducted at this location.

The concentration of mercury in soil sample B-122 (0-3), located in the southeastern portion of the Retail Development parcel (Outlot A), is 3.34 mg/kg, which exceeds the default soil saturation limit for elemental mercury. As a practical matter given the proposed site redevelopment work, limited hot spot remediation will be performed at soil boring B-122 to a depth of approximately 5 feet (Figure 10).

The extent of the limited hot spot remediation activities will be based on the results of samples collected from nearby borings and the results of excavation confirmation samples collected after soil removal.

Any contaminated material excavated from the site will be loaded into licensed waste haulers and subsequently disposed of off-site at a licensed Subtitle D landfill under the proper waste manifesting/ tracking procedures. A representative sample of the impacted material has been analyzed for the

appropriate waste characterization parameters and the results will be submitted to a permitted landfill for disposal authorization.

In order to verify that a sufficient amount of contaminated soil has been removed, Pioneer will collect the proper number of grab samples of soil from the sidewalls and base of the excavations for analysis of the appropriate COCs. The procedures employed during the collection of the soil samples will comply with typical IEPA protocol for conventional remediation projects and follow standard industry operating practices. All analytical tests will be performed in accordance with accepted USEPA Test Methods. Following completion of the limited hot spot remediation activities, the excavations will be backfilled with clean (virgin) quarry stone.

3.3 Applicable Engineered Barriers, Institutional Controls & Monitoring

3.3.1 Engineered Barriers

Engineered barriers will be required to cover the entire site to address the presence of soil ingestion exceedances at the Remediation Site. The area requiring the installation and maintenance of engineered barriers encompasses approximately 10.5 acres (Figure 8).

The proposed site improvements will be utilized as engineered barriers which will consist of two components: asphalt/concrete pavement/pads, and an 18-inch clean soil barrier over a geotextile. These two barrier components will be installed as part of the redevelopment of the site. The asphalt and concrete barriers will include permanent buildings, asphalt-paved parking areas, and concrete walkways, constructed using standard industry practices and building materials. All concrete foundations and pads will be approximately 4-6 inches thick with 8-12 inches of CA-6 gravel basecourse compacted to meet local and industry building codes. The asphalt pavement will be approximately 3-4 inches thick with 6-8 inches of compacted CA-6 gravel basecourse.

As allowed by Section 742.1105(d), the second component of the engineered barrier will consist of an 18-inch clean soil cap and geotextile that will be installed in all unpaved greenspaces. The geotextile will serve both as a physical obstruction and as an identification marker for impacted soils that will remain below that layer. Although the proposed clean soil barrier does not equal the default thickness of 3 feet, it is believed to be equally protective for the following main reasons: (1) the property will mainly be used for commercial purposes in an urban setting where it is reasonable to expect that only limited and short-term exposure to greenspace areas will occur; (2) the greenspace areas will be relatively limited to landscaped islands within and around parking lots and buildings; and (3) the greenspaces will be professionally managed and maintained ensuring that the appropriate steps will be taken regarding any breaches and restoration of the barrier if disturbed. Pioneer believes this proposed clean soil cap will be sufficient to eliminate the soil ingestion exposure route in unpaved greenspaces at the Remediation Site.

In connection with the use of any "clean" soil as engineered barriers in greenspaces, Pioneer proposes the following methodology to demonstrate that imported soils meet applicable Illinois EPA requirements.

- The source location for the imported clean soil will be investigated to determine potential historical land use (by reviewing aerial photographs, topographic maps, Sanborn maps) and whether the source property is listed on any State or Federal environmental databases.
- Any available documentation will be obtained from the landscaping contractor and/or other entity responsible for providing the clean soil that the material is acceptable for commercial use.
- Samples from each source location will be analyzed for Target Compound List (TCL) parameters to confirm that the imported soil meets the most stringent Tier 1 SROs at a rate of one TCL sample per 1,000 cubic yards of imported soil.

Through the installation of asphalt, concrete, and the 18-inch clean soil cap, the soil ingestion exposure route will be effectively eliminated at the Remediation Site. Following construction, if any future construction activities will disturb the barriers, the barriers must be replaced with equivalent materials. If any future construction activities will result in the installation of alternate barriers, the alternate barriers must be approved by the IEPA.

3.3.2 Institutional Controls

The following institutional controls are proposed for the Remediation Site:

1) In accordance with 35 IAC 742.310 (d), 742.315(d), 742.605(b) and 742.1005, the comprehensive NFR letter to be issued for the Remediation Site will be recorded as a permanent part of the chain of title for this site and shall serve as the appropriate institutional control regarding construction worker notification and maintenance of the engineered barriers.

2) Any future on-site structures shall be constructed with full concrete slab-on-grade foundations or contain basements with full concrete floors and walls with no sumps.

3.3.3 Post-Remedial Monitoring

No post-remedial monitoring is required for the Remediation Site.

3.4 Other Conditions

Groundwater at the site shall be classified as Class II, general use groundwater.

Soil or groundwater removed from a known impacted area must be managed in accordance with applicable regulations. This typically requires the material to be returned to its original location or to be managed in accordance with applicable solid waste regulations.

3.5 Soil Management Zones

The site grading plan is being developed with the intention of minimizing the overall environmental impact of transporting and disposing of materials generated during site redevelopment. Specifically, to the extent practicable and following any hot spot remediation activities (refer to Section 3.2.2), construction spoils generated during redevelopment will be consolidated and redistributed on site and subsequently encapsulated beneath an approved engineered barrier, or will be removed and properly disposed of at a permitted Subtitle D landfill. Of significant importance to this approach is the establishment of a soil management zone (SMZ) that encompasses the entire Remediation Site.

Pursuant to Section 740.535, SMZs may be established in order to allow for the placement of contaminated soils for structural fill and/or the consolidation of contaminated soils within a Remediation Site without violating the solid waste disposal regulations of 35 IAC Part 807 and Parts 811 through 815. As described above, a SMZ is proposed for this site in order to minimize the quantity of soil to be disposed of off-site and to facilitate the planned redevelopment of the site in an environmentally-sustainable and responsible manner. In general, the SMZ is proposed for the Remediation Site in order to allow for the on-site re-use of the impacted materials that will be excavated during redevelopment for building foundations, installation of subsurface utilities, and general site grading.

The SMZ will encompass the entire Remediation Site and the entire Remediation Site will ultimately be covered with engineered barriers consisting of asphalt, concrete and/or 18 inches of clean soil.

In order to formally establish SMZs at a site, certain criteria must be satisfied, as described below.

- *All contaminants of concern within the remediation site shall be identified by a comprehensive site investigation under Section 740.420 [740.535(b)(1)];*

  A comprehensive site investigation has been completed at the site which has adequately characterized each of the RECs identified at the site. Therefore, this requirement is satisfied.

- *The horizontal and vertical dimensions of the soil management zone shall be defined [740.535(b)(2)];*

  Based on the site investigation data, the SMZ will include the entire 10.5 acres of the Remediation Site to a depth of 8 feet. Therefore, this requirement is satisfied.

- *The uses of the soil management zone shall be defined [740.535(b)(3)];*

  As allowed under 740.535(a)(2)(A), the SMZ will be established in order to consolidate and redistribute contaminated construction spoils where possible and to the extent practicable to limit the amount of spoils that would otherwise have to be disposed of at a permitted landfill facility. Therefore, this requirement is satisfied.

- *All contaminants of concern within the soil management zone shall satisfy the requirements of 35 IAC 742.305(a) through (f) [740.535(b)(4)];*

As previously described in this report, all COCs have been characterized, and it has been previously demonstrated that the requirements of 742.305(a) through (f) will be satisfied.

- *All applicable requirements of 35 IAC 742 shall be satisfied within the soil management zone (e.g., all exposure routes must be addressed; institutional controls and engineered barriers shall be in full compliance with 35 IAC 742, Subparts J and K) [740.535(b)(5)];*

  Based on the cumulative analytical testing results, certain PNAs, metals, and TRPH were identified above the Tier 1 SROs for the residential soil ingestion and construction worker ingestion and outdoor inhalation exposure routes. As discussed in this report, following hot spot remediation and engineered barrier installation, the soil ingestion exposure route will be effectively eliminated, and the construction worker ingestion and inhalation exposure pathways will be eliminated through a construction worker health and safety plan. The final recorded NFR letter will serve as the appropriate institutional control for the site. Therefore, this requirement will be satisfied.

- *The soil management zone shall be constructed, operated and maintained in a manner that prevents odors from occurring [740.535(b)(6)(A)];*

  Standard construction and engineering practices will be utilized to prevent odors from emanating from the SMZ. Since the soils that are planned to be excavated and placed into the SMZ have been primarily impacted by relatively low levels of certain PNAs and metals, the soils are not expected to create noticeable odors during the construction of the SMZ, and no specialized equipment or techniques are expected to be necessary. Thus, this requirement will be satisfied.

- *The soil management zone shall be constructed, operated and maintained in a manner that minimizes fugitive emissions of particulate matter in accordance with 35 IAC 212, Subpart K and dust generation [740.535(b)(6)(B)];*

  In accordance with 35 IAC 212, fugitive particle emissions and dust generation will be controlled at the site during the construction of the SMZ through the surficial application of water on an as-needed basis, and the SMZ will be capped with asphalt, concrete or 18-inches of clean soil. As a result, this requirement will be satisfied.

- *The soil management zone shall be constructed, operated and maintained in a manner that prevents the generation of potentially contaminated runoff [740.535(b)(6)(C)];*

  Standard construction and engineering practices (i.e. erosion control practices and silt fences) will be utilized to prevent potentially contaminated runoff during the redevelopment activities. After development, engineered barriers will cover all portions of the Remediation Site. As a result, this requirement will be satisfied.

- *The soil management zone shall be constructed, operated and maintained in a manner that does not provide a breeding place or food source for vectors [740.535(b)(6)(D)];*

  As mentioned, once the contaminated soils have been placed into the SMZ, the Remediation Site will be covered by engineered barriers. There is no reason to believe that the construction of these site

improvements or the maintenance of the SMZ would provide a breeding place or food source for vectors. As a result, this requirement will be satisfied.

- *Within the soil management zone, management of soil containing hazardous wastes shall comply with the applicable requirements of the Resource Conservation and Recovery Act (42 USCA 6901-6992k) and 35 IAC 700 through 730 [740.535(b)(7)];*

  Based on the cumulative analytical results, no hazardous wastes are present at the Remediation Site. As a result, this requirement will be satisfied.

- *Soil containing contaminants of concern above the concentrations in 35 IAC 742, Appendix B, Table A (Tier 1 objectives for residential properties) or approved by the Agency pursuant to 35 IAC 742.510(c) may not be treated or placed in any area where all contaminants of concern within the remediation site are at or below the concentrations in 35 IAC 742, Appendix B, Table A (Tier 1 objectives for residential properties) or approved by the Agency pursuant to 35 IAC 742.510(c) [740.535(b)(8)];*

  Cumulative analytical results were evaluated in determining the proposed boundaries of the SMZ. Since various COCs were identified above the current most stringent Tier 1 SROs at locations and intervals throughout the site, the entire Remediation Site will be considered a SMZ. As a result, this requirement will be satisfied.

- *The three-dimensional boundaries of the soil management zone shall be as defined in the approved Remedial Action Plan…the soil management zone may not extend beyond the boundaries of the remediation site [740.535(c)];*

  The vertical and horizontal dimensions of the SMZ are described above. The SMZ is located entirely within the boundaries of the Remediation Site and will extend to a depth of 8 feet BSG. As a result, this requirement will be satisfied.

3.6 Conclusions

Pioneer believes that the cumulative analytical results demonstrate that the extent of contamination has been adequately characterized, and that after the planned UST removals and limited hot spot remediation activities are complete, the use of engineered barriers and institutional controls will be sufficient to minimize exposure to residual contamination. Following installation of the engineered barriers which will be completed in connection with site redevelopment, Pioneer believes this site will warrant the issuance of a comprehensive NFR letter pursuant to 35 IAC Section 740.605 and 415 ILCS 5/58.10 of the Illinois Environmental Protection Act. The NFR letter shall be recorded as a permanent part of the chain of title for the Remediation Site and serve as an appropriate institutional control.

Based on our assessment, Pioneer believes that the NFR letter should include the following conditions.

- The land use of the Remediation Site will not be restricted.
- The soil ingestion exposure route will be eliminated for the entire Remediation Site using the engineered barriers proposed herein and which will be installed in connection with the planned redevelopment of the site.
- Groundwater at the site shall be classified as Class II, general use groundwater.
- Any future buildings constructed on the site must contain a full concrete slab-on-grade floor or full concrete basement floor and walls with no sumps.

Upon approval of this CSIR/ROR/RAP, Pioneer respectfully requests the issuance of a Draft NFR letter for the Remediation Site that documents the conditions upon which the final NFR letter will rely.

As a note, the redevelopment of the Remediation Site will proceed in various stages, consequently, multiple final NFR letters will be requested from the Agency as the redevelopment of this site is completed. The first stage will consist of general earthwork and site preparation work throughout the entire Remediation Site, as needed, to prepare the site for the known planned redevelopment work. The known planned redevelopment work includes the installation of the stormwater detention vaults along West 63rd Parkway, and the retail/commercial redevelopment of the Retail Development parcel (excluding Outlots A and B). Therefore, after all engineered barriers are installed at these locations, all required documentation and Remedial Action Completion Reports (RACRs) will be submitted to request final NFR letters for those specific parcels. As the redevelopment activities progress and are completed for the remaining areas that comprise the Remediation Site, additional RACRs will be prepared and submitted to the Agency to request final NFR letters at that time. Please refer to Figure 9 for an illustration of the expected staged approach for obtaining final NFR letters at the Remediation Site.

4.0 CLOSING REMARKS

This report has been prepared for the use of the Client and Remediation Applicant identified in the report, and for evaluation by the Illinois EPA, and can not be relied upon by other persons or entities without the permission of Pioneer Environmental Services, LLC (Pioneer). The observations and conclusions contained herein are limited by the scope and intent of the work mutually agreed upon by the Client and Pioneer and the work actually performed. There are no warranties, implied or expressed, concerning the environmental integrity of areas and/or mediums not analytically tested.

5.0 REFERENCES

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Figure 1 Soil Boring and Monitoring Well Locations - Current Development

Figure 2 Soil Boring & Monitoring Well Locations - Proposed Development

Figure 3 Site Diagram with GPR Findings - Current Development

Figure 4 Site Diagram with GPR Findings - Aerial Photograph

Figure 5 Locations Where COCs Exceed Tier 1 SROs - Residential Ingestion

Figure 6 Locations Where COCs Exceed Tier 1 SROs - Construction Worker Ingestion & Inhalation

Figure 7 Hydraulic Gradient Diagram

Figure 8 Proposed Engineered Barriers

Figure 9 NFR Letter Areas

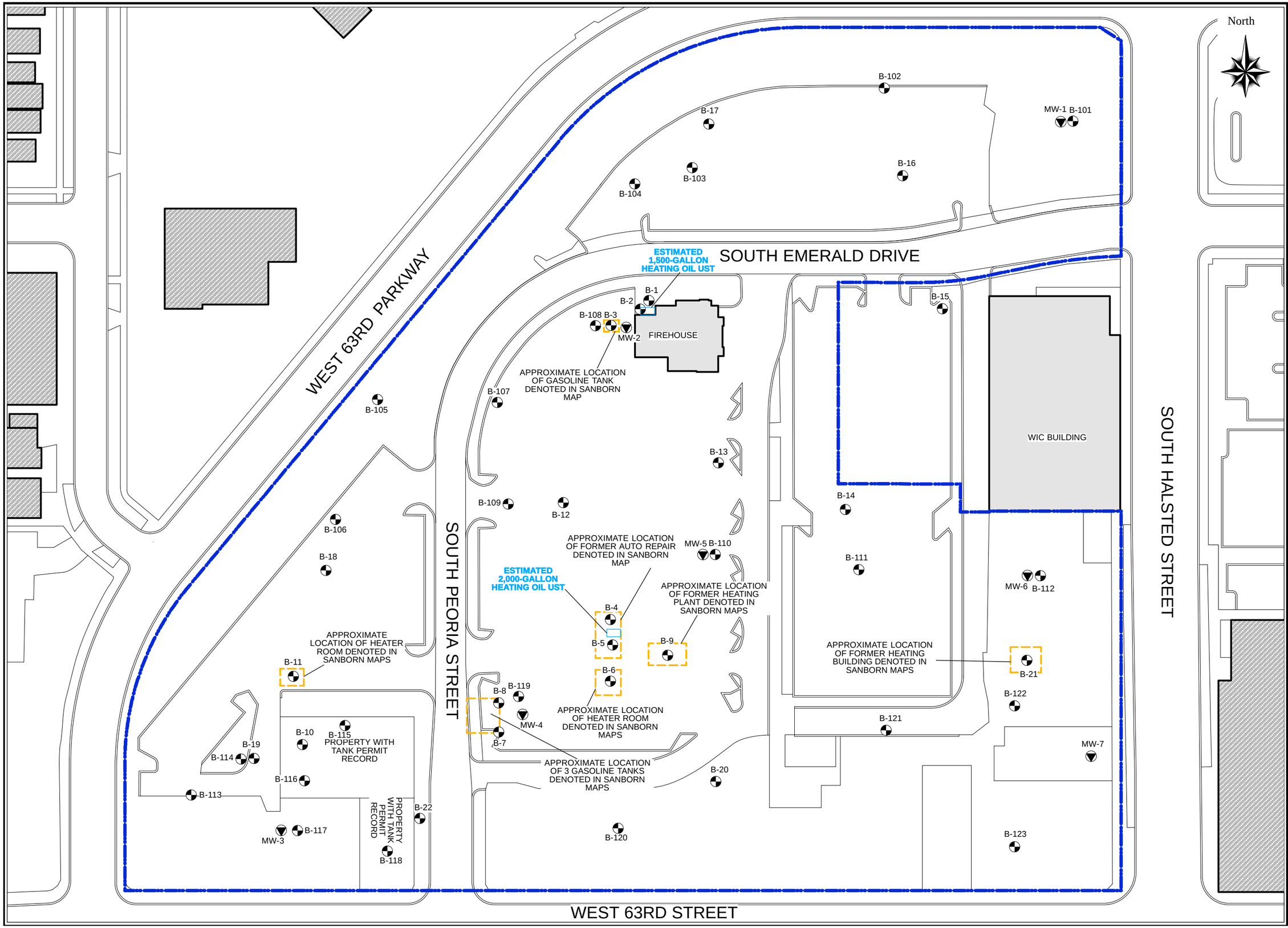

FIGURE 1
Soil Boring & Monitoring Well Location Diagram
Current Development
Halsted Parkways
NWC West 63rd Street & South Halsted Street
Chicago, IL

Scale: 1" = 80'
0' 80'

Drawn by: Jackson Toomey

Job No: 12-0646-102

Date: April 2014

Checked by: Natalie Struble

Legend:

Remediation Site Boundary

Environmental Soil Boring Location

Environmental Monitoring Well Location

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North

WEST 63RD PARKWAY

SOUTH PEORIA DRIVE

SOUTH GREEN STREET

SOUTH HALSTED STREET

WEST 63RD STREET

DEVELOPMENT SITE D

DEVELOPMENT SITE B

DEVELOPMENT SITE A

OUTLOT B

OUTLOT A

N.I.C.

GROCERY STORE

RETAIL

FIREHOUSE (EXISTING)

WIC BUILDING (EXISTING)

PROPOSED BUILDING

ESTIMATED 1,500-GALLON HEATING OIL UST

ESTIMATED 2,000-GALLON HEATING OIL UST

APPROXIMATE LOCATION OF GASOLINE TANK DENOTED IN SANBORN MAP

APPROXIMATE LOCATION OF FORMER AUTO REPAIR DENOTED IN SANBORN MAP

APPROXIMATE LOCATION OF FORMER HEATING PLANT DENOTED IN SANBORN MAPS

APPROXIMATE LOCATION OF HEATER ROOM DENOTED IN SANBORN MAPS

APPROXIMATE LOCATION OF 3 GASOLINE TANKS DENOTED IN SANBORN MAPS

APPROXIMATE LOCATION OF FORMER HEATING BUILDING DENOTED IN SANBORN MAPS

B-1, B-2, B-3, B-4, B-5, B-6, B-7, B-8, B-9, B-10, B-11, B-12, B-13, B-14, B-15, B-16, B-17, B-18, B-19, B-20, B-21, B-22, B-101, B-102, B-103, B-104, B-105, B-106, B-107, B-108, B-109, B-110, B-111, B-112, B-113, B-114, B-115, B-116, B-117, B-118, B-119, B-120, B-121, B-122, B-123

MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7

FIGURE 2
Soil Boring & Monitoring Well Location Diagram
Proposed Site Developments
Halsted Parkways
NWC West 63rd Street & South Halsted Street
Chicago, IL

Scale: 1" = 80'
0' 80'

Drawn by: Jackson Toomey

Job No: 12-0646-102

Date: April 2014

Checked by: Natalie Struble

Legend:

- Remediation Site Boundary
- Proposed Stormwater Detention Chamber
- Environmental Soil Boring Location
- Environmental Monitoring Well Location

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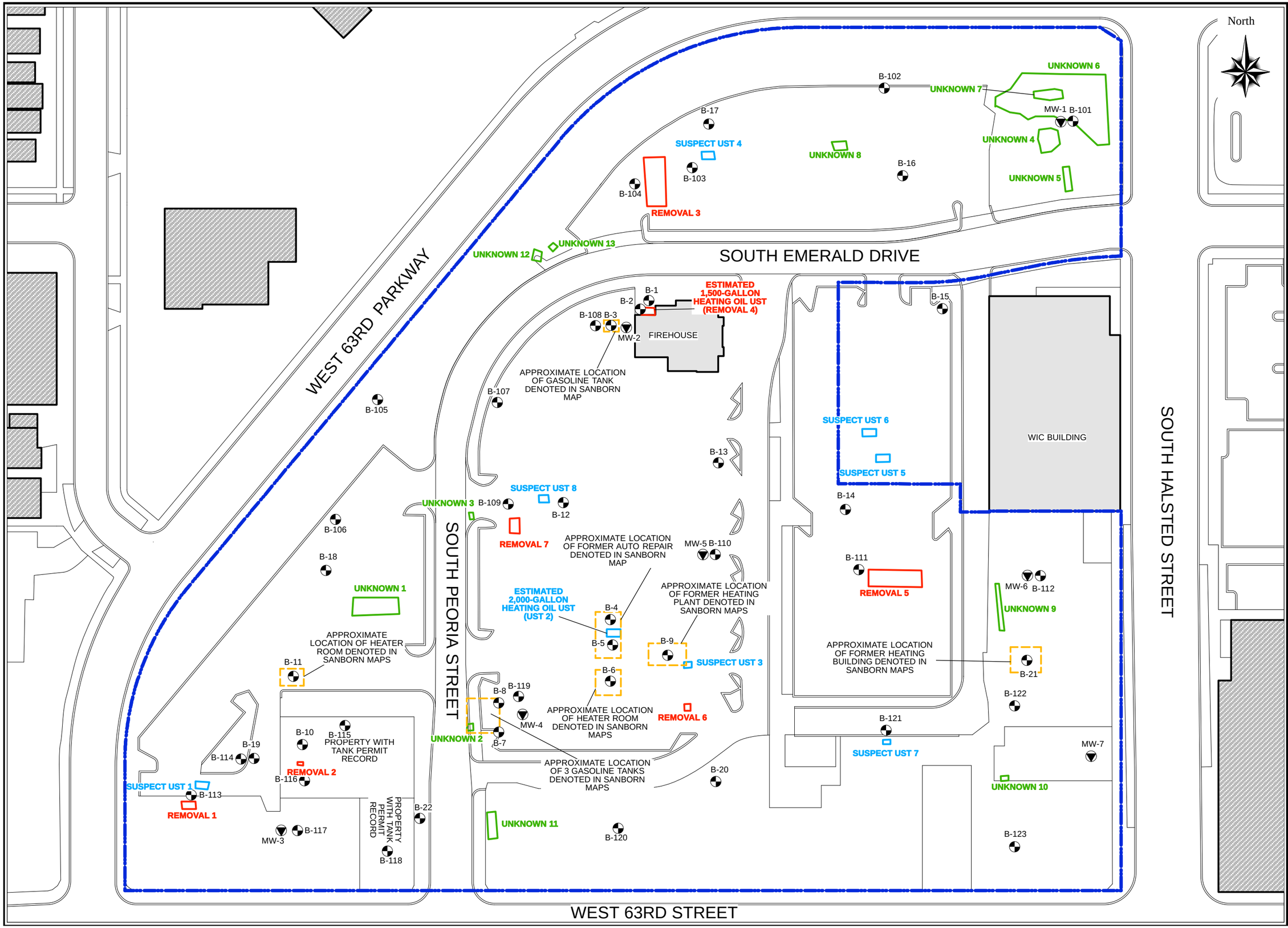

FIGURE 3
Site Diagram With GPR Findings
Current Development
Halsted Parkways
NWC West 63rd Street & South Halsted Street
Chicago, IL

Scale: 1" = 80'
0' 80'

Drawn by: Jackson Toomey

Job No: 12-0646-102

Date: April 2014

Checked by: Natalie Struble

Legend:

- Remediation Site Boundary
- Environmental Soil Boring Location
- Environmental Monitoring Well Location
- Suspect UST Location
- Suspect Removal/Excavation Location
- Unknown Anomaly

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FIGURE 4
Site Diagram With GPR Findings
Aerial Photograph
Halsted Parkways
NWC West 63rd Street & South Halsted Street
Chicago, IL

Scale: 1" = 80'
0' 80'

Drawn by: Jackson Toomey

Job No: 12-0646-102

Date: April 2014

Checked by: Natalie Struble

Legend:

- Remediation Site Boundary
- Environmental Soil Boring Location
- Environmental Monitoring Well Location
- Suspect UST Location
- Suspect Removal/Excavation Location
- Unknown Anomaly

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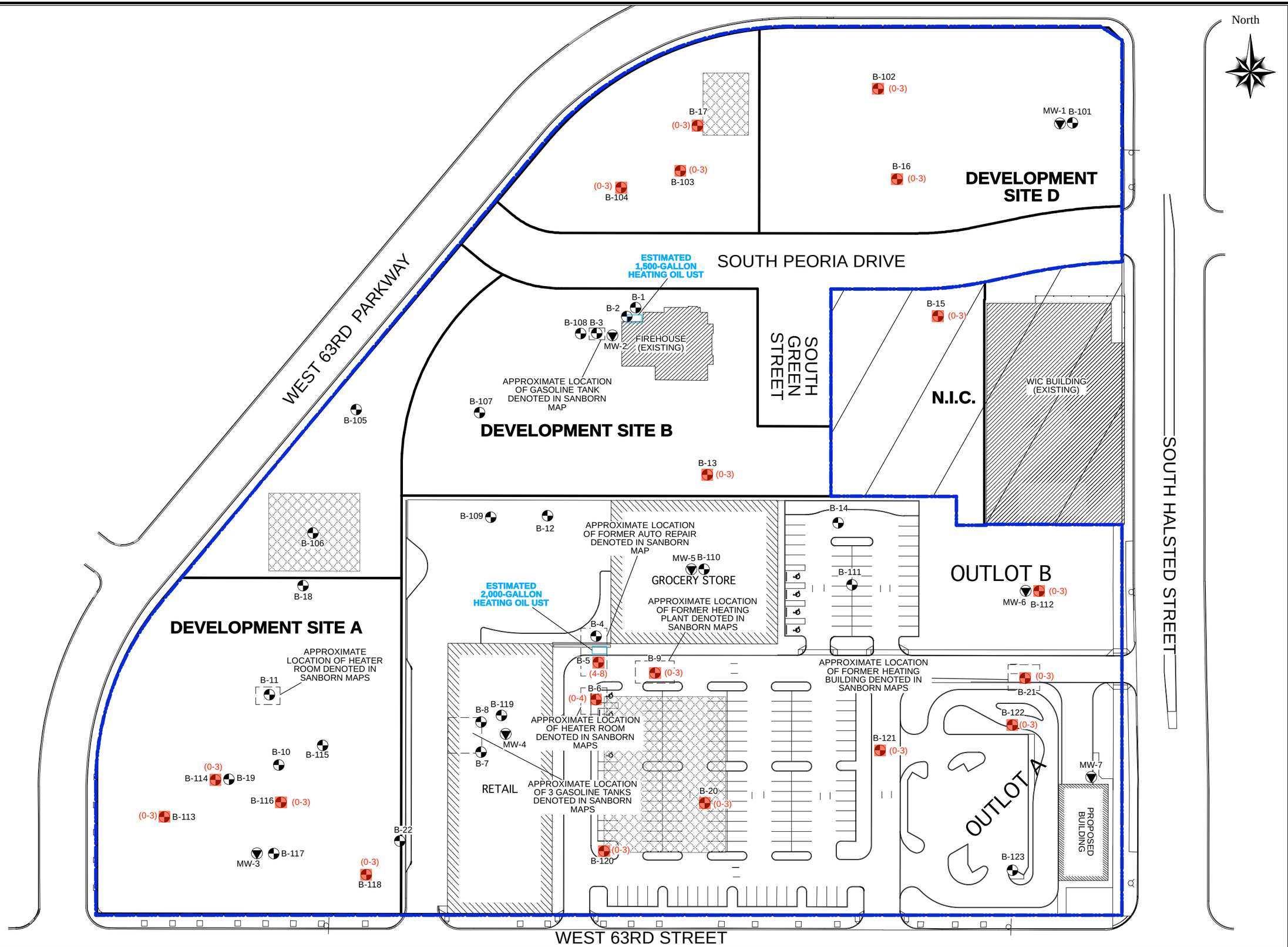

FIGURE 5
Locations Where COCs Exceed Tier 1 SROs
Residential Ingestion
Halsted Parkways
NWC West 63rd Street & South Halsted Street
Chicago, IL

Scale: 1" = 80'
0' 80'

Drawn by: Jackson Toomey

Job No: 12-0646-102

Date: April 2014

Checked by: Natalie Struble

Legend:

- Remediation Site Boundary
- Proposed Stormwater Detention Chamber
- Environmental Soil Boring Location
- Environmental Monitoring Well Location
- COCs > Tier 1 SROs For Residential Ingestion
- (0-3) Sample Interval

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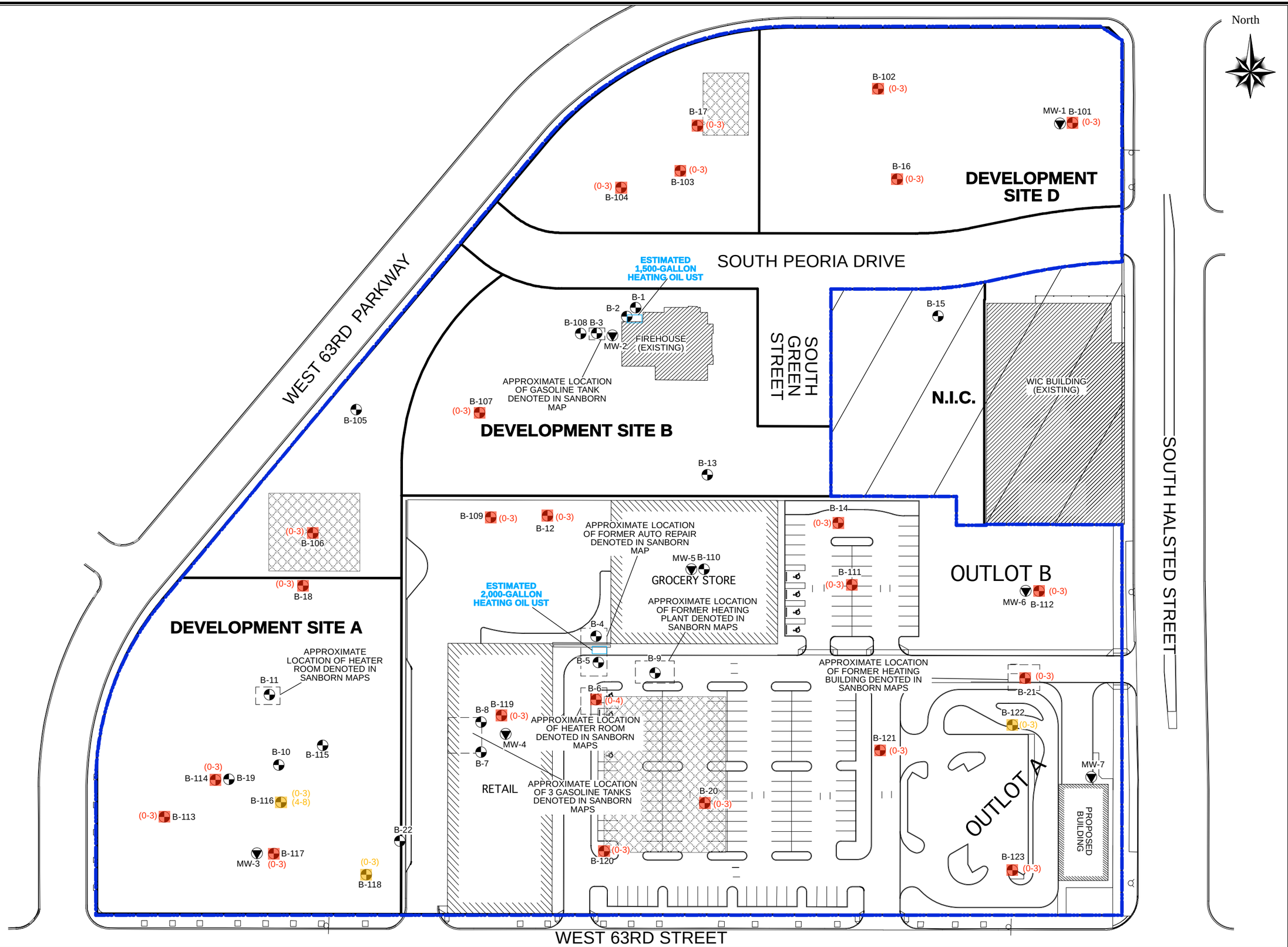

FIGURE 6
Locations Where COCs Exceed Tier 1 SROs Construction Worker Ingestion & Inhalation Halsted Parkways
NWC West 63rd Street & South Halsted Street
Chicago, IL

Scale: 1" = 80'
0' 80'

Drawn by: Jackson Toomey

Job No: 12-0646-102

Date: April 2014

Checked by: Natalie Struble

Legend:

- Remediation Site Boundary
- Proposed Stormwater Detention Chamber
- Environmental Soil Boring Location
- Environmental Monitoring Well Location
- COCs > Tier 1 SROs For Construction Worker Inhalation
- COCs > Tier 1 SROs For Construction Worker Inhalation & Ingestion
- (0-3) Sample Interval

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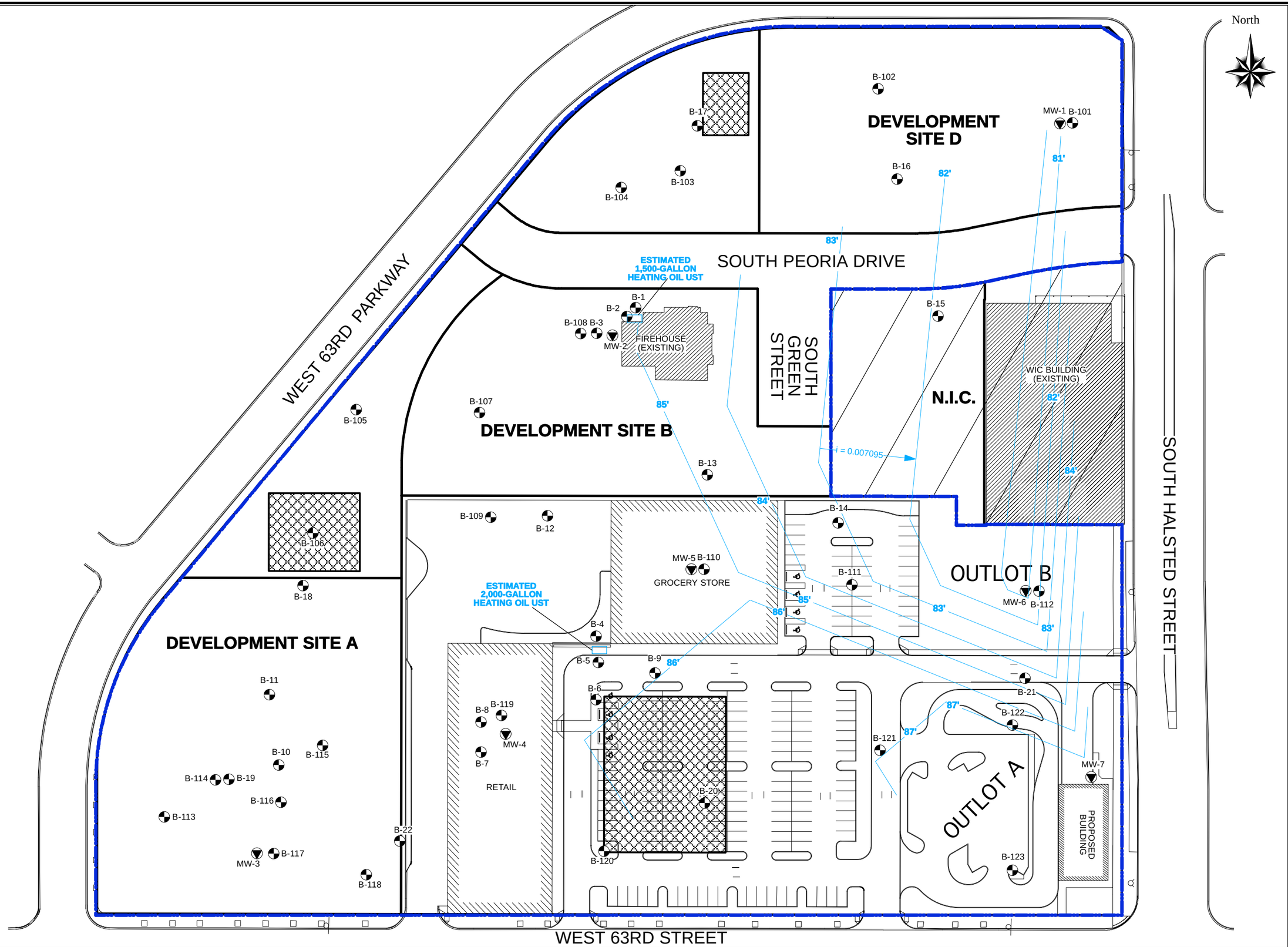

FIGURE 7
Hydraulic Gradient Diagram
Halsted Parkways
NWC West 63rd Street & South Halsted Street
Chicago, IL

Scale: 1" = 80'
0' 80'

Drawn by: Jackson Toomey

Job No: 12-0646-102

Date: April 2014

Checked by: Natalie Struble

Legend:

- Remediation Site Boundary
- Proposed Stormwater Detention Chamber
- Environmental Soil Boring Location
- Environmental Monitoring Well Location

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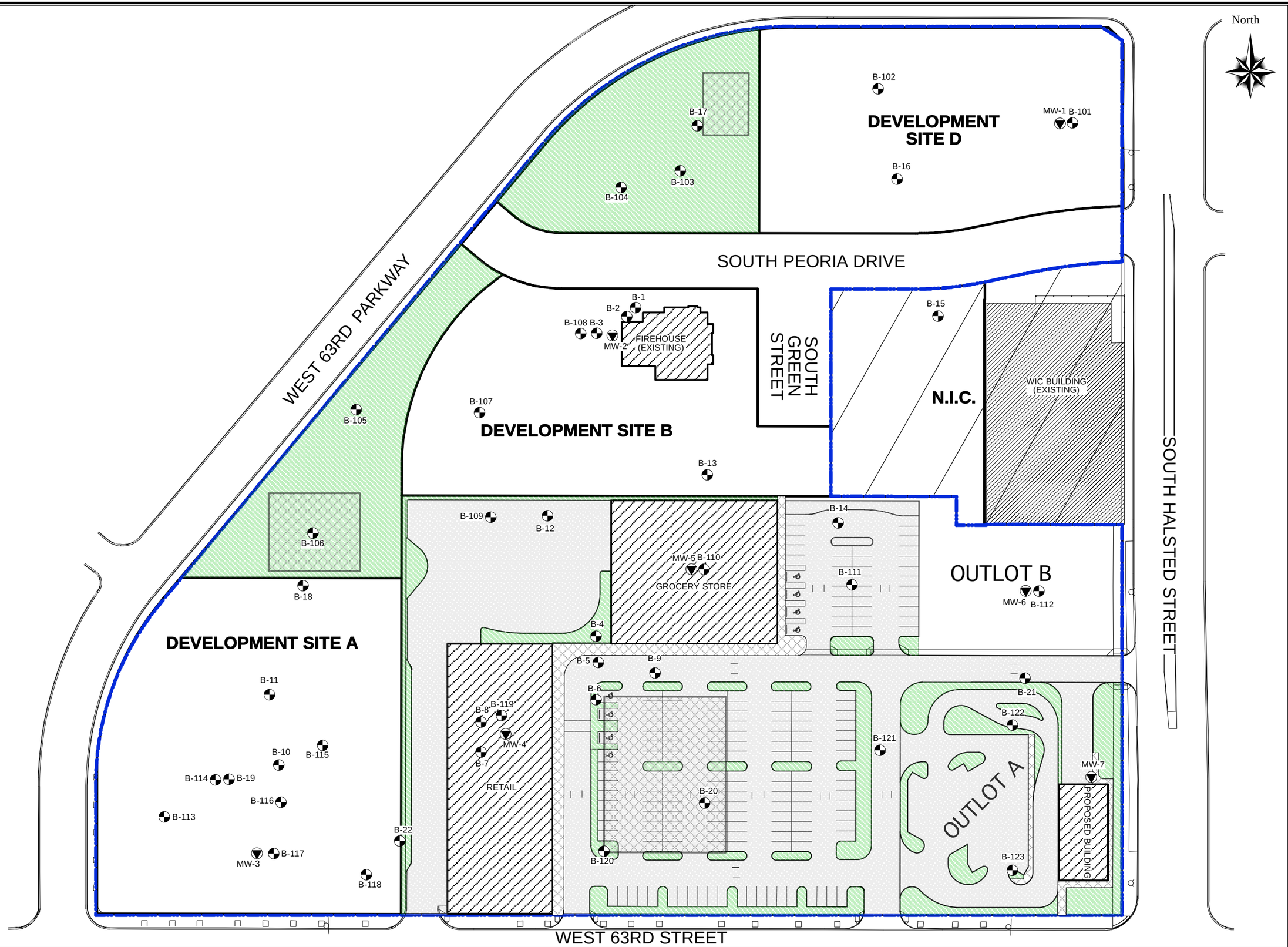

FIGURE 8
Proposed Engineered Barriers
Halsted Parkways
NWC West 63rd Street & South Halsted Street
Chicago, IL

Scale: 1" = 80'
0' 80'

Drawn by: Jackson Toomey

Job No: 12-0646-102

Date: April 2014

Checked by: Natalie Struble

Legend:

- Remediation Site Boundary
- Proposed Stormwater Detention Chamber
- Environmental Soil Boring Location
- Environmental Monitoring Well Location
- Asphalt Engineered Barrier
- 18" Soil Cover With Geo-Fabric Engineered Barrier
- Concrete Engineered Barrier (Building Foundation)
- Concrete Engineered Barrier

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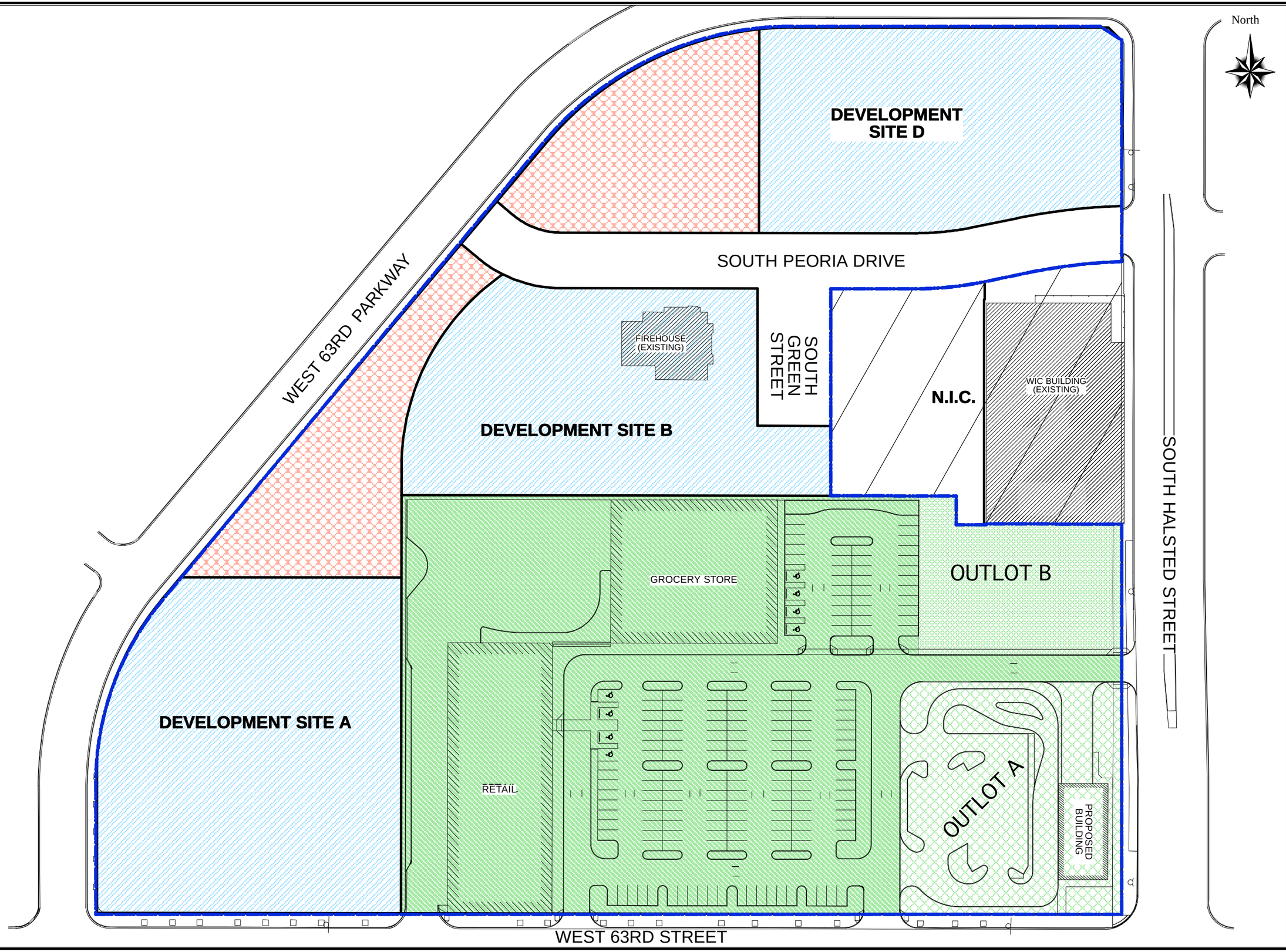

FIGURE 9
NFR Letter Areas
Halsted Parkways
NWC West 63rd Street & South Halsted Street
Chicago, IL

Scale: 1" = 80'
0' 80'

Drawn by: Jackson Toomey

Job No: 12-0646-102

Date: April 2014

Checked by: Natalie Struble

Legend:

Remediation Site Boundary

Final NFR Letter(s) To Be Obtained By CNI
Est. December 2014

Final NFR Letter(s) To Be Obtained By Ultimate Developer Of Each Development Site (Not CNI/City)
To Be Determined

Final NFR Letter(s) To Be Obtained By Retail Site Developer or Successors and Assigns (Not CNI/City)
Est. September 2015

Final NFR Letter(s) To Be Obtained By Retail Site Developer or Successors and Assigns (Not CNI/City)
To Be Determined

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Table 1 Soil Sample Analytical Results: VOCs

Table 2 Soil Sample Analytical Results: BTEX

Table 3 Soil Sample Analytical Results: SVOCs

Table 4 Soil Sample Analytical Results: PNAs

Table 5 Soil Sample Analytical Results: RCRA 8 Metals

Table 6 Soil Sample Analytical Results: TCL Metals

Table 7 Soil Sample Analytical Results: TRPH

Table 8 Soil Sample Analytical Results: Pesticides

Table 9 Soil Sample Analytical Results: PCBs

Table 10 Soil Sample Analytical Results: SPLP Sb, Pb, Se

Table 11 Soil Sample Analytical Results: TCLP Hg

Table 12 Groundwater Sample Analytical Results: VOCs

Table 13 Groundwater Sample Analytical Results: SVOCs

Table 14 Groundwater Sample Analytical Results: PNAs

Table 15 Groundwater Sample Analytical Results: RCRA 8 Metals

Table 16 Groundwater Sample Analytical Results: TCL Metals

Table 17 Groundwater Sample Analytical Results: Pesticides

Table 18 Groundwater Sample Analytical Results: PCBs

TABLE NO. 1 (1 of 3)
Soil Sample Analytical Results: VOCs
NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois

Sample ID (Interval)	B-5 (4-8)	B-6 (0-4)	B-12 (0-3)	B-13 (0-3)	B-14 (0-3)	B-15 (0-3)	B-16 (0-3)	B-17 (0-3)	B-18 (0-3)	B-19 (4-8)	B-20 (0-3)	B-21 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
													Residential		Construction Worker		Migration to Groundwater	
Collection Date	1/9/13	1/9/13	1/10/13	1/10/13	1/10/13	1/10/13	1/10/13	1/10/13	1/10/13	1/10/13	1/10/13	1/10/13	Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.0434	<0.00125	<0.000945	<0.00109	<0.00126	<0.000896	<0.00107	<0.000789	<0.000975	<0.0296	<0.00102	<0.000824	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane(1)	<0.0434	<0.00125	<0.000945	<0.00109	<0.00126	<0.000896	<0.00107	<0.000789	<0.000975	<0.0296	<0.00102	<0.000824	3.2	0.62	620	1.7	0.0035	0.0035
1,1,2-Trichloroethane	<0.0434	<0.00125	<0.000945	<0.00109	<0.00126	<0.000896	<0.00107	<0.000789	<0.000975	<0.0296	<0.00102	<0.000824	310	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.0434	<0.00125	<0.000945	<0.00109	<0.00126	<0.000896	<0.00107	<0.000789	<0.000975	<0.0296	<0.00102	<0.000824	7,800	1,300	200,000	130	23	110
1,1-Dichloroethene	<0.0434	<0.00125	<0.000945	<0.00109	<0.00126	<0.000896	<0.00107	<0.000789	<0.000975	<0.0296	<0.00102	<0.000824	3,900	290	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.0434	<0.00125	<0.000945	<0.00109	<0.00126	<0.000896	<0.00107	<0.000789	<0.000975	<0.0296	<0.00102	<0.000824	7	0.4	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.0434	<0.00125	<0.000945	<0.00109	<0.00126	<0.000896	<0.00107	<0.000789	<0.000975	<0.0296	<0.00102	<0.000824	9	15	1,800	0.50	0.03	0.15
2-Butanone (MEK)(1) & (2)	<0.434	<0.0125	0.0240	<0.0109	<0.0126	<0.00896	<0.0107	<0.00789	<0.00975	<0.296	<0.0102	<0.00824	47,000	25,000	120,000	730	17	17
2-Hexanone(1)	<1.08	<0.0312	<0.0236	<0.0272	<0.0315	<0.0224	<0.0266	<0.0197	<0.0244	<0.740	<0.0254	<0.0206	390	450	1,000	47	0.16	0.16
4-Methyl-2-pentanone (MIBK)(1)	<1.08	<0.0312	<0.0236	<0.0272	<0.0315	<0.0224	<0.0266	<0.0197	<0.0244	<0.740	<0.0254	<0.0206	6,300	3,100	160,000	340	2.5	2.5
Acetone	<1.08	<0.0312	0.108	<0.0272	<0.0315	<0.0224	<0.0266	0.0722	0.147	<0.740	<0.0254	<0.0206	70,000	100,000	--	100,000	25	25
Benzene	<0.0108	<0.000312	<0.000236	<0.000272	<0.000315	<0.000224	<0.000266	<0.000197	<0.000244	<0.00740	<0.000254	<0.000206	12	0.8	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.0434	<0.00125	<0.000945	<0.00109	<0.00126	<0.000896	<0.00107	<0.000789	<0.000975	<0.0296	<0.00102	<0.000824	10	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.0434	<0.00125	<0.000945	<0.00109	<0.00126	<0.000896	<0.00107	<0.000789	<0.000975	<0.0296	<0.00102	<0.000824	81	53	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.0434	<0.00125	<0.000945	<0.00109	<0.00126	<0.000896	<0.00107	<0.000789	<0.000975	<0.0296	<0.00102	<0.000824	110	10	1,000	3.9	0.2	1.2
Carbon Disulfide	<0.0434	<0.00125	0.00136	<0.00109	0.0277	<0.000896	0.0120	0.00383	0.00129	<0.0296	<0.00102	<0.000824	7,800	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.0434	<0.00125	<0.000945	<0.00109	<0.00126	<0.000896	<0.00107	<0.000789	<0.000975	<0.0296	<0.00102	<0.000824	5	0.3	410	0.9	0.07	0.33
Chlorobenzene	<0.0434	<0.00125	<0.000945	<0.00109	<0.00126	<0.000896	<0.00107	<0.000789	<0.000975	<0.0296	<0.00102	<0.000824	1,600	130	4,100	1.3	1	6.5
Chloroethane(1)	<0.0434	<0.00125	<0.000945	<0.00109	<0.00126	<0.000896	<0.00107	<0.000789	<0.000975	<0.0296	<0.00102	<0.000824	--	1,500	20,000	39	--	--
Chloroform	<0.0434	<0.00125	<0.000945	<0.00109	<0.00126	<0.000896	<0.00107	<0.000789	<0.000975	<0.0296	<0.00102	<0.000824	100	0.3	2,000	0.76	0.6	2.9
Chloromethane(1)	<0.0434	<0.00125	<0.000945	<0.00109	<0.00126	<0.000896	<0.00107	<0.000789	<0.000975	<0.0296	<0.00102	<0.000824	--	110	--	5	--	--
cis-1,2-Dichloroethene	<0.0434	<0.00125	<0.000945	<0.00109	<0.00126	<0.000896	<0.00107	<0.000789	<0.000975	<0.0296	<0.00102	<0.000824	780	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.0868	<0.0025	<0.00189	<0.00218	<0.00252	<0.001792	<0.00214	<0.001578	<0.00195	<0.0592	<0.00204	<0.001648	6.4	1.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.0434	<0.00125	<0.000945	<0.00109	<0.00126	<0.000896	<0.00107	<0.000789	<0.000975	<0.0296	<0.00102	<0.000824	1,600	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.0434	<0.00125	<0.000945	0.00111	<0.00126	<0.000896	<0.00107	<0.000789	<0.000975	<0.0296	<0.00102	<0.000824	7,800	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.0434	<0.00125	<0.000945	<0.00109	<0.00126	0.00262	<0.00107	<0.000789	<0.000975	<0.0296	0.00214	<0.000824	780	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.217	<0.00625	<0.00472	<0.00544	<0.00631	0.0317	<0.00533	<0.00394	<0.00487	<0.148	0.0187	<0.00412	85	13	12,000	34	0.02	0.2
Styrene	<0.0434	<0.00125	<0.000945	<0.00109	<0.00126	<0.000896	<0.00107	<0.000789	<0.000975	<0.0296	<0.00102	<0.000824	16,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.0868	<0.00250	<0.00189	<0.00218	<0.00252	<0.00179	<0.00213	<0.00158	<0.00195	<0.0592	<0.00203	<0.00165	12	11	2,400	28	0.06	0.3
Toluene	<0.0434	<0.00125	<0.000945	0.00143	<0.00126	0.00113	<0.00107	<0.000789	<0.000975	<0.0296	<0.00102	<0.000824	16,000	650	410,000	42	12	29
Total Xylenes	<0.0868	<0.00250	<0.00189	0.00271	<0.00252	<0.00179	<0.00213	<0.00158	<0.00195	<0.0592	<0.00203	<0.00165	16,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.0434	<0.00125	<0.000945	<0.00109	<0.00126	<0.000896	<0.00107	<0.000789	<0.000975	<0.0296	<0.00102	<0.000824	1,600	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.0434	<0.00125	<0.000945	<0.00109	<0.00126	<0.000896	<0.00107	<0.000789	<0.000975	<0.0296	<0.00102	<0.000824	58	5	1,200	12	0.06	0.3
Vinyl Chloride	<0.0434	<0.00125	<0.000945	<0.00109	<0.00126	<0.000896	<0.00107	<0.000789	<0.000975	<0.0296	<0.00102	<0.000824	0.46	0.28	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8260B/5035
Shaded/Bolded cell indicates value exceeds the most applicable Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A & B)
(1) SROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (October 30, 2012)
(2) Proposed TACO Chemical

TABLE NO. 1 (2 of 3)
Soil Sample Analytical Results: VOCs
NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois

Sample ID (Interval)	B-102 (0-3')	B-103 (0-3')	B-105 (0-3')	B-107 (0-3')	B-110 (4'-8')	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
						Residential		Construction Worker		Migration to Groundwater	
Collection Date	2/20/14	2/20/14	2/19/14	2/20/14	2/19/14	Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.000856	<0.00100	<0.000975	<0.000939	<0.000933	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane(1)	<0.000856	0.0024	<0.000975	<0.000939	<0.000933	3.2	0.62	620	1.7	0.0035	0.0035
1,1,2-Trichloroethane	<0.000856	<0.00100	<0.000975	<0.000939	<0.000933	310	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.000856	<0.00100	<0.000975	<0.000939	<0.000933	7,800	1,300	200,000	130	23	110
1,1-Dichloroethene	<0.000856	<0.00100	<0.000975	<0.000939	<0.000933	3,900	290	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.000856	<0.00100	<0.000975	<0.000939	<0.000933	7	0.4	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.000856	<0.00100	<0.000975	<0.000939	<0.000933	9	15	1,800	0.50	0.03	0.15
2-Butanone (MEK)(1) & (2)	<0.00856	<0.0100	<0.00975	<0.00939	<0.00933	47,000	25,000	120,000	730	17	17
2-Hexanone(1)	<0.0214	<0.0251	<0.0244	<0.0235	<0.0233	390	450	1,000	47	0.16	0.16
4-Methyl-2-pentanone (MIBK)(1)	<0.0214	<0.0251	<0.0244	<0.0235	<0.0233	6,300	3,100	160,000	340	2.5	2.5
Acetone	<0.0214	<0.0251	<0.0244	<0.0235	<0.0233	70,000	100,000	--	100,000	25	25
Benzene	0.00118	<0.000251	<0.000244	<0.000235	<0.000233	12	0.8	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.000856	<0.00100	<0.000975	<0.000939	<0.000933	10	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.000856	<0.00100	<0.000975	<0.000939	<0.000933	81	53	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.000856	<0.00100	<0.000975	<0.000939	<0.000933	110	10	1,000	3.9	0.2	1.2
Carbon Disulfide	<0.000856	0.002	<0.000975	<0.000939	0.00161	7,800	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.000856	<0.00100	<0.000975	<0.000939	<0.000933	5	0.3	410	0.9	0.07	0.33
Chlorobenzene	<0.000856	<0.00100	<0.000975	<0.000939	<0.000933	1,600	130	4,100	1.3	1	6.5
Chloroethane(1)	<0.000856	<0.00100	<0.000975	<0.000939	<0.000933	--	1,500	20,000	39	--	--
Chloroform	<0.000856	<0.00100	<0.000975	0.00165	<0.000933	100	0.3	2,000	0.76	0.6	2.9
Chloromethane(1)	<0.000856	<0.00100	<0.000975	<0.000939	<0.000933	--	110	--	5	--	--
cis-1,2-Dichloroethene	<0.000856	<0.00100	<0.000975	<0.000939	<0.000933	780	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.00170	<0.00200	<0.00194	<0.001878	<0.001866	6.4	1.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.000856	<0.00100	<0.000975	<0.000939	<0.000933	1,600	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	0.00262	0.00178	<0.000975	0.00162	<0.000933	7,800	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.000856	<0.00100	<0.000975	<0.000939	<0.000933	780	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.00428	<0.00502	<0.00488	<0.00469	<0.00466	85	13	12,000	34	0.02	0.2
Styrene	<0.000856	<0.00100	<0.000975	<0.000939	<0.000933	16,000	1,500	41,000	430	4	18
Tetrachloroethene	0.00363	<0.00201	<0.00195	0.00245	<0.00187	12	11	2,400	28	0.06	0.3
Toluene	<0.000856	<0.00100	<0.000975	<0.000939	<0.000933	16,000	650	410,000	42	12	29
Total Xylenes	0.0173	0.0108	0.00504	0.0103	0.00394	16,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.000856	<0.00100	<0.000975	<0.000939	<0.000933	1,600	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.000856	<0.00100	<0.000975	<0.000939	<0.000933	58	5	1,200	12	0.06	0.3
Vinyl Chloride	<0.000856	<0.00100	<0.000975	<0.000939	<0.000933	0.46	0.28	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8260B/5035
Shaded/Bolded cell indicates value exceeds the most applicable Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A & B)
(1) SROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (October 30, 2012)
(2) Proposed TACO Chemical

TABLE NO. 1 (3 of 3)
Soil Sample Analytical Results: VOCs
NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois

Sample ID (Interval)	B-115 (4'-8')	B-116 (4'-8')	B-120 (0-3')	B-122 (0-3')	B-123 (0-3')	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
						Residential		Construction Worker		Migration to Groundwater	
Collection Date	2/19/14	2/19/14	2/19/14	2/19/14	2/20/14	Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II
1,1,1-Trichloroethane	<0.000993	<0.00103	<0.00109	<0.00100	<0.00146	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane(1)	<0.000993	<0.00103	<0.00109	<0.00100	<0.00146	3.2	0.62	620	1.7	0.0035	0.0035
1,1,2-Trichloroethane	<0.000993	<0.00103	<0.00109	<0.00100	<0.00146	310	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.000993	<0.00103	<0.00109	<0.00100	<0.00146	7,800	1,300	200,000	130	23	110
1,1-Dichloroethene	<0.000993	<0.00103	<0.00109	<0.00100	<0.00146	3,900	290	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.000993	<0.00103	<0.00109	<0.00100	<0.00146	7	0.4	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.000993	<0.00103	<0.00109	<0.00100	<0.00146	9	15	1,800	0.50	0.03	0.15
2-Butanone (MEK)(1) & (2)	<0.00993	<0.0103	<0.0109	<0.0100	<0.0146	47,000	25,000	120,000	730	17	17
2-Hexanone(1)	<0.0248	<0.0256	<0.0272	<0.0251	<0.0365	390	450	1,000	47	0.16	0.16
4-Methyl-2-pentanone (MIBK)(1)	<0.0248	<0.0256	<0.0272	<0.0251	<0.0365	6,300	3,100	160,000	340	2.5	2.5
Acetone	<0.0248	0.104	0.0458	<0.0251	<0.0365	70,000	100,000	--	100,000	25	25
Benzene	<0.000248	<0.000256	<0.000272	<0.000251	<0.000365	12	0.8	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.000993	<0.00103	<0.00109	<0.00100	<0.00146	10	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.000993	<0.00103	<0.00109	<0.00100	<0.00146	81	53	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.000993	<0.00103	<0.00109	<0.00100	<0.00146	110	10	1,000	3.9	0.2	1.2
Carbon Disulfide	<0.000993	<0.00103	0.00617	<0.00100	<0.00146	7,800	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.000993	<0.00103	<0.00109	<0.00100	<0.00146	5	0.3	410	0.9	0.07	0.33
Chlorobenzene	<0.000993	<0.00103	<0.00109	<0.00100	<0.00146	1,600	130	4,100	1.3	1	6.5
Chloroethane(1)	<0.000993	<0.00103	<0.00109	<0.00100	<0.00146	--	1,500	20,000	39	--	--
Chloroform	<0.000993	<0.00103	<0.00109	<0.00100	<0.00146	100	0.3	2,000	0.76	0.6	2.9
Chloromethane(1)	<0.000993	<0.00103	<0.00109	<0.00100	<0.00146	--	110	--	5	--	--
cis-1,2-Dichloroethene	<0.000993	<0.00103	<0.00109	<0.00100	<0.00146	780	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.001866	<0.00206	<0.00218	<0.00200	<0.00292	6.4	1.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.000993	<0.00103	<0.00109	<0.00100	<0.00146	1,600	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	0.00214	0.0079	0.00125	0.00132	0.00153	7,800	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.000993	<0.00103	<0.00109	<0.00100	<0.00146	780	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.00497	<0.00513	<0.00545	<0.00502	<0.00730	85	13	12,000	34	0.02	0.2
Styrene	<0.000993	<0.00103	<0.00109	<0.00100	<0.00146	16,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.00199	<0.00205	<0.00218	<0.00201	<0.00292	12	11	2,400	28	0.06	0.3
Toluene	<0.000993	0.00209	<0.00109	<0.00100	<0.00146	16,000	650	410,000	42	12	29
Total Xylenes	0.00372	0.0236	0.00795	0.00894	0.0103	16,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.000993	<0.00103	<0.00109	<0.00100	<0.00146	1,600	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.000993	<0.00103	<0.00109	<0.00100	<0.00146	58	5	1,200	12	0.06	0.3
Vinyl Chloride	<0.000993	<0.00103	<0.00109	<0.00100	<0.00146	0.46	0.28	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8260B/5035
Shaded/Bolded cell indicates value exceeds the most applicable Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A & B)
(1) SROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (October 30, 2012)
(2) Proposed TACO Chemical

TABLE NO. 2 (1 of 2) Soil Sample Analytical Results: BTEX NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois						Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Soil Saturation Limit[1] C_{sat}
						Residential		Construction Worker		Migration to Groundwater		
Sample ID (Interval)	B-2 (4-8)	B-3 (4-8)	B-4 (4-8)	B-5 (4-8)	B-6 (0-4)	Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II	
Collection Date	1/9/13	1/9/13	1/9/13	1/9/13	1/9/13							
Benzene	<0.0108	<0.0114	0.0324	<0.0108	<0.000312	12	0.8	2,300	2.2	0.03	0.17	870
Ethylbenzene	<0.0433	<0.0454	<0.0491	<0.0434	<0.00125	7,800	400	20,000	58	13	19	400
Toluene	<0.0433	<0.0454	<0.0491	<0.0434	<0.00125	16,000	650	410,000	42	12	29	650
Total Xylenes	<0.0867	<0.0909	<0.0982	<0.0868	<0.00250	16,000	320	41,000	5.6	150	150	320

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8260B/5035
Shaded/Bolded cell indicates value exceeds the most applicable Tier 1 SRO
"<" indicates not detected at stated detection limits
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A & B)
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)

TABLE NO. 2 (2 of 2) Soil Sample Analytical Results: BTEX NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois						Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Soil Saturation Limit[1] C_{sat}
						Residential		Construction Worker		Migration to Groundwater		
Sample ID (Interval)	B-7 (4-8)	B-8 (4-8)	B-9 (0-3)	B-10 (4-8)	B-11 (0-3)	Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II	
Collection Date	1/9/13	1/9/13	1/9/13	1/9/13	1/9/13							
Benzene	<0.0112	<0.00970	<0.0114	<0.0975	<0.0149	12	0.8	2,300	2.2	0.03	0.17	870
Ethylbenzene	<0.0447	<0.0388	<0.0456	<0.390	<0.0596	7,800	400	20,000	58	13	19	400
Toluene	<0.0447	<0.0388	<0.0456	<0.390	<0.0596	16,000	650	410,000	42	12	29	650
Total Xylenes	<0.0893	<0.0776	<0.0912	<0.780	<0.119	16,000	320	41,000	5.6	150	150	320

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8260B/5035
Shaded/Bolded cell indicates value exceeds the most applicable Tier 1 SRO
"<" indicates not detected at stated detection limits
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A & B)
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table A)

TABLE NO. 3 (1 of 2) Soil Sample Analytical Results: SVOCs NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois				Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
				Residential		Construction Worker		Migration to Groundwater	
Sample ID (Interval)	B-102 (0-3')	B-103 (0-3')	B-105 (0-3')	Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II
Collection Date	2/20/14	2/20/14	2/19/14						
1,2,4-Trichlorobenzene	<0.283	<0.302	<0.292	780	3,200	2,000	920	5	53
1,2-Dichlorobenzene	<0.283	<0.302	<0.292	7,000	560	18,000	310	17	43
1,3-Dichlorobenzene	<0.283	<0.302	<0.292	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.283	<0.302	<0.292	--	11,000	--	340	2	11
2, 2'-oxybis(1-chloropropane)(1)	<0.283	<0.302	<0.292	3,100	--	8,200	--	2.4	2.4
2,4,5-Trichlorophenol	<0.283	<0.302	<0.292	7,800	--	200,000	--	270	1,400
2,4,6-Trichlorophenol	<0.283	<0.302	<0.292	58	200	11,000	540	0.2	0.77
2,4-Dichlorophenol	<0.283	<0.302	<0.292	230	--	610	--	1	1
2,4-Dimethylphenol	<0.283	<0.302	<0.292	1,600	--	41,000	--	9	9
2,4-Dinitrophenol	<0.283	<0.302	<0.292	160	--	410	--	0.2	0.2
2,4-Dinitrotoluene	<0.283	<0.302	<0.292	0.9	--	180	--	0.0008	0.0008
2,6-Dinitrotoluene	<0.283	<0.302	<0.292	0.9	--	180	--	0.0007	0.0007
2-Chloronaphthalene(1)	<0.283	<0.302	<0.292	6,300	--	41,000	--	49	240
2-Chlorophenol	<0.283	<0.302	<0.292	390	53,000	10,000	53,000	4	20
2-Methylnaphthalene(1) & (2)	<0.283	0.488	<0.292	310	--	820	--	1.9	9.5
2-Methylphenol (o-Cresol)	<0.283	<0.302	<0.292	3,900	--	100,000	--	15	15
2-Nitroaniline(1)	<0.283	<0.302	<0.292	1,200	18	31,000	1.5	0.7	0.7
2-Nitrophenol	<0.283	<0.302	<0.292	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.283	<0.302	<0.292	1	--	280	--	0.007	0.033
3,4-Methylphenol (m,p-Cresol)(1)	<0.283	<0.302	<0.292	3,900(4)	100,000(4)	4,100(4)	3,300(4)	2(4)	2(4)
3-Nitroaniline(1)	<0.283	<0.302	<0.292	--	--	200	--	--	--
4,6-Dinitro-2-methylphenol(1)	<0.283	<0.302	<0.292	6.3	--	160	--	0.0023(3)	0.0023(3)
4-Bromophenyl-phenyl ether	<0.283	<0.302	<0.292	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.283	<0.302	<0.292	--	--	--	--	--	--
4-Chloroaniline	<0.283	<0.302	<0.292	310	--	820	--	0.7	0.7
4-Chlorophenyl-phenyl ether	<0.283	<0.302	<0.292	--	--	--	--	--	--
4-Nitroaniline(1)	<0.283	<0.302	<0.292	310	1,500	2,000	52	0.14	0.14
4-Nitrophenol	<0.283	<0.302	<0.292	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.283	<0.302	<0.292	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.283	<0.302	<0.292	0.6	0.2	75	0.66	0.0004	0.0004
Bis(2-ethylhexyl)phthalate	<0.283	<0.302	0.467	46	31,000	4,100	31,000	3,600	31,000
Butylbenzylphthalate	<0.283	<0.302	<0.292	16,000	930	410,000	930	930	930
Carbazole	0.365	0.54	<0.292	32	--	6,200	--	0.6	2.8
Dibenzofuran(1)	1.36	0.708	<0.292	78	--	820	--	3	15
Diethylphthalate	<0.283	<0.302	<0.292	63,000	2,000	1,000,000	2,000	470	470
Dimethylphthalate(1)	<0.283	<0.302	<0.292	--	--	20,000	--	--	--
Di-n-butylphthalate	<0.283	<0.302	<0.292	7,800	2,300	200,000	2,300	2,300	2,300
Di-n-octylphthalate	<0.283	<0.302	<0.292	1,600	10,000	4,100	10,000	10,000	10,000
Hexachlorobenzene	<0.283	<0.302	<0.292	0.4	1	78	2.6	2	11
Hexachlorobutadiene(1)	<0.283	<0.302	<0.292	78	--	200	--	2.2	11
Hexachlorocyclopentadiene	<0.283	<0.302	<0.292	550	10	14,000	1.1	400	2,200
Hexachloroethane	<0.283	<0.302	<0.292	78	--	2,000	--	0.5	2.6
Isophorone	<0.283	<0.302	<0.292	15,600	4,600	410,000	4,600	8	8
Nitrobenzene	<0.0567	<0.0604	<0.0583	39	92	1,000	9.4	0.1	0.1
N-Nitroso-di-n-propylamine	<0.283	<0.302	<0.292	0.09	--	18	--	0.00005	0.00005
N-Nitrosodiphenylamine	<0.283	<0.302	<0.292	130	--	25,000	--	1	5.6
Pentachlorophenol	<0.283	<0.302	<0.292	3	--	520	--	0.03	0.14
Phenol	<0.283	<0.302	<0.292	23,000	--	61,000	--	100	100

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8270C
Shaded/Bolded cell indicates value exceeds the most applicable Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A & B)
(1) SROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (October 30, 2012)
(2) Proposed TACO Chemical
(3) Most stringent pH-Specific value
(4) The laboratory is currently unable to separate the 3- and 4- Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported, and the more stringent Non-TACO objectives for either 3- or 4,-Methylphenol are provided for comparison.

TABLE NO. 3 (2 of 2)
Soil Sample Analytical Results: SVOCs
NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois

Sample ID (Interval)	B-107 (0-3')	B-110 (4'-8')	B-116 (4'-8')	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
				Residential		Construction Worker		Migration to Groundwater	
				Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II
Collection Date	**2/20/14**	**2/19/14**	**2/19/14**						
1,2,4-Trichlorobenzene	<0.277	<0.305	<0.308	780	3,200	2,000	920	5	53
1,2-Dichlorobenzene	<0.277	<0.305	<0.308	7,000	560	18,000	310	17	43
1,3-Dichlorobenzene	<0.277	<0.305	<0.308	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.277	<0.305	<0.308	--	11,000	--	340	2	11
2, 2'-oxybis(1-chloropropane)(1)	<0.277	<0.305	<0.308	3,100	--	8,200	--	2.4	2.4
2,4,5-Trichlorophenol	<0.277	<0.305	<0.308	7,800	--	200,000	--	270	1,400
2,4,6-Trichlorophenol	<0.277	<0.305	<0.308	58	200	11,000	540	0.2	0.77
2,4-Dichlorophenol	<0.277	<0.305	<0.308	230	--	610	--	1	1
2,4-Dimethylphenol	<0.277	<0.305	<0.308	1,600	--	41,000	--	9	9
2,4-Dinitrophenol	<0.277	<0.305	<0.308	160	--	410	--	0.2	0.2
2,4-Dinitrotoluene	<0.277	<0.305	<0.308	0.9	--	180	--	0.0008	0.0008
2,6-Dinitrotoluene	<0.277	<0.305	<0.308	0.9	--	180	--	0.0007	0.0007
2-Chloronaphthalene(1)	<0.277	<0.305	<0.308	6,300	--	41,000	--	49	240
2-Chlorophenol	<0.277	<0.305	<0.308	390	53,000	10,000	53,000	4	20
2-Methylnaphthalene(1) & (2)	<0.277	<0.305	9.45	310	--	820	--	1.9	9.5
2-Methylphenol (o-Cresol)	<0.277	<0.305	<0.308	3,900	--	100,000	--	15	15
2-Nitroaniline(1)	<0.277	<0.305	<0.308	1,200	18	31,000	1.5	0.7	0.7
2-Nitrophenol	<0.277	<0.305	<0.308	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.277	<0.305	<0.308	1	--	280	--	0.007	0.033
3,4-Methylphenol (m,p-Cresol)(1)	<0.277	<0.305	<0.308	3,900(4)	100,000(4)	4,100(4)	3,300(4)	2(4)	2(4)
3-Nitroaniline(1)	<0.277	<0.305	<0.308	--	--	200	--	--	--
4,6-Dinitro-2-methylphenol(1)	<0.277	<0.305	<0.308	6.3	--	160	--	0.0023(3)	0.0023(3)
4-Bromophenyl-phenyl ether	<0.277	<0.305	<0.308	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.277	<0.305	<0.308	--	--	--	--	--	--
4-Chloroaniline	<0.277	<0.305	<0.308	310	--	820	--	0.7	0.7
4-Chlorophenyl-phenyl ether	<0.277	<0.305	<0.308	--	--	--	--	--	--
4-Nitroaniline(1)	<0.277	<0.305	<0.308	310	1,500	2,000	52	0.14	0.14
4-Nitrophenol	<0.277	<0.305	<0.308	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.277	<0.305	<0.308	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.277	<0.305	<0.308	0.6	0.2	75	0.66	0.0004	0.0004
Bis(2-ethylhexyl)phthalate	<0.277	<0.305	<0.308	46	31,000	4,100	31,000	3,600	31,000
Butylbenzylphthalate	<0.277	<0.305	<0.308	16,000	930	410,000	930	930	930
Carbazole	<0.277	<0.305	<0.308	32	--	6,200	--	0.6	2.8
Dibenzofuran(1)	<0.277	<0.305	<0.308	78	--	820	--	3	15
Diethylphthalate	<0.277	<0.305	<0.308	63,000	2,000	1,000,000	2,000	470	470
Dimethylphthalate(1)	<0.277	<0.305	<0.308	--	--	20,000	--	--	--
Di-n-butylphthalate	<0.277	<0.305	<0.308	7,800	2,300	200,000	2,300	2,300	2,300
Di-n-octylphthalate	<0.277	<0.305	<0.308	1,600	10,000	4,100	10,000	10,000	10,000
Hexachlorobenzene	<0.277	<0.305	<0.308	0.4	1	78	2.6	2	11
Hexachlorobutadiene(1)	<0.277	<0.305	<0.308	78	--	200	--	2.2	11
Hexachlorocyclopentadiene	<0.277	<0.305	<0.308	550	10	14,000	1.1	400	2,200
Hexachloroethane	<0.277	<0.305	<0.308	78	--	2,000	--	0.5	2.6
Isophorone	<0.277	<0.305	<0.308	15,600	4,600	410,000	4,600	8	8
Nitrobenzene	<0.0554	<0.0610	<0.0615	39	92	1,000	9.4	0.1	0.1
N-Nitroso-di-n-propylamine	<0.277	<0.305	<0.308	0.09	--	18	--	0.00005	0.00005
N-Nitrosodiphenylamine	<0.277	<0.305	<0.308	130	--	25,000	--	1	5.6
Pentachlorophenol	<0.277	<0.305	<0.308	3	--	520	--	0.03	0.14
Phenol	<0.277	<0.305	<0.308	23,000	--	61,000	--	100	100

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8270C
Shaded/Bolded cell indicates value exceeds the most applicable Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A & B)
(1) SROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (October 30, 2012)
(2) Proposed TACO Chemical
(3) Most stringent pH-Specific value
(4) The laboratory is currently unable to separate the 3- and 4- Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported, and the more stringent Non-TACO objectives for either 3- or 4,-Methylphenol are provided for comparison.

TABLE NO. 4 (1 of 5) Soil Sample Analytical Results: PNAs NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois								Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
								Residential		Construction Worker		Migration to Groundwater	
Sample ID (Interval)	B-2 (4-8)	B-4 (4-8)	B-5 (4-8)	B-6 (0-4)	B-9 (0-3)	B-10 (4-8)	B-11 (0-3)	Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II
Collection Date	1/9/13	1/9/13	1/9/13	1/9/13	1/9/13	1/9/13	1/9/13						
Acenaphthene	<0.0475	<0.0484	2.65	1.70	0.143	1.30	<0.0481	4,700	--	120,000	--	570	2,900
Acenaphthylene[1]	<0.0475	<0.0484	1.01	1.10	1.47	0.594	<0.0481	2,300	--	61,000	--	85	420
Anthracene	<0.0475	0.0989	12.2	4.05	1.31	0.452	<0.0481	23,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	<0.0475	0.511	**3.58**	**6.81**	**4.34**	<0.0466	0.171	0.9[2]/1.1[3]	--	170	--	2	8
Benzo(a)pyrene	<0.0475	0.708	**1.69**	**7.26**	**5.23**	<0.0466	0.170	0.09[2]/1.3[3]	--	17	--	8	82
Benzo(b)fluoranthene	<0.0475	0.809	0.706	**8.47**	**5.98**	<0.0466	0.223	0.9[2]/1.5[3]	--	170	--	5	25
Benzo(g,h,i)perylene[1]	<0.0475	0.471	0.820	3.32	1.45	<0.0466	0.0496	2,300	--	61,000	--	27,000	130,000
Benzo(k)fluoranthene	<0.0475	0.263	<0.439	3.19	2.41	<0.0466	0.0905	9	--	1,700	--	49	250
Chrysene	<0.0475	0.604	4.78	6.89	4.76	<0.0466	0.182	88	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.0475	0.0850	<0.439	**1.03**	**0.583**	<0.0466	<0.0481	0.09[2]/0.2[3]	--	17	--	2	7.6
Fluoranthene	<0.0475	0.878	3.79	13.8	7.02	0.0658	0.338	3,100	--	82,000	--	4,300	21,000
Fluorene	<0.0475	<0.0484	9.40	1.83	0.390	3.74	<0.0481	3,100	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	<0.0475	0.356	<0.439	**3.49**	**1.69**	<0.0466	0.0497	0.9	--	170	--	14	69
Naphthalene	<0.0475	<0.0484	<0.439	1.06	0.486	0.316	<0.0481	1,600	170	4,100	1.8	12	18
Phenanthrene[1]	<0.0475	0.360	27.5	11.2	3.03	5.68	0.181	2,300	--	61,000	--	210	1,100
Pyrene	<0.0475	1.23	21.2	11.7	6.02	0.137	0.286	2,300	--	61,000	--	4,200	21,000

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8270C
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A & B)
(1) SROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (October 30, 2012)
(2) Pursuant to 35 IAC 742, the background concentration may be utilized in place of default Tier 1 SRO for ingestion exposure route
(3) Background concentration for Chicago pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table H)

TABLE NO. 4 (2 of 5)
Soil Sample Analytical Results: PNAs
NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois

Sample ID (Interval)	B-12 (0-3)	B-13 (0-3)	B-14 (0-3)	B-15 (0-3)	B-16 (0-3)	B-17 (0-3)	B-18 (0-3)	B-19 (4-8)	B-20 (0-3)	B-21 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
											Residential		Construction Worker		Migration to Groundwater	
Collection Date	1/10/13	1/10/13	1/10/13	1/10/13	1/10/13	1/10/13	1/10/13	1/10/13	1/10/13	1/10/13	Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II
Acenaphthene	<0.0443	<0.0438	<0.0442	0.858	0.343	0.136	<0.0425	0.386	0.278	0.0713	4,700	--	120,000	--	570	2,900
Acenaphthylene[1]	<0.0443	1.41	<0.0442	<0.401	0.154	0.108	0.200	0.186	0.0831	0.188	2,300	--	61,000	--	85	420
Anthracene	0.0805	0.265	<0.0442	2.78	0.987	0.404	0.141	0.127	1.10	0.298	23,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.192	**2.21**	0.101	**4.40**	**3.50**	**1.20**	0.866	<0.0421	**3.37**	**1.37**	0.9[2]/1.1[3]	--	170	--	2	8
Benzo(a)pyrene	0.204	**2.83**	0.104	**3.87**	**3.45**	1.20	0.998	<0.0421	**3.74**	**1.53**	0.09[2]/1.3[3]	--	17	--	8	82
Benzo(b)fluoranthene	0.225	**3.62**	0.120	**4.72**	**3.44**	1.49	1.25	<0.0421	**4.73**	**1.69**	0.9[2]/1.5[3]	--	170	--	5	25
Benzo(g,h,i)perylene[1]	0.122	0.721	0.0512	1.52	0.685	0.393	0.163	<0.0421	0.883	0.542	2,300	--	61,000	--	27,000	130,000
Benzo(k)fluoranthene	0.0747	1.11	<0.0442	1.86	1.46	0.462	0.440	<0.0421	2.21	0.538	9	--	1,700	--	49	250
Chrysene	0.211	2.03	0.117	4.60	3.47	1.13	0.933	<0.0421	4.26	1.36	88	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.0443	**0.277**	<0.0442	**0.411**	**0.225**	0.123	0.0631	<0.0421	**0.308**	0.137	0.09[2]/0.2[3]	--	17	--	2	7.6
Fluoranthene	0.418	1.79	0.184	10.8	4.78	2.02	0.923	<0.0421	7.01	2.04	3,100	--	82,000	--	4,300	21,000
Fluorene	0.0555	0.125	<0.0442	1.11	0.432	0.161	0.0559	1.00	0.507	0.0620	3,100	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.115	0.842	<0.0442	**1.51**	0.775	0.417	0.190	<0.0421	**1.08**	0.520	0.9	--	170	--	14	69
Naphthalene	0.181	0.840	0.0980	1.55	0.167	0.223	0.250	0.0751	0.0775	0.0839	1,600	170	4,100	1.8	12	18
Phenanthrene[1]	0.287	0.889	0.216	10.8	3.08	1.21	0.611	1.30	3.40	1.00	2,300	--	61,000	--	210	1,100
Pyrene	0.405	1.68	0.222	8.83	4.25	1.75	1.00	<0.0421	5.45	2.21	2,300	--	61,000	--	4,200	21,000

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8270C
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A & B)
(1) SROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (October 30, 2012)
(2) Pursuant to 35 IAC 742, the background concentration may be utilized in place of default Tier 1 SRO for ingestion exposure route
(3) Background concentration for Chicago pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table H)

TABLE NO. 4 (3 of 5)
Soil Sample Analytical Results: PNAs
NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois

Sample ID (Interval)	B-101 (0-3')	B-102 (0-3')	B-103 (0-3')	B-104 (0-3')	B-105 (0-3')	B-106 (0-3')	B-107 (0-3')	B-109 (0-3')	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Residential		Construction Worker		Migration to Groundwater	
Collection Date	2/20/14	2/20/14	2/20/14	2/20/14	2/19/14	2/19/14	2/20/14	2/19/14	Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II
Acenaphthene	0.0476	0.726	0.647	0.353	<0.0583	<0.0479	<0.0554	<0.0511	4,700	--	120,000	--	570	2,900
Acenaphthylene[1]	<0.0431	0.705	0.0634	0.0618	<0.0583	0.0855	<0.0554	<0.0511	2,300	--	61,000	--	85	420
Anthracene	0.18	2.44	1.52	0.289	0.115	0.0814	<0.0554	<0.0511	23,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.592	**4.68**	**2.28**	**1.12**	0.371	0.506	<0.0554	0.0745	0.9[2]/1.1[3]	--	170	--	2	8
Benzo(a)pyrene	0.542	**3.27**	**1.81**	1.07	0.322	0.676	<0.0554	0.0888	0.09[2]/1.3[3]	--	17	--	8	82
Benzo(b)fluoranthene	0.718	**4.6**	**2.67**	1.29	0.437	0.704	<0.0554	0.0875	0.9[2]/1.5[3]	--	170	--	5	25
Benzo(g,h,i)perylene[1]	0.31	0.749	0.486	0.579	0.19	0.411	<0.0554	0.0589	2,300	--	61,000	--	27,000	130,000
Benzo(k)fluoranthene	0.224	2.13	0.694	0.41	0.161	0.182	<0.0554	<0.0511	9	--	1,700	--	49	250
Chrysene	0.607	3.98	2.17	1.03	0.381	0.53	<0.0554	0.0897	88	--	17,000	--	160	800
Dibenzo(a,h)anthracene	0.0765	**0.397**	**0.242**	0.139	0.0735	0.0781	<0.0554	<0.0511	0.09[2]/0.2[3]	--	17	--	2	7.6
Fluoranthene	1.37	8.55	5	2.23	0.725	0.818	<0.0554	0.165	3,100	--	82,000	--	4,300	21,000
Fluorene	0.0543	0.955	1.15	0.12	<0.0583	<0.0479	<0.0554	<0.0511	3,100	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.281	0.796	0.5	0.493	0.16	0.327	<0.0554	<0.0511	0.9	--	170	--	14	69
Naphthalene	0.106	0.224	0.912	0.265	<0.0583	0.0543	<0.0554	<0.0511	1,600	170	4,100	1.8	12	18
Phenanthrene[1]	0.853	4.92	5.73	0.939	0.515	0.294	<0.0554	0.0798	2,300	--	61,000	--	210	1,100
Pyrene	1.07	6.48	4.45	1.89	0.643	0.996	<0.0554	0.192	2,300	--	61,000	--	4,200	21,000

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8270C
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A & B)
(1) SROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (October 30, 2012)
(2) Pursuant to 35 IAC 742, the background concentration may be utilized in place of default Tier 1 SRO for ingestion exposure route
(3) Background concentration for Chicago pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table H)

TABLE NO. 4 (4 of 5)
Soil Sample Analytical Results: PNAs
NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois

Sample ID (Interval)	B-110 (4'-8')	B-111 (0-3')	B-112 (0-3')	B-113 (0-3')	B-114 (0-3')	B-115 (4'-8')	B-116 (0-3')	B-116 (4'-8')	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Residential		Construction Worker		Migration to Groundwater	
									Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II
Collection Date	**2/19/14**	**2/19/14**	**2/19/14**	**2/19/14**	**2/19/14**	**2/19/14**	**2/19/14**	**2/19/14**						
Acenaphthene	<0.0610	<0.0479	0.293	0.393	<0.455	0.107	<0.0467	0.547	4,700	--	120,000	--	570	2,900
Acenaphthylene[1]	<0.0610	<0.0479	0.233	0.158	<0.455	0.0526	<0.0467	<0.0615	2,300	--	61,000	--	85	420
Anthracene	<0.0610	0.0619	1.07	1.27	0.862	0.0525	<0.0467	0.114	23,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	<0.0610	0.199	**4.47**	**3.07**	**4.9**	<0.0493	0.164	<0.0615	0.9[2]/1.1[3]	--	170	--	2	8
Benzo(a)pyrene	<0.0610	0.228	**3.75**	**2.69**	**4.4**	<0.0493	0.167	<0.0615	0.09[2]/1.3[3]	--	17	--	8	82
Benzo(b)fluoranthene	<0.0610	0.282	**4.39**	**2.92**	**5.75**	<0.0493	0.198	<0.0615	0.9[2]/1.5[3]	--	170	--	5	25
Benzo(g,h,i)perylene[1]	<0.0610	0.159	1.94	1.09	2.35	<0.0493	0.228	<0.0615	2,300	--	61,000	--	27,000	130,000
Benzo(k)fluoranthene	<0.0610	0.112	1.29	0.71	2.14	<0.0493	0.0728	<0.0615	9	--	1,700	--	49	250
Chrysene	<0.0610	0.27	3.53	2.56	5.01	<0.0493	0.245	<0.0615	88	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.0610	<0.0479	**0.487**	**0.305**	**0.58**	<0.0493	0.0535	<0.0615	0.09[2]/0.2[3]	--	17	--	2	7.6
Fluoranthene	<0.0610	0.749	6.15	4.68	9.56	<0.0493	0.213	<0.0615	3,100	--	82,000	--	4,300	21,000
Fluorene	<0.0610	<0.0479	0.292	0.522	<0.455	0.249	<0.0467	0.871	3,100	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	<0.0610	0.128	**1.85**	**0.994**	**2.07**	<0.0493	0.132	<0.0615	0.9	--	170	--	14	69
Naphthalene	<0.0610	<0.0479	0.184	0.649	<0.455	<0.0493	0.0873	<0.0615	1,600	170	4,100	1.8	12	18
Phenanthrene[1]	<0.0610	0.517	4.24	4.52	2.1	0.379	0.132	1.75	2,300	--	61,000	--	210	1,100
Pyrene	<0.0610	0.599	5.25	4.15	7.26	<0.0493	0.244	<0.0615	2,300	--	61,000	--	4,200	21,000

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8270C
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A & B)
(1) SROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (October 30, 2012)
(2) Pursuant to 35 IAC 742, the background concentration may be utilized in place of default Tier 1 SRO for ingestion exposure route
(3) Background concentration for Chicago pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table H)

TABLE NO. 4 (5 of 5)
Soil Sample Analytical Results: PNAs
NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois

Sample ID (Interval)	B-117 (0-3')	B-118 (0-3')	B-119 (0-3')	B-119 (4'-8')	B-120 (0-3')	B-121 (0-3')	B-122 (0-3')	B-123 (0-3')	Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
									Residential		Construction Worker		Migration to Groundwater	
Collection Date	2/19/14	2/19/14	2/19/14	2/19/14	2/19/14	2/19/14	2/19/14	2/20/14	Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II
Acenaphthene	0.0559	<0.0479	<0.0469	<0.0484	0.793	0.0564	0.721	<0.0483	4,700	--	120,000	--	570	2,900
Acenaphthylene(1)	<0.0474	<0.0479	<0.0469	<0.0484	<0.491	<0.0525	0.125	<0.0483	2,300	--	61,000	--	85	420
Anthracene	0.159	<0.0479	<0.0469	<0.0484	2.95	0.222	1.78	<0.0483	23,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	0.447	<0.0479	<0.0469	<0.0484	**5.97**	**1.2**	**4.16**	<0.0483	0.9(2)/1.1(3)	--	170	--	2	8
Benzo(a)pyrene	0.484	<0.0479	<0.0469	<0.0484	**5.17**	1.21	**4.51**	<0.0483	0.09(2)/1.3(3)	--	17	--	8	82
Benzo(b)fluoranthene	0.612	<0.0479	<0.0469	<0.0484	**6.48**	1.44	**4.68**	0.0554	0.9(2)/1.5(3)	--	170	--	5	25
Benzo(g,h,i)perylene(1)	0.291	<0.0479	<0.0469	<0.0484	2.88	0.54	2.12	<0.0483	2,300	--	61,000	--	27,000	130,000
Benzo(k)fluoranthene	0.214	<0.0479	<0.0469	<0.0484	1.94	0.446	1.46	<0.0483	9	--	1,700	--	49	250
Chrysene	0.477	<0.0479	<0.0469	<0.0484	5.75	1.1	5.19	<0.0483	88	--	17,000	--	160	800
Dibenzo(a,h)anthracene	0.0637	<0.0479	<0.0469	<0.0484	**0.644**	0.132	**0.586**	<0.0483	0.09(2)/0.2(3)	--	17	--	2	7.6
Fluoranthene	1.11	<0.0479	<0.0469	<0.0484	16	2.2	10	0.0897	3,100	--	82,000	--	4,300	21,000
Fluorene	0.0602	<0.0479	<0.0469	<0.0484	1.58	0.0528	0.77	<0.0483	3,100	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.254	<0.0479	<0.0469	<0.0484	**2.59**	0.523	**2.01**	<0.0483	0.9	--	170	--	14	69
Naphthalene	<0.0474	<0.0479	<0.0469	<0.0484	<0.491	0.0531	0.623	<0.0483	1,600	170	4,100	1.8	12	18
Phenanthrene(1)	0.619	<0.0479	<0.0469	<0.0484	10.6	0.83	8.18	<0.0483	2,300	--	61,000	--	210	1,100
Pyrene	0.844	<0.0479	<0.0469	<0.0484	11.7	1.87	10.3	0.0828	2,300	--	61,000	--	4,200	21,000

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8270C
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A & B)
(1) SROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (October 30, 2012)
(2) Pursuant to 35 IAC 742, the background concentration may be utilized in place of default Tier 1 SRO for ingestion exposure route
(3) Background concentration for Chicago pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table H)

TABLE NO. 5 (1 of 6)
Soil Sample Analytical Results: RCRA 8 Metals
NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois

Sample ID (Interval)	B-3 (4-8)	B-5 (4-8)	B-6 (0-4)	B-7 (4-8)	B-8 (4-8)	B-12 (0-3)	B-13 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)									
								Residential		Construction Worker		pH-Specific Migration to Groundwater Values					
												pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0	
Collection Date	**1/9/13**	**1/9/13**	**1/9/13**	**1/9/13**	**1/9/13**	**1/10/13**	**1/10/13**	**Ingestion**	**Outdoor Inhalation**	**Ingestion**	**Outdoor Inhalation**	**Class I**	**Class II**	**Class I**	**Class II**	**Class I**	**Class II**
pH	**8.56**	**8.38**	**8.10**	**8.28**	**8.56**	**7.77**	**9.20**										
Arsenic	--	<1.14	<1.14	--	--	<1.14	<1.13	13[2]	750	61	25,000	31	120	32	130	33	130
Barium	--	7.43	172	--	--	91.0	208	5,500	690,000	14,000	870,000	2,100	2,100	--	--	--	--
Cadmium	--	0.894	2.91	--	--	1.74	2.46	78	1,800	200	59,000	430	4,300	--	--	--	--
Chromium	--	4.96	43.5	--	--	26.4	40.3	230	270	4,100	690	28	--	24	--	21	--
Lead	7.41	5.88	101	6.28	7.58	67.1	373	400	--	700	--	107	1,420	107	1,420	282	3,760
Mercury	--	<0.0239	**0.211**	--	--	**0.153**	0.0576	23	10	61	0.1	8	40	--	--	--	--
Selenium	--	<1.29	<1.29	--	--	<1.29	<1.27	390	--	1,000	--	2.4	2.4	1.8	1.8	1.3	1.3
Silver	--	<0.0594	<0.0594	--	--	<0.0594	<0.0588	390	--	1,000	--	110	--	--	--	--	--

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 6020/7471A
Shaded/Bolded cell indicates value exceeds the most applicable Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A through D)
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table G)
(2) Pursuant to 35 IAC 742, the background concentration may be utilized as the Tier 1 SRO for ingestion exposure route

TABLE NO. 5 (2 of 6)
Soil Sample Analytical Results: RCRA 8 Metals
NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois

Sample ID (Interval)	B-14 (0-3)	B-15 (0-3)	B-16 (0-3)	B-17 (0-3)	B-18 (0-3)	B-19 (4-8)	B-20 (0-3)	B-21 (0-3)	Tier 1 Soil Remediation Objectives (Tier 1 SROs)								
									Residential		Construction Worker		pH-Specific Migration to Groundwater Values				
													pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0	
Collection Date	**1/10/13**	**1/10/13**	**1/10/13**	**1/10/13**	**1/10/13**	**1/10/13**	**1/10/13**	**1/10/13**	**Ingestion**	**Outdoor Inhalation**	**Ingestion**	**Outdoor Inhalation**	**Class I**	**Class II**	**Class I**	**Class II**	**Class I**	**Class II**
pH	**8.25**	**8.67**	**9.70**	**8.63**	**8.21**	**8.17**	**8.53**	**8.43**										
Arsenic	<1.13	<1.14	<1.14	<1.14	<1.15	2.19	3.77	3.13	13[2]	750	61	25,000	31	120	32	130	33	130
Barium	127	164	82.2	137	221	8.46	86.0	91.3	5,500	690,000	14,000	870,000	2,100	2,100	--	--	--	--
Cadmium	1.56	3.13	1.01	1.69	2.20	0.160	0.448	0.768	78	1,800	200	59,000	430	4,300	--	--	--	--
Chromium	35.0	46.8	15.4	38.7	41.6	6.06	8.09	13.0	230	270	4,100	690	28	--	24	--	21	--
Lead	39.9	102	109	292	186	6.21	136	139	400	--	700	--	107	1,420	107	1,420	282	3,760
Mercury	**1.10**	0.0776	**0.153**	**0.186**	**0.375**	0.0709	**0.470**	**0.471**	23	10	61	0.1	8	40	--	--	--	--
Selenium	<1.27	<1.29	<1.29	<1.29	<1.30	<1.30	<1.30	<1.27	390	--	1,000	--	2.4	2.4	1.8	1.8	1.3	1.3
Silver	<0.0588	<0.0594	<0.0594	<0.0594	<0.0600	<0.0600	<0.0600	0.235	390	--	1,000	--	110	--	--	--	--	--

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 6020/7471A
Shaded/Bolded cell indicates value exceeds the most applicable Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A through D)
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table G)
(2) Pursuant to 35 IAC 742, the background concentration may be utilized as the Tier 1 SRO for ingestion exposure route

TABLE NO. 5 (3 of 6) Soil Sample Analytical Results: RCRA 8 Metals NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois					Tier 1 Soil Remediation Objectives (Tier 1 SROs)							
					Residential		Construction Worker		pH-Specific Migration to Groundwater Values			
									pH = 8.25 - 8.74		pH = 8.75 - 9.0	
Sample ID (Interval)	**B-101 (0-3')**	**B-104 (0-3')**	**B-106 (0-3')**	**B-109 (0-3')**	**Ingestion**	**Outdoor Inhalation**	**Ingestion**	**Outdoor Inhalation**	**Class I**	**Class II**	**Class I**	**Class II**
Collection	**2/20/14**	**2/20/14**	**2/19/14**	**2/19/14**								
pH	**9.47**	**8.68**	**8.68**	**8.33**								
Arsenic	5.39	3.89	3.72	2.05	13[2]	750	61	25,000	32	130	33	130
Barium	27.3	59.9	89.7	63	5,500	690,000	14,000	870,000	--	--	--	--
Cadmium	0.256	0.7	1.23	1.65	78	1,800	200	59,000	--	--	--	--
Chromium	6.1	8.52	9.78	17.2	230	270	4,100	690	24	--	21	--
Lead	30.2	122	283	164	400	--	700	--	107	1,420	282	3,760
Mercury	**0.41**	**0.685**	**0.861**	**0.147**	23	10	61	0.1	--	--	--	--
Selenium	<1.30	<1.27	<1.29	<1.24	390	--	1,000	--	1.8	1.8	1.3	1.3
Silver	<0.0600	<0.0588	0.0925	<0.0571	390	--	1,000	--	--	--	--	--

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 6020/7471A
Shaded/Bolded cell indicates value exceeds the most applicable Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A through D)
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table G)
(2) Pursuant to 35 IAC 742, the background concentration may be utilized as the Tier 1 SRO for ingestion exposure route

TABLE NO. 5 (4 of 6) Soil Sample Analytical Results: RCRA 8 Metals NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois					Tier 1 Soil Remediation Objectives (Tier 1 SROs)							
					Residential		Construction Worker		pH-Specific Migration to Groundwater Values			
									pH = 8.25 - 8.74		pH = 8.75 - 9.0	
Sample ID (Interval)	**B-111 (0-3')**	**B-112 (0-3')**	**B-113 (0-3')**	**B-114 (0-3')**	**Ingestion**	**Outdoor Inhalation**	**Ingestion**	**Outdoor Inhalation**	**Class I**	**Class II**	**Class I**	**Class II**
Collection	**2/19/14**	**2/19/14**	**2/19/14**	**2/19/14**								
pH	**8.52**	**9.84**	**8.35**	**8.58**								
Arsenic	1.62	5.75	7.92	1.21	13[2]	750	61	25,000	32	130	33	130
Barium	61.5	73.5	197	78.2	5,500	690,000	14,000	870,000	--	--	--	--
Cadmium	1.52	1.36	1.74	1.12	78	1,800	200	59,000	--	--	--	--
Chromium	14.3	12.2	12	11	230	270	4,100	690	24	--	21	--
Lead	137	177	275	130	400	--	700	--	107	1,420	282	3,760
Mercury	**0.123**	**0.469**	**0.369**	**0.147**	23	10	61	0.1	--	--	--	--
Selenium	<1.25	<1.24	<1.26	<1.25	390	--	1,000	--	1.8	1.8	1.3	1.3
Silver	<0.0577	<0.0571	0.204	<0.0577	390	--	1,000	--	--	--	--	--

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 6020/7471A
Shaded/Bolded cell indicates value exceeds the most applicable Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A through D)
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table G)
(2) Pursuant to 35 IAC 742, the background concentration may be utilized as the Tier 1 SRO for ingestion exposure route

TABLE NO. 5 (5 of 6)
Soil Sample Analytical Results: RCRA 8 Metals
NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois

Sample ID (Interval)	B-115 (4'-8')	B-116 (0-3')	B-117 (0-3')	B-118 (0-3')	B-119 (0-3')	Tier 1 Soil Remediation Objectives (Tier 1 SROs)									
						Residential		Construction Worker		pH-Specific Migration to Groundwater Values					
										pH = 7.25 - 7.74		pH = 8.25 - 8.74		pH = 8.75 - 9.0	
Collection	2/19/14	2/19/14	2/19/14	2/19/14	2/19/14	Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II	Class I	Class II	Class I	Class II
pH	**7.74**	**11.20**	**8.67**	**10.40**	**9.41**										
Arsenic	2.52	2.1	<1.14	3.4	<1.12	13[2]	750	61	25,000	30	120	32	130	33	130
Barium	7.16	282	234	46.9	160	5,500	690,000	14,000	870,000	1,800	1,800	--	--	--	--
Cadmium	0.684	1.28	1.03	1.14	3.36	78	1,800	200	59,000	59	590	--	--	--	--
Chromium	4.16	11.5	9.73	8.93	55.4	230	270	4,100	690	32	--	24	--	21	--
Lead	5.03	**711**	72.4	**4430**	23	400	--	700	--	107	1,420	107	1,420	282	3,760
Mercury	<0.0248	**0.105**	**1.86**	**0.977**	**0.974**	23	10	61	0.1	6.4	32	--	--	--	--
Selenium	<1.25	<1.29	<1.29	<1.26	**3.14**	390	--	1,000	--	3.3	3.3	1.8	1.8	1.3	1.3
Silver	<0.0577	0.215	4.9	0.881	<0.0583	390	--	1,000	--	39	--	--	--	--	--

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 6020/7471A
Shaded/Bolded cell indicates value exceeds the most applicable Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A through D)
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table G)
(2) Pursuant to 35 IAC 742, the background concentration may be utilized as the Tier 1 SRO for ingestion exposure route

TABLE NO. 5 (6 of 6)
Soil Sample Analytical Results: RCRA 8 Metals
NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois

Sample ID (Interval)	B-119 (4'-8')	B-120 (0-3')	B-121 (0-3')	B-122 (0-3')	B-123 (0-3')	Tier 1 Soil Remediation Objectives (Tier 1 SROs)									
						Residential		Construction Worker		pH-Specific Migration to Groundwater Values					
										pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0	
Collection	2/19/14	2/19/14	2/19/14	2/19/14	2/20/14	Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II	Class I	Class II	Class I	Class II
pH	**8.50**	**8.20**	**8.45**	**7.96**	**8.96**										
Arsenic	2.37	1.89	4.85	8.47	4.07	13[2]	750	61	25,000	31	120	32	130	33	130
Barium	17	146	78.7	347	22.4	5,500	690,000	14,000	870,000	2,100	2,100	--	--	--	--
Cadmium	0.785	0.689	0.581	0.676	0.208	78	1,800	200	59,000	430	4,300	--	--	--	--
Chromium	6.49	11.9	9.54	10.3	7.65	230	270	4,100	690	28	--	24	--	21	--
Lead	26.9	104	144	**1100**	15.6	400	--	700	--	107	1,420	107	1,420	282	3,760
Mercury	<0.0225	**0.937**	**0.563**	**3.34**	**0.13**	23	10	61	0.1	8	40	--	--	--	--
Selenium	<1.25	<1.27	<1.24	<1.27	<1.30	390	--	1,000	--	2.4	2.4	1.8	1.8	1.3	1.3
Silver	<0.0577	<0.0588	<0.0571	0.175	<0.0600	390	--	1,000	--	110	--	--	--	--	--

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 6020/7471A
Shaded/Bolded cell indicates value exceeds the most applicable Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A through D)
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table G)
(2) Pursuant to 35 IAC 742, the background concentration may be utilized as the Tier 1 SRO for ingestion exposure route

TABLE NO. 6
Soil Sample Analytical Results: TCL Metals
NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois

Sample ID (Interval)	B-102 (0-3')	B-103 (0-3')	B-105 (0-3')	B-107 (0-3')	B-110 (4'-8')	B-116 (4'-8')	Tier 1 Soil Remediation Objectives (Tier 1 SROs)									
							Residential		Construction Worker		pH-Specific Migration to Groundwater Values					
											pH = 7.75 - 8.24		pH = 8.25 - 8.74		pH = 8.75 - 9.0	
Collection Date	**2/20/14**	**2/20/14**	**2/19/14**	**2/20/14**	**2/19/14**	**2/19/14**	**Ingestion**	**Outdoor Inhalation**	**Ingestion**	**Outdoor Inhalation**	**Class I**	**Class II**	**Class I**	**Class II**	**Class I**	**Class II**
pH	**8.67**	**9.66**	**8.87**	**7.96**	**8.64**	**7.83**										
Aluminum[2]	27200	20600	9320	9520	2150	2510	78,000	1,000,000	200,000	870,000	--	--	--	--	--	--
Antimony	**22.6**	**20.6**	9.34	13	6.63	7.49	31	--	82	--	5	20	5	20	5	20
Arsenic	<1.12	<1.12	<1.10	<1.14	3.67	3.11	13[3]	750	61	25,000	31	120	32	130	33	130
Barium	162	128	99.1	58.9	9.37	24.3	5,500	690,000	14,000	870,000	2,100	2,100	--	--	--	--
Beryllium	1.92	1.58	1.07	0.594	<0.0363	0.107	160	1,300	410	44,000	8,000	1,000,000	--	--	--	--
Cadmium	2.92	2.97	0.969	1.68	0.85	0.781	78	1,800	200	59,000	430	4,300	--	--	--	--
Calcium	63900	73600	97500	118000	102000	63800	--[4]	--	--[4]	--	--	--	--	--	--	--
Chromium	45.7	35.7	9.73	18.2	5.64	5.85	230	270	4,100	690	28	--	24	--	21	--
Cobalt	5.65	4.48	3.37	2.85	3.45	4.58	4,700	--	12,000	--	--	--	--	--	--	--
Copper	18	13.8	16.4	8.45	9.92	9.2	2,900	--	8,200	--	330,000	330,000	--	--	--	--
Cyanide	0.26	<0.12	0.14	<0.11	<0.12	<0.12	1,600	--	4,100	--	40	120	40	120	40	120
Iron	47300	37300	10500	20000	8890	7440	--	--	--	--	--	--	--	--	--	--
Lead	46.2	29.2	73.5	17.9	6.17	31.5	400	--	700	--	107	1,420	107	1,420	282	3,760
Magnesium	9980	13700	19900	56000	45100	19800	325,000	--	730,000	--	--	--	--	--	--	--
Manganese	389	383	947	280	436	327	1,600	69,000	4,100	8,700	--	--	--	--	--	--
Mercury	**1.46**	**1.41**	0.0975	**1.06**	<0.0227	**0.859**	23	10	61	0.1	8	40	--	--	--	--
Nickel	21.3	17	8.18	9.39	7.87	8.71	1,600	13,000	4,100	440,000	3,800	76,000	--	--	--	--
Potassium	4220	3130	1160	1720	449	455	--[4]	--	--[4]	--	--		--		--	
Selenium	**1.92**	**1.33**	<1.24	<1.29	<1.27	<1.26	390	--	1,000	--	2.4	2.4	1.8	1.8	1.3	1.3
Silver	<0.0583	<0.0583	<0.0571	<0.0594	<0.0588	<0.0583	390	--	1,000	--	110	--	--	--	--	--
Sodium	1810	1350	701	778	251	107	--[4]	--	--[4]	--	--	--	--	--	--	--
Thallium	<0.432	<0.432	<0.424	<0.441	<0.436	<0.432	6.3	--	160	--	3.8	38	4.4	44	4.9	49
Vanadium	42.2	32.6	12	17.3	10.8	10	550	--	1,400	--	980	--	980	--	980	--
Zinc	216	198	54.7	89.7	32.2	35.5	23,000	--	61,000	--	53,000	110,000	--	--	--	--

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 6020/7471A/9012A
Shaded/Bolded cell indicates value exceeds the most applicable Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A through D)
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table G)
(2) SROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (October 30, 2012)
(3) Pursuant to 35 IAC 742 the background concentration may be utilized as the Tier 1 SRO for ingestion exposure route
(4) Chemical-specific properties are such that this route is not of concern at any soil contaminant concentration

TABLE NO. 7 (1 of 2) Soil Sample Analytical Results: TRPH NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois			Default Soil Attenuation Capacity[1]	
Sample ID (Interval)	**B-5 (4-8)**	**B-10 (4-8)**	**Subsurface Soils[2]**	**Surface Soils[3]**
Collection Date	**1/9/13**	**1/9/13**		
TRPH	**4,040**	**4,510**	2,000	6,000

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8015M
Shaded/Bolded cell indicates value exceeds the Default Attenuation Capacity
"<" indicates not detected at stated detection limits
"--" indicates value not available
TRPH = Total Recoverable Petroleum Hydrocarbons
(1) Pursuant to 35 IAC 742.215(b)(1)(A)
(2) soils below one meter of the surface
(3) soils within the top meter of the surface

TABLE NO. 7 (2 of 2) Soil Sample Analytical Results: TRPH NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois						Default Soil Attenuation Capacity[1]	
Sample ID (Interval)	**B-108 (4'-8')**	**B-114 (4'-8')**	**B-115 (4'-8')**	**B-116 (4'-8')**	**B-119 (4'-8')**	**Subsurface Soils[2]**	**Surface Soils[3]**
Collection Date	**2/20/14**	**2/20/14**	**2/19/14**	**2/19/14**	**2/19/14**		
TRPH	<32.2	<32.2	281	732	<39.8	2,000	6,000

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8015M
Shaded/Bolded cell indicates value exceeds the Default Attenuation Capacity
"<" indicates not detected at stated detection limits
"--" indicates value not available
TRPH = Total Recoverable Petroleum Hydrocarbons
(1) Pursuant to 35 IAC 742.215(b)(1)(A)
(2) soils below one meter of the surface
(3) soils within the top meter of the surface

TABLE NO. 8 Soil Sample Analytical Results: Pesticides NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois							Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
							Residential		Construction Worker		Migration to Groundwater	
Sample ID (Interval)	B-102 (0-3')	B-103 (0-3')	B-105 (0-3')	B-107 (0-3')	B-110 (4'-8')	B-116 (4'-8')	Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II
Collection Date	2/20/14	2/20/14	2/19/14	2/20/14	2/19/14	2/19/14						
4,4'-DDD	<0.00190	<0.0100	<0.00195	<0.00915	<0.00201	<0.00204	3	--	520	--	16	80
4,4'-DDE	<0.00190	<0.0100	<0.00195	<0.00915	<0.00201	<0.00204	2	--	370	--	54	270
4,4'-DDT	<0.00190	<0.0100	<0.00195	<0.00915	<0.00201	<0.00204	2	--	100	2,100	32	160
Aldrin	<0.00094	<0.00500	<0.00097	<0.00457	<0.00100	<0.00102	0.04	3	6.1	9.3	0.5	2.5
alpha-BHC (a-HCH)	<0.00094	<0.00500	<0.00097	<0.00457	<0.00100	<0.00102	0.1	0.8	20	2.1	0.0005	0.003
alpha-Chlordane	<0.00094	<0.00500	<0.00097	<0.00457	<0.00100	<0.00102	--	--	--	--	--	--
b-BHC	<0.00094	<0.00500	<0.00097	<0.00457	<0.00100	<0.00102	--	--	--	--	--	--
Chlordane	<0.0189	<0.0996	<0.0194	<0.0910	<0.0200	<0.0203	1.8	72	100	22	10	48
d-BHC	<0.00094	<0.0100	<0.00097	<0.00913	<0.00100	<0.00102	--	--	--	--	--	--
Dieldrin	<0.00190	<0.0100	<0.00195	<0.0183	<0.00201	<0.00204	0.04	1	7.8	3.1	0.004	0.02
Endosulfan I	<0.00094	<0.00500	<0.00097	<0.00457	<0.00100	<0.00102	--	--	--	--	--	--
Endosulfan II	<0.00190	<0.0100	<0.00195	<0.00915	<0.00201	<0.00204	--	--	--	--	--	--
Endosulfan Sulfate	<0.00190	<0.0100	<0.00195	<0.00915	<0.00201	<0.00204	--	--	--	--	--	--
Endrin	<0.00190	<0.0100	<0.00195	<0.00915	<0.00201	<0.00204	23	--	61	--	1	5
Endrin aldehyde	<0.00190	<0.0100	<0.00195	<0.00915	<0.00201	<0.00204	--	--	--	--	--	--
Endrin ketone	<0.00190	<0.0100	<0.00195	<0.00915	<0.00201	<0.00204	--	--	--	--	--	--
g-BHC (Lindane)	<0.00094	<0.0100	<0.00097	<0.00457	<0.00100	<0.00102	0.5	--	96	--	0.009	0.047
g-Chlordane	<0.00094	<0.00500	<0.00097	<0.00457	<0.00100	<0.00102	--	--	--	--	--	--
Heptachlor	<0.00949	<0.0100	<0.00097	<0.00913	<0.00100	<0.00102	0.1	0.1	28	16	23	110
Heptachlor epoxide	<0.00094	<0.00500	<0.00097	<0.00457	<0.00100	<0.00102	0.07	5	2.7	13	0.7	3.3
Methoxychlor	<0.0949	<0.0500	<0.00973	<0.0913	<0.0100	<0.0102	390	--	1,000	--	160	780
Toxaphene	<0.0380	<0.200	<0.0389	<0.183	<0.0402	<0.0406	0.6	89	110	240	31	150

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8081
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A & B)

TABLE NO. 9 Soil Sample Analytical Results: PCBs NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois							Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
							Residential		Construction Worker		Migration to Groundwater	
Sample ID (Interval)	B-102 (0-3')	B-103 (0-3')	B-105 (0-3')	B-107 (0-3')	B-110 (4'-8')	B-116 (4'-8')	Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II
Collection Date	2/20/14	2/20/14	2/19/14	2/20/14	2/19/14	2/19/14						
Aroclor 1016	<0.190	<0.200	<0.0390	<0.183	<0.0403	<0.0408	--	--	--	--	--	--
Aroclor 1221	<0.190	<0.200	<0.0390	<0.183	<0.0403	<0.0408	--	--	--	--	--	--
Aroclor 1232	<0.190	<0.200	<0.0390	<0.183	<0.0403	<0.0408	--	--	--	--	--	--
Aroclor 1242	<0.190	<0.200	<0.0390	<0.183	<0.0403	<0.0408	--	--	--	--	--	--
Aroclor 1248	<0.190	<0.200	<0.0390	<0.183	<0.0403	<0.0408	--	--	--	--	--	--
Aroclor 1254	<0.190	<0.200	<0.0390	<0.183	<0.0403	<0.0408	--	--	--	--	--	--
Aroclor 1260	<0.190	<0.200	<0.0390	<0.183	<0.0403	<0.0408	--	--	--	--	--	--
Total PCBs	<1.330	<1.400	<0.273	<1.281	<0.2821	<0.2856	1.0	--(1)	1.0	--(1)	--(1)	--(1)

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8082
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A & B)
(1) Applicability requirements and methodologies for development of SROs under Tier 3 must be developed pursuant to 40 CFR Part 761

TABLE NO. 10 Soil Sample Analytical Results: SPLP Sb, Pb, Se NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois			Tier 1 Soil Remediation Objectives (Tier 1 SROs)	
			Migration to Groundwater	
Sample ID (Interval)	**B-102 (0-3')**	**B-118 (0-3')**	**Class I**	**Class II**
Collection Date	**2/20/14**	**2/19/14**		
Antimony	0.00366	--	5	20
Lead	--	<0.0067	0.0075	0.1
Selenium	0.00372	--	0.05	0.05

Notes: Results listed in mg/L (parts per million)

EPA test method SW846, 1311/6020 & 1311/7470A

Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO

"<" indicates not detected at stated detection limits

"--" indicates value not available

SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table A)

(1) Pursuant to 35 IAC 721.124 & 40 CFR 261.24

TABLE NO. 11 Soil Sample Analytical Results: TCLP Mercury NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois		Maximum Allowable Concentration to Meet Hazardous Characteristic[1]
Sample ID (Interval)	**B-122 (0-3')**	
Collection Date	**3/26/14**	
Mercury	<0.0002	0.2

Notes: Results listed in mg/L (parts per million)
EPA test method SW846, 1311/6020 & 1311/7470A
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (App
(1) Pursuant to 35 IAC 721.124 & 40 CFR 261.24

TABLE NO. 12 Groundwater Sample Analytical Results: VOCs NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois								Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-1**	**MW-2**	**MW-3**	**MW-4**	**MW-5**	**MW-6**	**MW-7**	**Class I**	**Class II**	**Indoor Inhalation - Residential**
Collection Date	**3/3/14**	**3/3/14**	**3/3/14**	**3/3/14**	**3/3/14**	**3/3/14**	**3/3/14**			
1,1,1-Trichloroethane	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.2	1	1,000
1,1,2,2-Tetrachloroethane(1)	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.0043	0.0043	--
1,1,2-Trichloroethane	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.005	0.05	4,400
1,1-Dichloroethane	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.7	3.5	180
1,1-Dichloroethene	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.007	0.035	24
1,2-Dichloroethane	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.005	0.025	0.054
1,2-Dichloropropane	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.005	0.025	0.12
2-Butanone (MEK)(1) & (2)	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	4.2	4.2	10,000
2-Hexanone(1)	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	0.035	0.035	--
4-Methyl-2-pentanone (MIBK)(1)	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	0.56	0.56	--
Acetone	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	6.3	6.3	1,000,000
Benzene	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.005	0.025	0.11
Bromodichloromethane	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.0002	0.0002	6,700
Bromoform	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.001	0.001	3.1
Bromomethane (Methyl Bromide)	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.0098	0.049	1.5
Carbon Disulfide	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.7	3.5	67
Carbon Tetrachloride	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.005	0.025	0.020
Chlorobenzene	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.1	0.5	26
Chloroethane(1)	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	--	--
Chloroform	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.0002	0.001	0.07
Chloromethane(1)	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	--	--	--
cis-1,2-Dichloroethene	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.07	0.2	3,500
1,3-Dichloropropene (cis + trans)	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.001	0.005	0.14
Dibromochloromethane	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.14	0.14	2,600
Ethylbenzene	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.7	1	0.37
Methyl Tertiary-Butyl Ether	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.07	0.07	1,900
Methylene Chloride	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.005	0.05	2.1
Styrene	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.1	0.5	310
Tetrachloroethene	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.005	0.025	0.091
Toluene	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	1	2.5	530
Total Xylenes	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	10	10	30
trans-1,2-Dichloroethene	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.1	0.5	16
Trichloroethene	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.005	0.025	0.34
Vinyl Chloride	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.002	0.01	0.028

Notes: Results in mg/L (parts per million)
EPA test method SW846, 5030B/8260B
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 GRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO chemicals provided by IEPA Toxicity Assessment Unit (October 30, 2012)
(2) Current TACO chemical for the Indoor Inhalation exposure route; proposed TACO chemical for the Class I and Class II groundwater ingestion exposure routes

TABLE NO. 13 Groundwater Sample Analytical Results: SVOCs NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois					Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-1**	**MW-3**	**MW-4**	**MW-5**	**Class I**	**Class II**	**Indoor Inhalation - Residential**
Collection Date	**3/3/14**	**3/3/14**	**3/3/14**	**3/3/14**			
1,2,4-Trichlorobenzene	<0.010	<0.010	<0.010	<0.010	0.07	0.7	1.8
1,2-Dichlorobenzene	<0.010	<0.010	<0.010	<0.010	0.6	1.5	140
1,3-Dichlorobenzene	<0.010	<0.010	<0.010	<0.010	--	--	--
1,4-Dichlorobenzene	<0.010	<0.010	<0.010	<0.010	0.075	0.375	79
2, 2'-oxybis(1-chloropropane)(1)	<0.010	<0.010	<0.010	<0.010	0.28	0.28	--
2,4,5-Trichlorophenol	<0.010	<0.010	<0.010	<0.010	0.7(3)	3.5(3)	--
2,4,6-Trichlorophenol	<0.010	<0.010	<0.010	<0.010	0.01(3)	0.01(3)	--
2,4-Dichlorophenol	<0.010	<0.010	<0.010	<0.010	0.021	0.021	--
2,4-Dimethylphenol	<0.010	<0.010	<0.010	<0.010	0.14	0.14	--
2,4-Dinitrophenol	<0.010	<0.010	<0.010	<0.010	0.014	0.014	--
2,4-Dinitrotoluene	<0.010	<0.010	<0.010	<0.010	0.00002	0.00002	--
2,6-Dinitrotoluene	<0.010	<0.010	<0.010	<0.010	0.00031	0.00031	--
2-Chloronaphthalene(1)	<0.010	<0.010	<0.010	<0.010	0.56	2.8	--
2-Chlorophenol	<0.010	<0.010	<0.010	<0.010	0.035(3)	0.035(3)	22,000
2-Methylnaphthalene(1) & (2)	<0.010	<0.010	<0.010	<0.010	0.028	0.14	25
2-Methylphenol (o-Cresol)	<0.010	<0.010	<0.010	<0.010	0.35	0.35	26,000
2-Nitroaniline(1)	<0.010	<0.010	<0.010	<0.010	0.105	0.105	--
2-Nitrophenol	<0.010	<0.010	<0.010	<0.010	--	--	--
3,3´-Dichlorobenzidine	<0.010	<0.010	<0.010	<0.010	0.02	0.1	--
3,4-Methylphenol (m,p-Cresol)(1)	<0.010	<0.010	<0.010	<0.010	0.035(4)	0.035(4)	--
3-Nitroaniline(1)	<0.010	<0.010	<0.010	<0.010	--	--	--
4,6-Dinitro-2-methylphenol(1)	<0.010	<0.010	<0.010	<0.010	0.00056	0.00056	--
4-Bromophenyl-phenyl ether	<0.010	<0.010	<0.010	<0.010	--	--	--
4-Chloro-3-methylphenol	<0.010	<0.010	<0.010	<0.010	--	--	--
4-Chloroaniline	<0.010	<0.010	<0.010	<0.010	0.028	0.028	--
4-Chlorophenyl-phenyl ether	<0.010	<0.010	<0.010	<0.010	--	--	--
4-Nitroaniline(1)	<0.010	<0.010	<0.010	<0.010	0.028	0.028	--
4-Nitrophenol	<0.010	<0.010	<0.010	<0.010	--	--	--
Bis(2-chloroethoxy)methane	<0.010	<0.010	<0.010	<0.010	--	--	--
Bis(2-chloroethyl)ether	<0.010	<0.010	<0.010	<0.010	0.01	0.01	0.083
Bis(2-ethylhexyl)phthalate	<0.010	<0.010	<0.010	<0.010	0.006	0.06	--
Butylbenzylphthalate	<0.010	<0.010	<0.010	<0.010	1.4	7	--
Carbazole	<0.010	<0.010	<0.010	<0.010	--	--	--
Dibenzofuran(1)	<0.010	<0.010	<0.010	<0.010	0.007	0.035	--
Diethylphthalate	<0.010	<0.010	<0.010	<0.010	5.6	5.6	--
Dimethylphthalate(1)	<0.010	<0.010	<0.010	<0.010	--	--	--
Di-n-butylphthalate	<0.010	<0.010	<0.010	<0.010	0.7	3.5	--
Di-n-octylphthalate	<0.010	<0.010	<0.010	<0.010	0.14	0.7	--
Hexachlorobenzene	<0.010	<0.010	<0.010	<0.010	0.00006	0.0003	0.0059
Hexachlorobutadiene(1)	<0.010	<0.010	<0.010	<0.010	0.007	0.035	--
Hexachlorocyclopentadiene	<0.010	<0.010	<0.010	<0.010	0.05	0.5	0.084
Hexachloroethane	<0.010	<0.010	<0.010	<0.010	0.007	0.035	50
Isophorone	<0.010	<0.010	<0.010	<0.010	1.4	1.4	12,000
Nitrobenzene	<0.010	<0.010	<0.010	<0.010	0.0035	0.0035	0.044
N-Nitrosodi-n-propylamine	<0.010	<0.010	<0.010	<0.010	0.0018	0.0018	0.34
N-Nitrosodiphenylamine	<0.010	<0.010	<0.010	<0.010	0.0032	0.016	--
Pentachlorophenol	<0.010	<0.010	<0.010	<0.010	0.001	0.005	--
Phenol	<0.010	<0.010	<0.010	<0.010	0.1	0.1	28,000

Notes: Results in mg/L (parts per million)
EPA test method SW846, 3510C/8270C
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 GRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (October 30, 2012)
(2) Current TACO chemical for the Indoor Inhalation exposure route; proposed TACO chemical for the Class I and Class II groundwater ingestion exposure routes
(3) Most stringent pH-Specific value
(4) The laboratory is currently unable to separate the 3- and 4- Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported, and the more stringent Non-TACO objectives for 3,-Methylphenol are provided for comparison.

TABLE NO. 14 Groundwater Sample Analytical Results: PNAs NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois								Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-1**	**MW-2**	**MW-3**	**MW-4**	**MW-5**	**MW-6**	**MW-7**	**Class I**	**Class II**	**Indoor Inhalation - Residential**
Collection Date	**3/3/14**	**3/3/14**	**3/3/14**	**3/3/14**	**3/3/14**	**3/3/14**	**3/3/14**			
Acenaphthene	0.000182	0.000926	0.000855	<0.000100	0.000337	<0.000100	<0.000100	0.42	2.1	--
Acenaphthylene(1)	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	0.21	1.05	--
Anthracene	0.000128	0.000363	0.000138	<0.000100	<0.000100	<0.000100	<0.000100	2.1	10.5	--
Benzo(a)anthracene	0.000292	<0.000100	0.000113	<0.000100	<0.000100	0.000144	<0.000100	0.00013	0.00065	--
Benzo(a)pyrene	0.000284	<0.000100	0.000123	<0.000100	<0.000100	0.000143	<0.000100	0.0002	0.002	--
Benzo(b)fluoranthene	0.00037	<0.000100	0.000118	<0.000100	<0.000100	0.000182	<0.000100	0.00018	0.0009	--
Benzo(g,h,i)perylene(1)	0.000182	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	0.21	1.05	--
Benzo(k)fluoranthene	0.000142	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	0.00017	0.00085	--
Chrysene	0.000305	<0.000100	<0.000100	<0.000100	<0.000100	0.000148	<0.000100	0.0015	0.0075	--
Dibenzo(a,h)anthracene	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	0.0003	0.0015	--
Fluoranthene	0.000695	0.000559	0.000345	<0.000100	0.000192	0.000364	<0.000100	0.28	1.4	--
Fluorene	<0.000100	0.00162	0.000221	<0.000100	<0.000100	<0.000100	<0.000100	0.28	1.4	--
Indeno(1,2,3-cd)pyrene	0.000143	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	<0.000100	0.00043	0.00215	--
Naphthalene	<0.000100	<0.000100	0.000673	<0.000100	<0.000100	<0.000100	<0.000100	0.14	0.22	0.075
Phenanthrene(1)	0.000524	0.00187	0.000664	<0.000100	<0.000100	0.000213	<0.000100	0.21	1.05	--
Pyrene	0.000583	0.000502	0.00028	<0.000100	0.000154	0.000305	<0.000100	0.21	1.05	--

Notes: Results in mg/L (parts per million)
EPA test method SW846, 3510C/8270C-SIM
Shaded/Bolded cell indicates value exceeds the most applicable Tier 1 GRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (October 30, 2012)

TABLE NO. 15 Groundwater Sample Analytical Results: RCRA 8 Metals NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois				Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-2**	**MW-6**	**MW-7**	**Class I**	**Class II**	**Indoor Inhalation - Residential**
Collection Date	**3/3/14**	**3/3/14**	**3/3/14**			
Arsenic	<0.0200	0.0767	0.061	0.05	0.2	--
Barium	0.0762	0.0413	0.0601	2	2	--
Cadmium	0.00219	0.0123	0.00996	0.005	0.05	--
Chromium	<0.00500	<0.00500	<0.00500	0.1	1	--
Lead	<0.00671	<0.00671	<0.00671	0.0075	0.1	--
Mercury	<0.0002	<0.0002	<0.0002	0.002	0.01	0.053(1)
Selenium	<0.0250	<0.0250	<0.0250	0.05	0.05	--
Silver	<0.00200	<0.00200	<0.00200	0.05	--	--

Notes: Results in mg/L (parts per million)
EPA test method SW846, 3005A/6020, 7470A
Shaded/Bolded cell indicates value exceeds the most applicable Tier 1 GRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) Pursuant to 35 IAC 742, the inhalation objective only applies at sites where elemental mercury is a contaminant of concern

TABLE NO. 16 Groundwater Sample Analytical Results: TCL Metals NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois					Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-1**	**MW-3**	**MW-4**	**MW-5**	**Class I**	**Class II**	**Indoor Inhalation - Residential**
Collection Date	**3/3/14**	**3/3/14**	**3/3/14**	**3/3/14**			
Aluminum[1]	0.185	0.112	0.058	0.0291	3.5	5	--
Antimony	0.00208	<0.00060	<0.00060	0.00133	0.006	0.024	--
Arsenic	<0.0200	0.0307	0.0237	<0.0200	0.05	0.2	--
Barium	0.0322	0.0836	0.1	0.119	2	2	--
Beryllium	<0.00250	<0.00250	<0.00250	<0.00250	0.004	0.5	--
Cadmium	0.00295	<0.00100	0.00193	0.00119	0.005	0.05	--
Calcium	175	270	151	132	--	--	--
Chromium	<0.00500	<0.00500	<0.00500	<0.00500	0.1	1	--
Cobalt	<0.00909	<0.00909	<0.00909	<0.00909	1	1	--
Copper	0.0033	<0.00299	0.00484	0.00324	0.65	0.65	--
Cyanide	<0.01	<0.01	<0.01	<0.01	0.2	0.6	--
Iron	0.196	0.0831	0.0679	0.0281	5	5	--
Lead	0.00199	0.00085	0.00043	0.00047	0.0075	0.1	--
Magnesium	113	9.76	86.6	69.5	--	--	--
Manganese	0.113	0.017	0.202	0.214	0.15	10	--
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	0.002	0.01	0.053[2]
Nickel	<0.00400	0.00459	<0.00400	<0.00400	0.1	2	--
Potassium	28.4	88.4	13.5	8.13	--	--	--
Selenium	<0.0250	<0.0250	<0.0250	<0.0250	0.05	0.05	--
Silver	<0.00200	<0.00200	<0.00200	<0.00200	0.05	--	--
Sodium	317	66.3	374	279	--	--	--
Thallium	<0.00010	<0.00010	<0.00020	<0.00010	0.002	0.02	--
Vanadium	0.00259	<0.00259	<0.00259	<0.00259	0.049	0.1	--
Zinc	<0.0150	<0.0150	<0.0150	<0.0150	5	10	--

Notes: Results in mg/L (parts per million)
EPA test method SW846, 3005A/6020, 7470A, 9012A
Shaded/Bolded cell indicates value exceeds the most applicable Tier 1 GRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)
(1) GROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (October 30, 2012)
(2) Pursuant to 35 IAC 742, the inhalation objective only applies at sites where elemental mercury is a contaminant of concern

TABLE NO. 17 Groundwater Sample Analytical Results: Pesticides NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois					Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-1**	**MW-3**	**MW-4**	**MW-5**	**Class I**	**Class II**	**Indoor Inhalation - Residential**
Collection Date	**3/3/14**	**3/3/14**	**3/3/14**	**3/3/14**			
4,4'-DDD	<0.0000500	<0.0000500	<0.0000500	<0.0000500	0.014	0.07	--
4,4'-DDE	<0.0000500	<0.0000500	<0.0000500	<0.0000500	0.01	0.05	--
4,4'-DDT	<0.0000500	<0.0000500	<0.0000500	<0.0000500	0.006	0.03	--
Aldrin	<0.0000250	<0.0000250	<0.0000250	<0.0000250	0.014	0.07	--
alpha-BHC (a-HCH)	<0.0000250	<0.0000250	<0.0000250	<0.0000250	0.00011	0.00055	--
alpha-Chlordane	<0.0000250	<0.0000250	<0.0000250	<0.0000250	--	--	--
b-BHC	<0.0000250	<0.0000250	<0.0000250	<0.0000250	--	--	--
Chlordane	<0.000100	<0.000100	<0.000100	<0.000100	0.002	0.01	--
d-BHC	<0.0000250	<0.0000250	<0.0000250	<0.0000250	--	--	--
Dieldrin	<0.0000500	<0.0000500	<0.0000500	<0.0000500	0.009	0.045	--
Endosulfan I	<0.0000250	<0.0000250	<0.0000250	<0.0000250	--	--	--
Endosulfan II	<0.0000500	<0.0000500	<0.0000500	<0.0000500	--	--	--
Endosulfan Sulfate	<0.0000500	<0.0000500	<0.0000500	<0.0000500	--	--	--
Endrin	<0.0000500	<0.0000500	<0.0000500	<0.0000500	0.002	0.01	--
Endrin Aldehyde	<0.0000500	<0.0000500	<0.0000500	<0.0000500	--	--	--
Endrin Ketone	<0.0000500	<0.0000500	<0.0000500	<0.0000500	--	--	--
g-BHC (Lindane)	<0.0000250	<0.0000250	<0.0000250	<0.0000250	0.0002	0.001	--
gamma-Chlordane	<0.0000250	<0.0000250	<0.0000250	<0.0000250	--	--	--
Heptachlor	<0.0000250	<0.0000250	<0.0000250	<0.0000250	0.0004	0.002	0.0025
Heptachlor Epoxide	<0.0000250	<0.0000250	<0.0000250	<0.0000250	0.0002	0.001	--
Methoxychlor	<0.000250	<0.000250	<0.000250	<0.000250	0.04	0.2	--
Toxaphene	<0.000200	<0.000200	<0.000200	<0.000200	0.003	0.015	--

Notes: Results in mg/L (parts per million)
EPA test method SW846, 3510C/8081
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 GRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
Indoor Inhalation GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table H)

TABLE NO. 18 Groundwater Sample Analytical Results: PCBs NWX W. 63rd St. & S. Halsted St. / Chicago, Illinois					Tier 1 Groundwater Remediation Objectives (Tier 1 GROs)		
Sample ID	**MW-1**	**MW-3**	**MW-4**	**MW-5**	**Class I**	**Class II**	**Indoor Inhalation - Residential**
Collection Date	**3/3/14**	**3/3/14**	**3/3/14**	**3/3/14**			
Aroclor 1016	<0.000100	<0.000100	<0.000100	<0.000100	--	--	--
Aroclor 1221	<0.000100	<0.000100	<0.000100	<0.000100	--	--	--
Aroclor 1232	<0.000100	<0.000100	<0.000100	<0.000100	--	--	--
Aroclor 1242	<0.000100	<0.000100	<0.000100	<0.000100	--	--	--
Aroclor 1248	<0.000100	<0.000100	<0.000100	<0.000100	--	--	--
Aroclor 1254	<0.000100	<0.000100	<0.000100	<0.000100	--	--	--
Aroclor 1260	<0.000100	<0.000100	<0.000100	<0.000100	--	--	--
Total PCBs	<0.000700	<0.000700	<0.000700	<0.000700	0.0005	0.0025	--(1)

Notes: Results in mg/L (parts per million)
EPA test method SW846, 3510C/8082
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 GRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
Class I and Class II GROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table E)
(1) Consult with the Illinois EPA to determine appropriate values to use for the physical/chemical and toxicity parameters in calculating Tier 2 or Tier 3 GROs

Appendix A: SRP Reporting Forms, Site Base Map, PINs & Legal Descriptions

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Site Remediation Program (SRP)
Application and Services Agreement (DRM-1) Form

For Illinois EPA Use: Log No. _____
____ $500 Advance Partial Payment Included
____ DRM-2 SRP Form Included
____ DR–3 Request for Assessment Included

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Remedial Project Management Section at the above address.

I. Site Identification:

Site Name: Halsted Parkways County: Cook

Street Address: Northwest Corner of West 63rd Street and South Halsted Street P.O. Box: _____

City: Chicago State: IL Zip Code: 60621 Approx. site size (acres) 10.5

Illinois Inventory ID Number: NA USEPA ID Number NA

Site Base Map Attached: ☑ Yes ☐ No Illinois EPA Permit(s): NA

LUST/IEMA Incident Number(s), if applicable: NA

II. Remediation Applicant ("RA"):

RA's Name: Kimberly Worthington as agent for Title: Deputy Commissioner, 2FM

Company: City of Chicago Dept of Fleet and Facility Management

Street Address: 30 N. LaSalle Street, Suite 300 P.O. Box: _____

City: Chicago State: IL Zip Code: 60602-2575 Phone: 312.744.9139

FEIN or SSN: 36-6005820

I hereby certify that I am authorized to sign this application and services agreement. I certify that the proposed project meets the eligibility criteria set forth in Section 58.1(a)(2) of the Environmental Protection Act (415 ILCS 5/58.1(1)(2)) and regulations promulgated thereunder and that this submittal and all attachments were prepared at my direction. In consideration for the Illinois EPA's agreement to provide (subject to applicable law, available resources, and receipt of the advance partial payment) review and evaluation services for activities carried out pursuant to Title 17 of the Illinois Environmental Protection Act (415 ILCS 5/58-58.12), I agree to:

(1) Conform with the procedures of Title 17 of the Illinois Environmental Protection Act (415 ILCS 5/58 - 58.12) and implementing regulations;

(2) Allow for or otherwise arrange site visits or other site evaluations by the Illinois EPA when requested;

(3) Pay any reasonable costs incurred and documented by the Illinois EPA in providing such services; and

(4) Make an advance partial payment to the Illinois EPA for such anticipated services provided in Section V of this application.

As the RA, I understand that I may terminate this services agreement at any time, by notifying the Illinois EPA in writing that services previously requested under the services agreement are no longer wanted. Within 180 days of receipt of the notice, the Illinois EPA shall provide me with a final invoice for services provided until the date of receipt of such notification.

To the best of my knowledge and belief, this request and all attachments are true, accurate and complete. I hereby certify that I have the authority to enter into this agreement.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent conviction is a Class 3 felony. (415 ILCS 5/44(h)).

Kimberly Worthington as agent for
RA's Signature:

4/25/14
Date:

***In addition to the fees applicable under this Services Agreement, the recipient of a No Further Remediation (NFR) Letter must pay to the Illinois EPA an NFR Assessment in the amount of the lesser of $2500 or an amount equal to the costs incurred by the Illinois EPA under this Agreement (35 IAC 740.615)**

III. Project Objectives:

A. Release Letter Requested.

Please complete one of the subsections by checking applicable boxes and including other information (if necessary, additonal information may be attached to this application form):

☑ Comprehensive No Further Remediation ("NFR") Lertter

☐ Focused NFR Letter
Identify the focused contaminants of concern by checking the applicable box(es):

☐ Volatiles ☐ BTEX ☐ PCBs ☐ Metals ☐ Semivolatiles ☐ PNAs
☐ Pesticides ☐ Other (identify) _____

☐ 4(y) Letter
Identify the focused contaminants of concern by checking the applicable box(es):

☐ Volatiles ☐ BTEX ☐ PCBs ☐ Metals ☐ Semivolatiles ☐ PNAs
☐ Pesticides ☐ Other (identify) _____

Identify the media of concern by checking the applicable box(es):

☐ Soil ☐ Sediments ☐ Other: _____

Identify the actions (e.g. drum removal, spill response, etc.):

B. Identify any support services being sought from the Illinois EPA in addition to the review and evaluation services. If necessary, additional information may be attached to this application form.

☑ No additional support services are being sought
☐ Assistance with community relations
☐ Sample collection and analyses
☐ Other (identify): _____

C. Anticipated Schedule

SRP Document	Projected Date of Receipt by Illinois EPA
Site Investigation Report	May 1, 2014
Remediation Objectives Report	May 1, 2014
Remedial Action Plan	May 1, 2014
Remedial Action Completion Report	Oct 15, 2015

D. Identify the current and post-remedation uses of the remediation site. If necessary, additional information may be attached to this application form.

Current Use:

The Remediation Site is currently undeveloped land.

Post-Remediation Use:

The Remediation Site will be developed with retail/commercial structures and other to-be-determined structures.

IV. Written Permission from the Property Owner (check one of the applicable boxes and provide additional information):

☑ RA is the property owner of the remediation site identified in Section 1 of this application

☐ RA is **not** the property owner of the remediation site identified in Section 1 of this application

Property Owner's Name: _____ Title: _____

Company: _____

Street Address: _____ P.O. Box: _____

City: _____ State: _____ Zip Code: _____ Phone: _____

I hereby certify that the RA has my permission to enroll the site identified in Section 1 of this application into the Illinois EPA Site Remediation Program. I certify that the RA and designated representatives have permission to enter the indicated premises for the pupose of conducting remedial investigations or activities.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent conviction is a Class 3 felony. (415 ILCS 5/44(h)).

_____ _____

Owner's Signature: Date:

For multiple property owners, attach additional sheets containing all the information above along with a signed, dated certification for each.

V. Advance Partial Payment:

The RA shall select one of the following advance partial payment plans:

☑ Plan 1: A $500 advance partial payment is included with this application. Please make the check payable to: Illinois Environmental Protection Agency". Please include "For Deposit in the Hazardous Waste Fund" and the Remedation Applicant's FEIN or SSN on the check; or

☐ Plan 2: Request that the Illinois EPA determine the appropriate partial payment (i.e., approximately one-half of the total anticipated costs of the Illinois EPA, not to exceed $5,000). A completed DRM-3 form ("Request for Assessment of Advance Partial Payment for Anticipated Services") must accompany this application so that the Illinois EPA may determine the appropriate advance partial payment specific to the services requested.

NOTE: Illinois EPA cannot refund payments without a legislative appropriation. Payment under Plan 1 accelerates the review process but increases the risk of forfeiting the payment if the applicant is ineligible. Payment under Plan2 may result in a larger advance partial payment when a final determination is made on the application, but it reduces the risk of forfeiture.

If this application contains plans and reports for review and evaluation by the Illinois EPA, a completed DRM-2 Form must also accompany this submittal.

The illinois EPA is authorized to require this information under Section 415 ILCS 5/58 - 58.12 of the Environmental Protection Act and regulations promulgated thereunder. Disclosure of this information is required as a condition of participation in the Site Remediation Program. Failure to do so may prevent this form from being processed and could result in your application being rejected. This form has been approved by the Forms Management Center. All information submitted as part of this application is available to the public except when specifically designated by the RA to be treated confidentially as a trade secret or secret process in accordance with the Illinois Compiled Statutes, Section 7(a) of the Environmental Protection Act, applicable Rules and Regulations of the Illinois Pollution Control Board and applicable Illinois EPA rules and guidelines.

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Site Remediation Program Form (DRM-2)
(To be Submitted with all Plans and Reports)

You may complete this form online, save a copy, print, sign and mail it to the address above.

I. Site Identification:

Site Name: Halsted Parkways

Street Address: Northwest Corner of West 63rd Street and South Halsted Street P.O. Box:

City: Chicago State: IL Zip Code: 60621 Phone:

Illinois Inventory ID Number: NA IEMA Incident Number: NA

II. Remediation Applicant:

Applicant's Name: Kimberly Worthington as agent for

Company: City of Chicago Dept of Fleet and Facility Management

Street Address: 30 N. LaSalle Street, Suite 300 P.O. Box:

City: Chicago State: IL Zip Code: 60602-2575 Phone: 312.744.9139

Email Address: kimberly.worthington@cityofchicago.org

I hereby request that the Illinois EPA review and evaluate the attached project documents in accordance with the terms and conditions of the Environmental Protection Act (415 ILCS 5), implementing regulations, and the review and evaluation services agreement.

Remediation Applicant's Signature: Kimberly Worthington Date: 4/25/14

III. Contact Person for Remediation Applicant:

Contact's Name: Kimberly Worthington

Company: City of Chicago, Dept of Fleet and Facility Management, Bureau of Env, Health and Safety Mgmt

Street Address: 30 N. LaSalle Street, Suite 300 P.O. Box:

City: Chicago State: IL Zip Code: 60602-2575 Phone: 312.744.9139

Email Address: kimberly.worthington@cityofchicago.org

Contact Person for Consultant:

Contact's Name: Wayne Smith, P.G.

Company: Pioneer Environmental Services, LLC

Street Address: 700 N. Sacramento Blvd, Ste. 101 P.O. Box:

City: Chicago State: IL Zip Code: 60612 Phone: 773.722.9200

Email Address: wsmith@pioneerees.com

IV. Review & Evaluation Licensed Professional Engineer or Geologist ("RELPEG"), if applicable:

RELPEG's Name:

Company:

Street Address: P.O. Box:

City: State: Zip Code: Phone:

Email Address:

V. Project Documents Being Submitted:

Document Title: CSIR/ROR/RAP
Date of Preparation of Plan or Report: 4/29/2014
Prepared by: Natalie Struble
Prepared For: Chicago Neighborhood Initiatives

Type of Document Submitted:

- [x] Site Investigation Report - Comprehensive
- [ ] Site Investigation Report - Focused
- [x] Remediation Objectives Report - Tier 1 or 2
- [ ] Remediation Objectives Report - Tier 3
- [x] Remedial Action Plan
- [ ] Remedial Action Completion Report
- [ ] Sampling Plan
- [ ] Health and Safety Plan
- [ ] Community Relations Plan
- [ ] Risk Assessment
- [ ] Containment Fate & Transport Modeling
- [ ] Other: _____

Document Title: Phase I ESA
Date of Preparation of Plan or Report: 10/9/2008
Prepared by: EPS
Prepared For: _____

Type of Document Submitted:

- [ ] Site Investigation Report - Comprehensive
- [ ] Site Investigation Report - Focused
- [ ] Remediation Objectives Report - Tier 1 or 2
- [ ] Remediation Objectives Report - Tier 3
- [ ] Remedial Action Plan
- [ ] Remedial Action Completion Report
- [ ] Sampling Plan
- [ ] Health and Safety Plan
- [ ] Community Relations Plan
- [ ] Risk Assessment
- [ ] Containment Fate & Transport Modeling
- [x] Other: Phase I ESA

Document Title: _____
Date of Preparation of Plan or Report: _____
Prepared by: _____
Prepared For: _____

Type of Document Submitted:

- [ ] Site Investigation Report - Comprehensive
- [ ] Site Investigation Report - Focused
- [ ] Remediation Objectives Report - Tier 1 or 2
- [ ] Remediation Objectives Report - Tier 3
- [ ] Remedial Action Plan
- [ ] Remedial Action Completion Report
- [ ] Sampling Plan
- [ ] Health and Safety Plan
- [ ] Community Relations Plan
- [ ] Risk Assessment
- [ ] Containment Fate & Transport Modeling
- [ ] Other: _____

VI. Professional Engineer's or Geologist's Seal or Stamp:

I attest that all site investigations or remedial activities that are subject of this plan(s) or report(s) were performed under my direction, and this document and all attachments were prepared under my direction or reviewed by me, and to the best of my knowledge and belief, the work described in the plan and report has been designed or completed in accordance with the Illinois Environmental Protection Act (415 ILCS 5), 35 Ill. Adm. Code 740, and generally accepted engineering practices or principles of professional geology, and the information presented is accurate and complete.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 Felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Engineer's or Geologist's Name: Jeffrey T. McClelland, P.E.

Company: Pioneer Environmental Services, LLC

Registration Number: 062-054039 Phone: 773.722.9200

License Expiration Date: 11/2015

Signature: _____ Date: 4/29/14

Professional Engineer's or Geologist's Seal or Stamp:

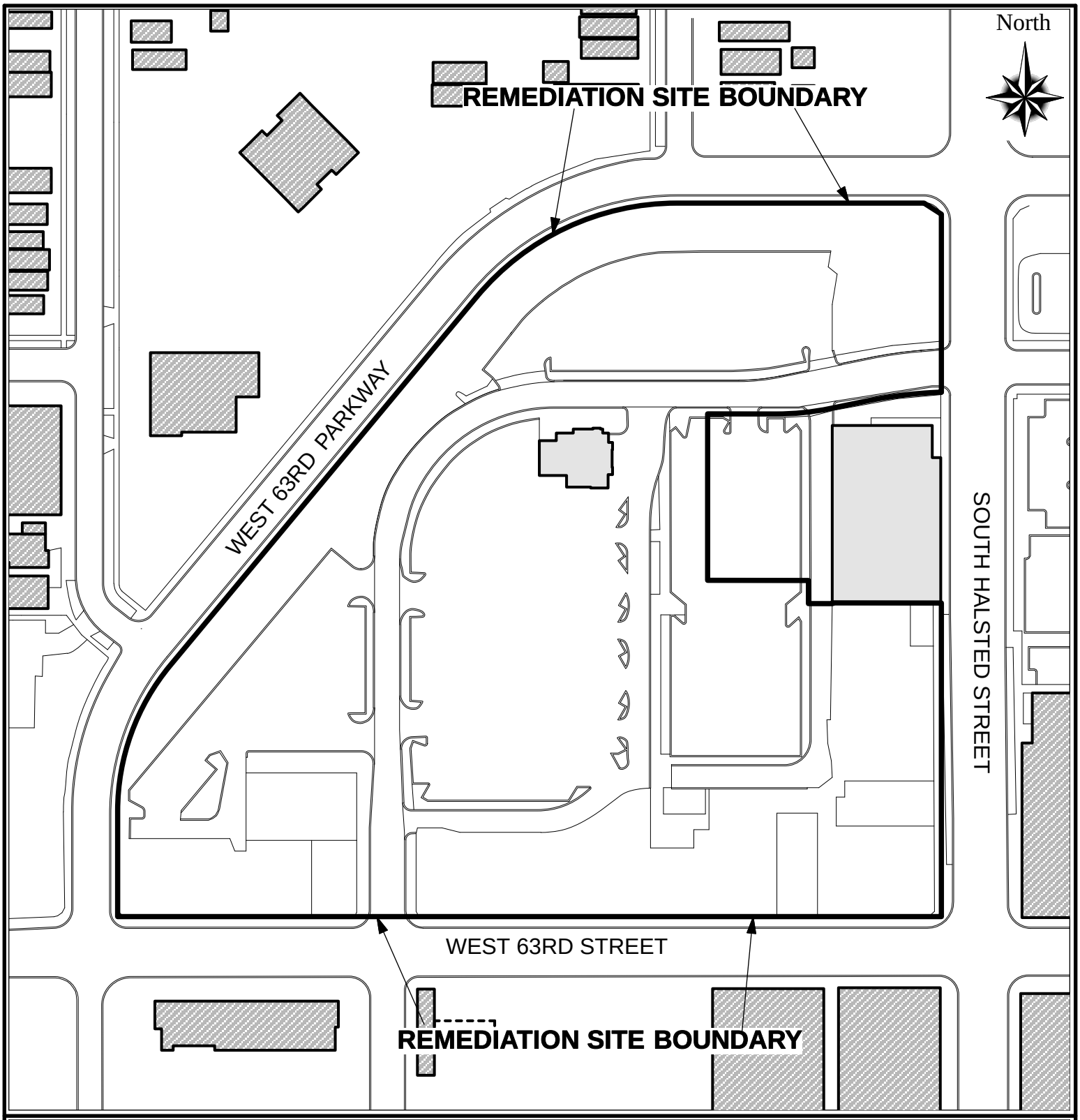


Note: The authority of a Licensed Professional Geologist to certify documents submitted to the Illinois Environmental Protection Agency for review and evaluation pursuant to Title XVII of the Environmental Protection Act is limited to Site Investigation Reports (415 ILCS 58.7(f), as amended by P. A. 92-0735, effective July 25, 2002. A Licensed Professional Geologist cannot certify Remediation Objectives Reports, Remedial Action Plans or Remedial Action Completion Reports.

All information submitted is available to the public except when specifically designated by the Remediation Applicant to be treated confidentially as a trade secret or secret process in accordance with the Illinois Compiled Statutes, Section 7(a) of the Environmental Protection Act, applicable Rules and Regulations of the Illinois Pollution Control Board and applicable Illinois EPA rules and guidelines. The Illinois EPA is authorized to require this information under Sections 415 ILCS 5/58 - 58.12 of the Environmental Protection Act and regulations proumulgated thereunder. Disclosure of this information is required as a condition of participation in the Site Remediation Program. Failure to do so may prevent this form from being processed and could result in your plan(s) or report(s) being rejected. This form has been approved by the Forms Management Center.

SITE BASE MAP

LPC# NOT YET ASSIGNED - COOK COUNTY
CHICAGO / NWX WEST 63RD STREET & SOUTH HALSTED STREET
SITE REMEDIATION / TECHNICAL REPORTS



Legend:

Remediation Site Boundary

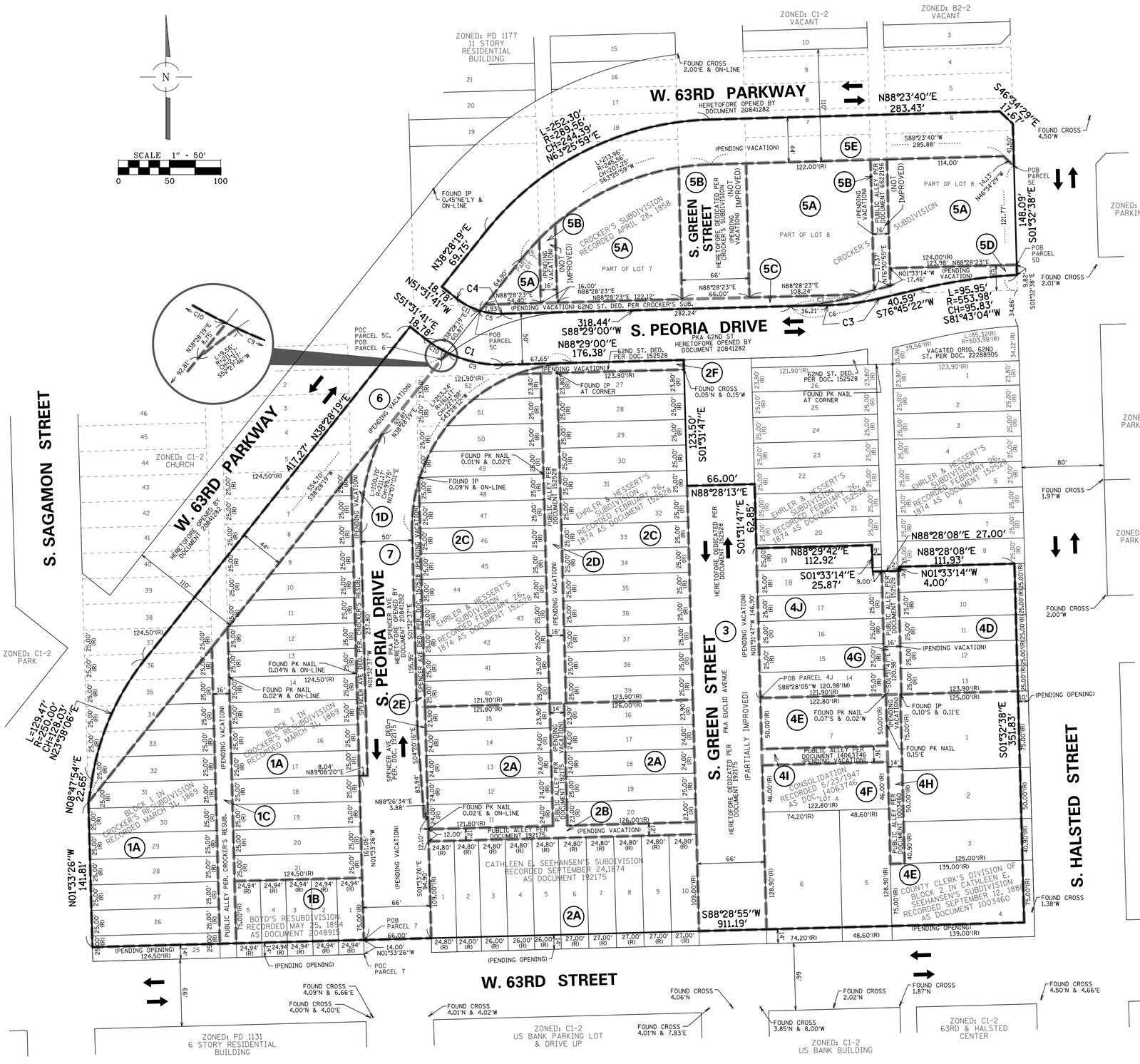
Scale: 1" = 150'

0' 150'

Address:

NWX WEST 63RD STREET & SOUTH HALSTED STREET

EXHIBIT "A"



PLAT OF SUBDIVISION

HALSTED PARKWAY SUBDIVISION

BEING A SUBDIVISION OF PART OF THE SOUTHEAST QUARTER OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS

TAX P.I.N.s:

20-17-422-036-0000	20-17-422-037-0000	20-17-422-038-0000
20-17-422-043-0000	20-17-423-016-0000	20-17-423-017-0000
20-17-423-019-0000	20-17-423-034-0000	20-17-423-035-0000
20-17-423-036-0000	20-17-423-037-0000	20-17-423-038-0000
20-17-423-039-0000	20-17-423-040-0000	20-17-429-010-0000
20-17-429-011-0000	20-17-429-012-0000	20-17-429-013-0000
20-17-429-014-0000	20-17-429-015-0000	20-17-429-016-0000
20-17-429-017-0000	20-17-429-018-0000	20-17-429-019-0000
20-17-429-020-0000	20-17-429-023-0000	20-17-429-024-0000
20-17-429-025-0000	20-17-429-026-0000	20-17-429-027-0000
20-17-429-028-0000	20-17-429-029-0000	20-17-429-030-0000
20-17-429-031-0000	20-17-429-032-0000	20-17-429-034-0000
20-17-429-035-0000	20-17-429-036-0000	20-17-429-045-0000
20-17-429-046-0000	20-17-429-049-0000	20-17-429-050-0000
20-17-429-051-0000	20-17-430-001-0000	20-17-430-002-0000
20-17-430-003-0000	20-17-430-004-0000	20-17-430-005-0000
20-17-430-006-0000	20-17-430-007-0000	20-17-430-008-0000
20-17-430-009-0000	20-17-430-010-0000	20-17-430-011-0000
20-17-430-012-0000	20-17-430-013-0000	20-17-430-014-0000
20-17-430-015-0000	20-17-430-016-0000	20-17-430-017-0000
20-17-430-018-0000	20-17-430-019-0000	20-17-430-020-0000
20-17-430-021-0000	20-17-430-022-0000	20-17-430-023-0000
20-17-430-024-0000	20-17-430-025-0000	20-17-430-026-0000
20-17-430-027-0000	20-17-430-028-0000	20-17-430-029-0000
20-17-430-030-0000	20-17-430-031-0000	20-17-430-032-0000
20-17-430-033-0000	20-17-430-034-0000	20-17-430-035-0000
20-17-431-003-0000	20-17-431-004-0000	20-17-431-005-0000
20-17-431-006-0000	20-17-431-007-0000	20-17-431-008-0000
20-17-431-009-0000	20-17-431-010-0000	20-17-431-011-0000
20-17-431-015-0000	20-17-431-016-0000	20-17-431-017-0000
20-17-431-023-0000	20-17-431-024-0000	20-17-431-025-0000
20-17-431-026-0000	20-17-431-027-0000	20-17-431-028-0000
20-17-431-030-0000	20-17-431-031-0000	20-17-431-032-0000
20-17-431-033-0000		

SURVEYOR'S NOTES:

1. ALL DIMENSIONS SHOWN HEREON ARE MEASURED UNLESS NOTED.

2. BASIS OF BEARINGS: TRUE NORTH BASED ON GEODETIC OBSERVATION IL EAST ZONE

3. PREPARED FOR:
CB/DACCORD, INC.
309 WEST WASHINGTON, SUITE 405
CHICAGO, ILLINOIS 60606

4. NO DIMENSIONS SHOULD BE ASSUMED BY SCALE MEASUREMENTS UPON THE PLAT.

5. ZONING INFORMATION SHOWN HEREON BASED ON CHICAGO DEPARTMENT OF ZONING ON-LINE ZONING MAP ACCESSED FEBRUARY 10, 2014.

6. SITE CURRENTLY ZONED: BPD-1227.

7. LAST DAY OF FIELD WORK: FEBRUARY 3, 2013.

LEGEND

———	BOUNDARY LINE
———	EXISTING RIGHT-OF-WAY OR LOT LINE
- - - -	PREVIOUS LOT LINE
▬ ▬ ▬	PARCEL LINE
○	IRON PIPE (IP)
×	CUT CROSS
•	PK / MAG NAIL
XX.XX'(R)	RECORD DIMENSION
➡	TRAFFIC FLOW DIRECTION
PKA	PREVIOUSLY KNOWN AS
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT

CURVE NO.	LENGTH	RADIUS	CHORD	CHORD BEARING
1	82.36'	118.00'	80.69'	S71°31'21"E
3	51.17'	250.00'	51.08'	S82°37'11"W
4	47.46'	68.00'	46.50'	N71°31'21"W
5	21.62'	68.00'	21.53'	N82°24'33"W
6	82.43'	249.51'	82.06'	S79°01'08"W
7	69.26'	249.51'	69.04'	S80°31'53"W
8	8.18'	300.00'	8.18'	N80°29'17"E
9	54.57'	118.00'	54.08'	S78°16'10"E
10	25.42'	118.00'	25.37'	S57°41'59"E
11	25.84'	68.00'	55.37'	N62°24'54"W

CDOT#XX-XX-XX-XXXX

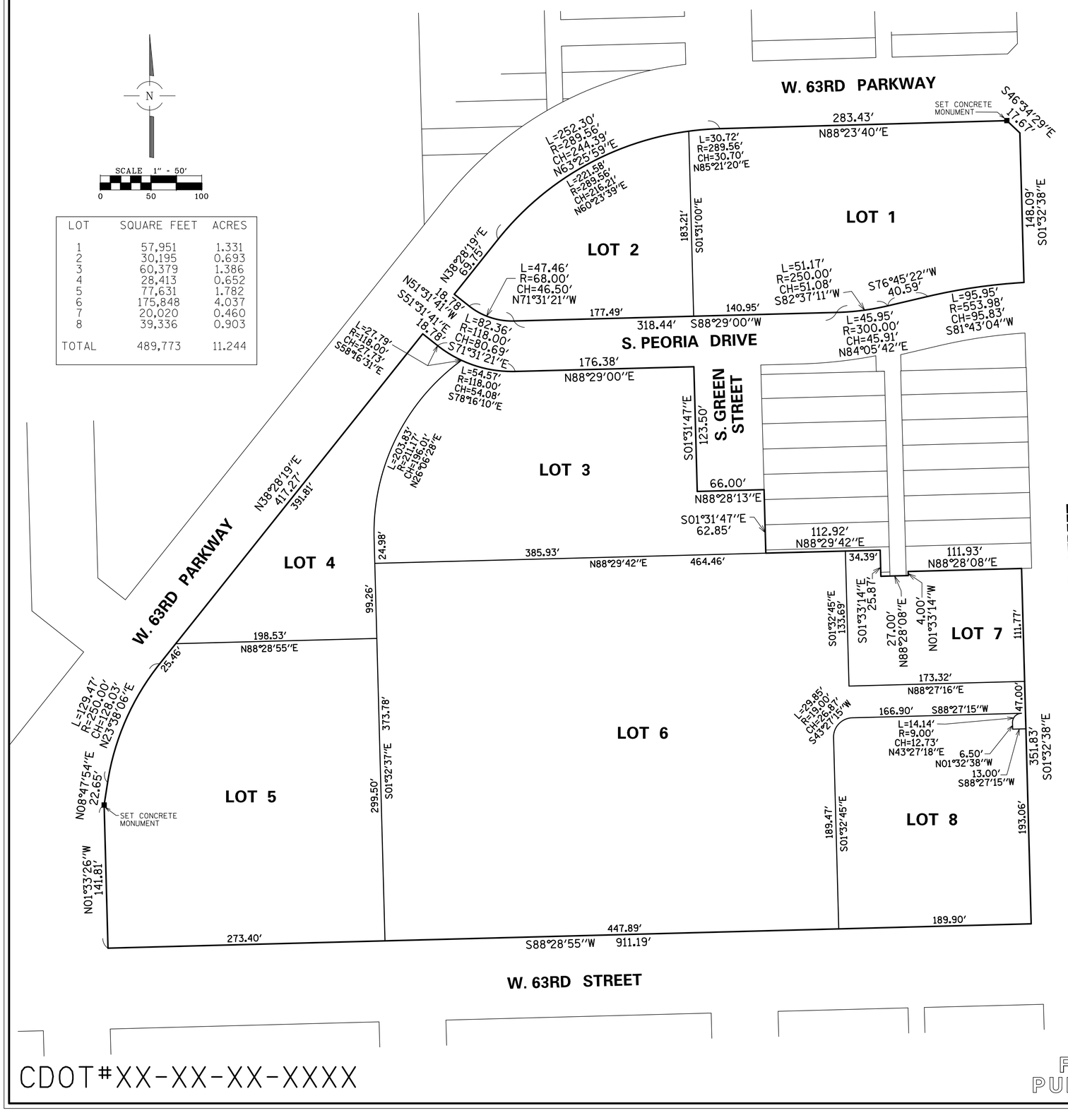
FOR REVIEW PURPOSES ONLY

REVISIONS:
08/07/2013
08/30/2013
02/18/2014

SPACECO INC.
CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS
9575 W. Higgins Road, Suite 700.
Rosemont, Illinois 60018
Phone: (847) 696-4060 Fax: (847) 696-4065

DATE: 06/06/2013
JOB NO: 7390
FILENAME: 7390SUB-01
SHEET 1 OF 4

EXHIBIT "A"



LOT	SQUARE FEET	ACRES
1	57,951	1.331
2	30,195	0.693
3	60,379	1.386
4	28,413	0.652
5	77,631	1.782
6	175,848	4.037
7	20,020	0.460
8	39,336	0.903
TOTAL	489,773	11.244

PLAT OF SUBDIVISION
HALSTED PARKWAY SUBDIVISION

BEING A SUBDIVISION OF PART OF THE SOUTHEAST QUARTER OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS

OWNER'S CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF COOK)

THIS IS TO CERTIFY THAT THE CITY OF CHICAGO IS OWNER OF PART OF THE PROPERTY DESCRIBED HEREON AND THAT IT HAS CAUSED THE SAID PROPERTY TO BE SURVEYED AND SUBDIVIDED AS SHOWN HEREON FOR THE USES AND PURPOSES THEREIN SET FORTH, AND DOES HEREBY ACKNOWLEDGE AND ADOPT THE SAME UNDER THE TITLE THEREON INDICATED.

THIS IS TO ALSO CERTIFY THAT AS OWNER OF THE PROPERTY AS LEGALLY DESCRIBED ON THIS PLAT, HAVE DETERMINED TO THE BEST OF OUR KNOWLEDGE THE SCHOOL DISTRICT IN WHICH EACH OF THE FOLLOWING LOTS LIE.

SCHOOL DISTRICTS

ELEMENTARY SCHOOL DISTRICT NO. 299
HIGH SCHOOL DISTRICT NO. 299
JUNIOR COLLEGE DISTRICT NO. 508

DATED THIS ____ DAY OF _____ . A.D. 20_____ .

SIGNED: _____

_____
PRINTED NAME AND TITLE

NOTARY PUBLIC CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF COOK)

I, _____, A NOTARY PUBLIC IN AND FOR THE COUNTY
AND STATE AFORESAID, DO HEREBY CERTIFY THAT
_____ TITLE
OF THE CITY OF CHICAGO WHO IS PERSONALLY KNOWN TO ME TO BE THE SAME WHOSE NAME IS SUBSCRIBED TO THE FOREGOING CERTIFICATE, APPEARED BEFORE ME THIS DAY IN PERSON AND ACKNOWLEDGED THAT HE/SHE DID SIGN AND DELIVER THIS INSTRUMENT AS A FREE AND VOLUNTARY ACT FOR THE USES AND PURPOSES HEREIN SET FORTH.

GIVEN UNDER MY HAND AND NOTARIAL SEAL

THIS ____ DAY OF _____ . A.D. 20_____ .

_____
NOTARY PUBLIC

SURFACE WATER DRAINAGE CERTIFICATE

TO THE BEST OF OUR KNOWLEDGE AND BELIEF THE DRAINAGE OF SURFACE WATERS WILL NOT BE CHANGED BY THE CONSTRUCTION OF SUCH SUBDIVISION OR ANY PART THEREOF, OR, THAT IF SUCH SURFACE WATER DRAINAGE WILL BE CHANGED, ADEQUATE PROVISION HAS BEEN MADE FOR COLLECTION AND DIVERSION OF SUCH SURFACE WATERS INTO PUBLIC AREAS OR DRAINS WHICH THE SUBDIVIDER HAS A RIGHT TO USE, AND THAT SUCH SURFACE WATERS WILL NOT BE DEPOSITED ON THE PROPERTY OF ADJOINING LAND OWNERS IN SUCH CONCENTRATIONS AS MAY CAUSE DAMAGE TO THE ADJOINING PROPERTY BECAUSE OF THE CONSTRUCTION OF THE SUBDIVISION.

DATED THIS ____ DAY OF _____ . A.D. 20_____ .

_____
OWNER(S) OR DULY AUTHORIZED ATTORNEY

_____
OWNER(S) OR DULY AUTHORIZED ATTORNEY

_____
REGISTERED PROFESSIONAL ENGINEER, LICENSE NO.

LICENSE EXPIRES:

AREA FOR COUNTY CLERK'S STAMP

AREA FOR DEPARTMENT OF REVENUE, CHICAGO, STAMP

AREA FOR CITY OF CHICAGO MAPS STAMP

STATE OF ILLINOIS)
) SS
COUNTY OF COOK)

WE DECLARE THAT THE ABOVE DESCRIBED PROPERTY WAS SURVEYED AND SUBDIVIDED BY SPACECO, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM, NUMBER 184-001157, AND THAT THE PLAT HEREON DRAWN IS A CORRECT REPRESENTATION OF SAID SURVEY. ALL DISTANCES ARE SHOWN IN FEET AND DECIMALS THEREOF.

SAID PROPERTY CONTAINS 548,231 SQUARE FEET OR 12.586 ACRES, MORE OR LESS.

WE FURTHER DECLARE THAT THE LAND IS WITHIN THE CITY OF CHICAGO WHICH HAS ADOPTED A CITY COMPREHENSIVE PLAN AND MAP AND IS EXERCISING THE SPECIAL POWERS AUTHORIZED BY DIVISION 12 OF ARTICLE 11 OF THE ILLINOIS MUNICIPAL CODE AS AMENDED.

WE FURTHER DECLARE, BASED UPON A REVIEW OF THE FLOOD INSURANCE RATE MAP (F.I.R.M.) COMMUNITY PANEL/MAP NUMBER 17031C1ND2G, AN INDEX, DATED AUGUST 19, 2008, CONTAINS NOTATION "PANEL NOT PRINTED - NO SPECIAL FLOOD HAZARD AREAS", BUT BASED ON THIS INDEX THE SURVEYED PROPERTY WOULD BE INCLUDED IN MAP NUMBER 17031C0520J, IF PRINTED..

WE FURTHER DECLARE THAT STEEL RE-ENFORCING RODS (UNLESS OTHERWISE NOTED) WILL BE SET AT ALL LOT CORNERS.

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY, AS APPLICABLE TO PLATS OF SUBDIVISION.

GIVEN UNDER OUR HAND AND SEAL THIS ____ DAY OF _____ . 20 _____ IN ROSEMONT, ILLINOIS.

_____
REBECCA Y. POPECK, I.P.L.S. No. 035-3642
LICENSE EXPIRES: 11-30-2014

(VALID ONLY IF EMBOSSED SEAL AFFIXED)

REVISIONS:
08/07/2013
08/30/2013
02/10/2014

SPACECO INC.
CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS
9575 W. Higgins Road, Suite 700,
Rosemont, Illinois 60018
Phone: (847) 696-4060 Fax: (847) 696-4065

DATE: 06/06/2013
JOB NO: 7390
FILENAME: 7390SUB-01
SHEET 2 OF 4

CDOT#XX-XX-XX-XXXX

FOR REVIEW PURPOSES ONLY

EXHIBIT "A"

PLAT OF SUBDIVISION

HALSTED PARKWAY SUBDIVISION

BEING A SUBDIVISION OF PART OF THE SOUTHEAST QUARTER OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS

PARCEL 1

THAT PART OF THE FOLLOWING FOUR PARCELS OF LAND TAKEN AS ONE TRACT OF LAND, EXCEPT THAT PART OF SAID TRACT LYING NORTHWESTERLY OF THE SOUTHEASTERLY LINE OF WEST 63RD PARKWAY, OPENED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282:

PARCEL 1A:
LOTS 6 THROUGH 21, BOTH INCLUSIVE AND LOTS 25 THROUGH 36 BOTH INCLUSIVE IN BLOCK 1 IN CROCKER'S RESUBDIVISION OF THE SOUTH 1/2 OF THE WEST 1/2 OF THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN IN COOK COUNTY, ILLINOIS, EXCEPTING THEREFROM THAT PART OPENED AS 63RD STREET BY ORDINANCE RECORDED _____ AS DOCUMENT NUMBER _____; AND,

PARCEL 1B:
LOTS 1 THROUGH 5, BOTH INCLUSIVE IN THE BOYD'S RESUBDIVISION OF LOTS 22, 23, AND 24 OF BLOCK 1 IN CROCKER'S RESUBDIVISION OF RESUBDIVISION OF THE SOUTH 1/2 OF THE WEST 1/2 OF THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN IN COOK COUNTY, ILLINOIS, EXCEPTING THEREFROM THAT PART OPENED AS 63RD STREET BY ORDINANCE RECORDED _____ AS DOCUMENT NUMBER _____; AND,

PARCEL 1C:

ALL THAT PART OF THE VACATED 16 FOOT NORTH TO SOUTH ALLEY IN SAID BLOCK 1 IN CROCKER'S RESUBDIVISION OF THE SOUTH 1/2 OF THE WEST 1/ 2 OF THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, VACATED BY ORDINANCE RECORDED _____ AS DOCUMENT NUMBER _____, IN COOK COUNTY, ILLINOIS; AND,

PARCEL 1D:

THAT PART OF VACATED ORIGINAL PEORIA STREET LYING EAST OF LOTS 5 THROUGH 17, BOTH INCLUSIVE IN BLOCK 1 IN CROCKER'S RESUBDIVISION AFORESAID AND WEST OF AND ADJOINING THE WEST LINE OF PEORIA DRIVE AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282, ALL IN THE SOUTHEAST 1/ 4 OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, VACATED BY ORDINANCE RECORDED _____ AS DOCUMENT NUMBER _____, IN COOK COUNTY, ILLINOIS.

PARCEL 2

PARCEL 2A:
LOTS 1 THROUGH 20, BOTH INCLUSIVE, IN CATHLEEN E. SEEHANSEN'S SUBDIVISION OF THE SOUTH 4 1/6 ACRES OF THE SOUTHEAST 1/4 OF SOUTHEAST 1/4 OF SECTIONS 17 TOWNSHIP 38 NORTH RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN IN COOK COUNTY, ILLINOIS, EXCEPTING THEREFROM THAT PART OPENED AS 63RD STREET BY ORDINANCE RECORDED _____ AS DOCUMENT NUMBER _____.

PARCEL 2B:
ALL THAT PART OF THE VACATED EAST TO WEST ALLEY NORTH OF LOTS 1 THROUGH 10 AND THE NORTH TO SOUTH ALLEY LYING BETWEEN LOTS 11 THROUGH 15 AND LOTS 16 THROUGH 20 ALL IN IN CATHLEEN E. SEEHANSEN'S SUBDIVISION OF THE SOUTH 4 1/6 ACRES OF THE SOUTHEAST 1/4 OF SOUTHEAST 1/4 OF SECTIONS 17 TOWNSHIP 38 NORTH RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, VACATED BY ORDINANCE RECORDED _____ AS DOCUMENT NUMBER _____, IN COOK COUNTY, ILLINOIS.

PARCEL 2C:
LOTS 27 THROUGH 52, BOTH INCLUSIVE, IN EHRLER & HESSERT'S SUBDIVISION OF THE NORTH 5-1/3 ACRES OF THE SOUTH 9-1/2 ACRES OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, (EXCEPTING THEREFROM ALL THAT PART OF LOT 52 LYING NORTHWESTERLY OF THE SOUTHEASTERLY LINE OF WEST 63RD PARKWAY, OPENED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282) AND (EXCEPTING THAT PART OF LOTS 48 THROUGH 52 LYING NORTHWESTERLY OF THE SOUTHEASTERLY LINE OF PEORIA DRIVE AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282), IN COOK COUNTY, ILLINOIS.

PARCEL 2D:
ALL THAT PART OF THE VACATED NORTH TO SOUTH ALLEY BETWEEN LOTS 27 THROUGH 39, BOTH INCLUSIVE AND LOTS 40 THROUGH 52, BOTH INCLUSIVE IN EHRLER & HESSERT'S SUBDIVISION OF THE NORTH 5-1/3 ACRES OF THE SOUTH 9-1/2 ACRES OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, VACATED BY ORDINANCE RECORDED _____ AS DOCUMENT NUMBER _____, IN COOK COUNTY, ILLINOIS.

PARCEL 2E:
THAT PART OF VACATED ORIGINAL PEORIA STREET LYING WEST OF AND ADJOINING THE WEST LINES OF LOTS 40 THROUGH 48, BOTH INCLUSIVE, IN EHRLER & HESSERT'S SUBDIVISION AFORESAID AND WEST OF AND ADJOINING THE WEST LINES OF LOTS 11 THROUGH 15, BOTH INCLUSIVE IN CATHLEEN E. SEEHANSEN'S SUBDIVISION, AFORESAID AND LYING EAST OF AND ADJOINING THE EAST LINE OF PEORIA DRIVE AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282, ALL IN THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, VACATED BY ORDINANCE RECORDED _____ AS DOCUMENT NUMBER _____, IN COOK COUNTY, ILLINOIS .

PARCEL 2F:
THAT PART OF VACATED ORIGINAL 62ND STREET LYING NORTH OF AND ADJOINING THE NORTH LINES OF LOTS 27 AND LOT 52 AND NORTH OF AND ADJOINING THE NORTH LINE OF LOT 27 EXTENDED WEST TO THE NORTHEAST CORNER OF LOT 52, IN EHRLER & HESSERT'S SUBDIVISION AFORESAID AND LYING SOUTH AND ADJOINING THE SOUTH LINE OF PEORIA DRIVE AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282, ALL IN THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, VACATED BY ORDINANCE RECORDED _____ AS DOCUMENT NUMBER _____, IN COOK COUNTY, ILLINOIS.

PARCEL 3

ALL OF VACATED 66 FOOT WIDE GREEN STREET LYING SOUTH OF AND ADJOINING THE SOUTH LINE OF PEORIA DRIVE AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282 AND NORTH OF AND ADJOINING A LINE 14 FEET NORTH OF AND PARALLEL WITH THE NORTH LINE OF 63RD STREET, ALL IN THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, VACATED BY ORDINANCE RECORDED _____ AS DOCUMENT NUMBER _____, IN COOK COUNTY, ILLINOIS.

PARCEL 4

PARCEL 4D:
LOTS 9 THROUGH 13, BOTH INCLUSIVE, EXCEPT THE WEST 2 FEET OF THE NORTH 4 FEET OF SAID LOT 9, ALL IN EHRLER & HESSERT'S SUBDIVISION OF THE NORTH 5-1/3 ACRES OF THE SOUTH 9-1/2 ACRES OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.

PARCEL 4E:
LOTS 1 THROUGH 6, BOTH INCLUSIVE AND LOT 7 (EXCEPT THE SOUTH 50 FEET THEREOF) IN COUNTY CLERK'S DIVISION OF BLOCK 2 IN CATHLEEN E. SEEHANSEN'S SUBDIVISION OF THE SOUTH 4 1/6 ACRES OF SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 17 TOWNSHIP 38 NORTH RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN IN COOK COUNTY, ILLINOIS AND FURTHER EXCEPTING THEREFROM THAT PART OPENED AS 63RD STREET BY ORDINANCE RECORDED _____ AS DOCUMENT NUMBER _____.

PARCEL 4F:
LOT "A", IN THE CONSOLIDATION PLAT OF SUBDIVISION OF THE SOUTH 50 FEET OF LOT 7 TOGETHER WITH A 12 FOOT STRIP OF LAND DESIGNATED AS ALLEY RESERVED BY DEED AND LYING SOUTH OF AND ADJOINING SAID LOT 7 (EXCEPT THE NORTH 16 FEET OF THE SOUTH 50 FEET OF SOUTH LOT 7 DEDICATED AS PUBLIC ALLEY) IN COUNTY CLERK'S DIVISION OF BLOCK 2 IN THE SUBDIVISION OF THE SOUTH 4 1/6 ACRES OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE CONSOLIDATION PLAT RECORDED MAY 23, 1947 AS DOCUMENT 14063746, IN COOK COUNTY. ILLINOIS.

PARCEL 4G:
ALL THAT PART OF THE VACATED NORTH TO SOUTH 16 FOOT WIDE ALLEY LYING BETWEEN THE LOTS 9 THROUGH 13, BOTH INCLUSIVE AND LOTS 14 THROUGH 18, BOTH INCLUSIVE IN EHRLER AND HESSERT'S SUBDIVISION AFORESAID IN THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, VACATED BY ORDINANCE RECORDED _____ AS DOCUMENT NUMBER _____, IN COOK COUNTY, ILLINOIS.

PARCEL 4H:
ALL THAT PART OF THE VACATED NORTH TO SOUTH 14 FOOT WIDE ALLEY LYING WEST OF LOTS 1 THROUGH 4, BOTH INCLUSIVE AND EAST OF LOTS 5 AND 7 IN COUNTY CLERK 'S DIVISION OF BLOCK 2 IN CATHLEEN E. SEEHANSEN'S SUBDIVISION AFORESAID AND EAST OF LOT A IN CONSOLIDATION PLAT AFORESAID IN THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, VACATED BY ORDINANCE RECORDED _____ AS DOCUMENT NUMBER _____, IN COOK COUNTY, ILLINOIS.

PARCEL 4I:
ALL THAT PART OF THE VACATED NORTH 16 FEET OF THE SOUTH 50 FEET OF SOUTH LOT 7 IN COUNTY CLERK'S DIVISION OF BLOCK 2 IN CATHLEEN E. SEEHANSEN'S SUBDIVISION AFORESAID DEDICATED AS AN EAST TO WEST PUBLIC ALLEY CONSOLIDATION PLAT AFORESAID IN THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN IN COOK COUNTY, VACATED BY ORDINANCE RECORDED _____ AS DOCUMENT NUMBER _____, ILLINOIS.

PARCEL 4J:
THAT PART OF LOTS 14 THROUGH 19, BOTH INCLUSIVE IN EHRLER & HESSERT'S SUBDIVISION OF THE NORTH 5-1/3 ACRES OF THE SOUTH 9-1/2 ACRES OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWEST CORNER OF SAID LOT 14; THENCE NORTH 01 DEGREES 31 MINUTES 47 SECONDS WEST, ALONG THE WEST LINE OF SAID LOTS, 146.90 FEET; THENCE NORTH 89 DEGREES 29 MINUTES 42 SECONDS EAST, 112.92 FEET TO A POINT ON A LINE 9.00 FEET WEST OF AND PARALLEL WITH THE EAST LINE OF SAID LOTS 18 AND 19; THENCE SOUTH 01 DEGREES 33 MINUTES 14 SECONDS EAST, 25.87 FEET TO THE WESTERLY EXTENSION OF THE NORTH LINE OF A VACATED NORTH TO SOUTH 16 FOOT WIDE ALLEY LYING BETWEEN THE LOTS 9 THROUGH 13 IN SAID EHRLER & HESSERT'S SUBDIVISION; THENCE NORTH 88 DEGREES 28 MINUTES 08 SECONDS EAST, 9.00 FEET TO A POINT ON THE EAST LINE OF LOTS 14 THROUGH 19 IN SAID EHRLER & HESSERT'S SUBDIVISION, ALSO BEING THE WEST LINE OF A NORTH-SOUTH 16-FOOT WIDE PUBLIC ALLEY; THENCE SOUTH 01 DEGREES 31 MINUTES 47 SECONDS EAST, ALONG SAID LAST DESCRIBED LINE, 120.98 FEET TO THE SOUTHWEST CORNER OF SAID LOT 14; THENCE SOUTH 88 DEGREES 28 MINUTES 05 SECONDS WEST, ALONG THE SOUTH LINE OF SAID LOT 14, A DISTANCE OF 121.98 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.

CDOT#XX-XX-XX-XXXX

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REVISIONS:
08/07/2013
08/30/2013
02/18/2014

SPACECO INC.
CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS
9575 W. Higgins Road, Suite 700,
Rosemont, Illinois 60018
Phone: (847) 696-4060 Fax: (847) 696-4065

DATE: 06/06/2013
JOB NO: 7390
FILENAME: 7390SUB-01

EXHIBIT "A"

PLAT OF SUBDIVISION

HALSTED PARKWAY SUBDIVISION

BEING A SUBDIVISION OF PART OF THE SOUTHEAST QUARTER OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS

PARCEL 5

PARCEL 5A:
THAT PART OF LOTS 7 AND 8 IN CROCKER'S SUBDIVISION OF THE EAST PART OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 17 TOWNSHIP 38 NORTH RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN LYING SOUTH OF THE SOUTH LINE OF 63RD PARKWAY AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282, AND LYING NORTH OF THE NORTH LINE OF PEORIA DRIVE AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282, IN COOK COUNTY, ILLINOIS.

PARCEL 5B:
THAT PART OF VACATED GREEN STREET BETWEEN AND/ OR PART OF SAID LOTS 7 AND 8 AND THAT PART OF THE VACATED 16 FOOT NORTH TO SOUTH ALLEY WITHIN LOTS 7 AND 8, IN CROCKER 'S SUBDIVISION OF THE EAST PART OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 17 TOWNSHIP 38 NORTH RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN LYING SOUTH OF THE SOUTH LINE OF 63RD PARKWAY AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282, AND LYING NORTH OF THE NORTH LINE OF PEORIA DRIVE AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282, ALL HAVING BEEN VACATED BY ORDINANCE RECORDED _____ AS DOCUMENT NUMBER _____,IN COOK COUNTY, ILLINOIS.

PARCEL 5C:
THAT PART OF VACATED 62ND STREET LYING SOUTH OF THE SOUTH LINE OF LOT 7 IN CROCKER'S SUBDIVISION AFORESAID AND NORTH OF THE NORTH LINE OF PEORIA DRIVE AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282, IN THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, VACATED BY ORDINANCE RECORDED _____ AS DOCUMENT NUMBER _____, MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT INTERSECTION OF THE NORTH LINE OF SAID S. PEORIA DRIVE AND THE SOUTH LINE OF 63RD PARKWAY AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282; THENCE NORTH 38 DEGREES 28 MINUTES 19 SECONDS EAST, ALONG THE SOUTH LINE OF SAID 63RD PARKWAY, 60.87 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING NORTH 38 DEGREES 28 MINUTES 19 SECONDS EAST, ALONG SAID SOUTH LINE, 7.93 FEET TO A POINT ON THE NORTH LINE OF 62ND STREET, SAID POINT ALSO BEING ON THE SOUTH LINE OF SAID LOT 7; THENCE NORTH 88 DEGREES 28 MINUTES 23 SECONDS EAST, ALONG SAID LAST DESCRIBED LINE, 54.40 FEET TO A POINT ON THE WEST LINE OF THE 16 FOOT NORTH TO SOUTH ALLEY WITHIN SAID LOT 7; THENCE NORTH 88 DEGREES 28 MINUTES 23 SECONDS EAST, 16.00 FEET TO A POINT ON THE EAST LINE OF THE 16 FOOT NORTH TO SOUTH ALLEY WITHIN SAID LOT 7, SAID POINT ALSO BEING ON THE SOUTH LINE OF SAID LOT 7; THENCE NORTH 88 DEGREES 28 MINUTES 23 SECONDS EAST, ALONG THE SOUTH LINE OF SAID LOT 7, A DISTANCE OF 122.12 FEET TO A POINT ON THE WEST LINE OF GREEN STREET; THENCE NORTH 88 DEGREES 28 MINUTES 23 SECONDS EAST, 66.00 FEET TO A POINT ON THE EAST LINE OF GREEN STREET, SAID POINT ALSO BEING ON THE SOUTH LINE OF SAID LOT 8; THENCE NORTH 88 DEGREES 28 MINUTES 23 SECONDS EAST, ALONG SAID SOUTH LINE, 108.24 FEET TO ON THE NORTHERLY LINE OF SAID S. PEORIA DRIVE; THENCE WESTERLY 69.26 FEET, ALONG SAID NORTHERLY LINE BEING THE ARC OF A NON-TANGENT CIRCLE TO THE RIGHT, HAVING A RADIUS OF 249.51 FEET AND WHOSE CHORD BEARS SOUTH 80 DEGREES 31 MINUTES 53 SECONDS WEST, 69.04 FEET TO A POINT OF TANGENCY; THENCE SOUTH 88 DEGREES 29 MINUTES 00 SECONDS WEST, ALONG A NORTHERLY LINE OF SAID S. PEORIA DRIVE AND ITS WESTERLY EXTENSION, 282.24 FEET TO A POINT OF CURVATURE; THENCE WESTERLY 21.62 FEET, ALONG THE ARC OF A TANGENT CIRCLE TO THE RIGHT, HAVING A RADIUS OF 68.00 FEET AND WHOSE CHORD BEARS NORTH 82 DEGREES 24 MINUTES 33 SECONDS WEST, 21.53 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.

PARCEL 5D:

THAT PART OF VACATED S. PEORIA DRIVE ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282, IN THE SOUTHEAST QUARTER OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, VACATED BY ORDINANCE RECORDED _____ AS DOCUMENT NUMBER _____, MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT THE INTERSECTION OF THE WEST LINE OF S. HALSTED STREET (AS WIDENED) AND A LINE 25.00 FEET NORTH AND PARALLEL WITH THE SOUTH LINE OF LOT 8 IN CROCKER'S SUBDIVISION; THENCE SOUTH 01 DEGREES 32 MINUTES 38 SECONDS EAST, ALONG SAID WEST LINE, 9.82 FEET; THENCE WESTERLY 95.95 FEET, ALONG THE ARC OF A NON-TANGENT CIRCLE TO THE LEFT, HAVING A RADIUS OF 553.98 FEET AND WHOSE CHORD BEARS SOUTH 81 DEGREES 43 MINUTES 04 SECONDS WEST, 95.83 FEET TO A POINT OF TANGENCY; THENCE SOUTH 76 DEGREES 45 MINUTES 22 SECONDS WEST, 40.59 FEET TO A POINT OF CURVATURE; THENCE WESTERLY 51.17 FEET, ALONG THE ARC OF A NON-TANGENT CIRCLE TO THE RIGHT, HAVING A RADIUS OF 250.00 FEET AND WHOSE CHORD BEARS SOUTH 82 DEGREES 37 MINUTES 11 SECONDS WEST, 51.08 FEET TO A POINT OF TANGENCY; THENCE SOUTH 88 DEGREES 29 MINUTES 00 SECONDS WEST, 36.21 FEET TO A POINT ON THE NORTHERLY LINE OF SAID S. PEORIA DRIVE; THENCE EASTERLY AND NORTHERLY ALONG NORTHERLY AND WESTERLY LINES OF SAID S. PEORIA DRIVE FOR THE NEXT FOUR COURSES; (1) THENCE EASTERLY 82.43 FEET, ALONG THE ARC OF A TANGENT CIRCLE TO THE LEFT, HAVING A RADIUS OF 249.51 FEET AND WHOSE CHORD BEARS NORTH 79 DEGREES 01 MINUTES 08 SECONDS EAST, 82.06 FEET TO A POINT ON A NON TANGENT LINE; (2) THENCE NORTH 76 DEGREES 30 MINUTES 55 SECONDS EAST, 17.37 FEET; (3) THENCE NORTH 01 DEGREES 33 MINUTES 14 SECONDS WEST, 17.46 FEET TO A POINT ON A LINE 25.00 FEET NORTH OF AND PARALLEL WITH THE SOUTH LINE OF LOT 8 IN CROCKER'S SUBDIVISION; (4) THENCE NORTH 88 DEGREES 28 MINUTES 23 SECONDS EAST, ALONG SAID PARALLEL LINE, 123.98 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.

PARCEL 5E:

THAT PART OF VACATED 63RD PARKWAY ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282, IN THE SOUTHEAST QUARTER OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, VACATED BY ORDINANCE RECORDED _____ AS DOCUMENT NUMBER _____, MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT A POINT ON THE WEST LINE OF HALSTED STREET (AS WIDENED), 121.77 FEET NORTH OF THE NORTH LINE OF W. 62ND STREET; THENCE WESTERLY AND SOUTHWESTERLY ALONG EASTERLY AND SOUTHEASTERLY LINE OF SAID 63RD PARKWAY FOR THE NEXT FOUR COURSES; (1) THENCE NORTH 46 DEGREES 34 MINUTES 29 SECONDS WEST, 14.13 FEET; (2)THENCE SOUTH 88 DEGREES 23 MINUTES 40 SECONDS WEST, 285.88 FEET TO A POINT OF CURVATURE; (3) THENCE SOUTHWESTERLY 213.96 FEET, ALONG THE ARC OF A TANGENT CIRCLE TO THE LEFT, HAVING A RADIUS OF 245.56 FEET AND WHOSE CHORD BEARS SOUTH 63 DEGREES 25 MINUTES 59 SECONDS WEST, 207.25 FEET TO A POINT OF TANGENCY; (4) THENCE SOUTH 38 DEGREES 28 MINUTES 19 SECONDS WEST, 64.90 FEET; THENCE NORTHWESTERLY 25.84 FEET, ALONG THE ARC OF A NON-TANGENT CIRCLE TO THE RIGHT, HAVING A RADIUS OF 68.00 FEET AND WHOSE CHORD BEARS NORTH 62 DEGREES 24 MINUTES 54 SECONDS WEST, 25.69 FEET TO A POINT OF TANGENCY; THENCE NORTH 51 DEGREES 31 MINUTES 41 SECONDS WEST, 18.78 FEET TO A POINT ON A LINE 44.00 FEET NORTHWESTERLY OF AND PARALLEL WITH THE SOUTHEASTERLY RIGHT OF WAY LINE OF SAID 63RD PARKWAY; THENCE NORTH 38 DEGREES 28 MINUTES 19 SECONDS EAST, ALONG SAID PARALLEL LINE, 69.75 FEET TO A POINT OF CURVATURE; THENCE NORTHEASTERLY 252.30 FEET, ALONG THE ARC OF A TANGENT CIRCLE TO THE RIGHT, BEING 44.00 FEET NORTHERLY OF AND CONCENTRIC WITH THE SOUTHEASTERLY LINE OF SAID 63RD PARKWAY, HAVING A RADIUS OF 289.56 FEET AND WHOSE CHORD BEARS NORTH 63 DEGREES 25 MINUTES 59 SECONDS EAST, 244.39 FEET TO A POINT OF TANGENCY; THENCE NORTH 88 DEGREES 23 MINUTES 40 SECONDS EAST, ALONG A LINE 44.00 FEET NORTH OF AND PARALLEL WITH THE SOUTH LINE OF SAID 63RD PARKWAY, 283.43 FEET; THENCE SOUTH 46 DEGREES 34 MINUTES 29 SECONDS EAST, 17.67 FEET TO A POINT ON THE WEST LINE OF HALSTED STREET (AS WIDENED); THENCE SOUTH 01 DEGREES 32 MINUTES 38 SECONDS EAST, ALONG SAID WEST LINE, 41.50 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.

PARCEL 6

THAT PART OF VACATED 63RD PARKWAY ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282, IN THE SOUTHEAST QUARTER OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, VACATED BY ORDINANCE RECORDED _____ AS DOCUMENT NUMBER _____, MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT INTERSECTION OF THE NORTH LINE OF SAID S. PEORIA DRIVE AND THE SOUTH LINE OF 63RD PARKWAY AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282; THENCE SOUTH 38 DEGREES 28 MINUTES 19 SECONDS WEST, ALONG SAID SOUTH LINE OF SAID 63RD PARKWAY, 554.70 FEET; THENCE NORTH 08 DEGREES 47 MINUTES 54 SECONDS EAST, 22.65 FEET TO A POINT OF CURVATURE; THENCE NORTHEASTERLY 129.47 FEET, ALONG THE ARC OF A TANGENT CIRCLE TO THE RIGHT, HAVING A RADIUS OF 250.00 FEET AND WHOSE CHORD BEARS NORTH 23 DEGREES 38 MINUTES 06 SECONDS EAST, 128.03 FEET TO A POINT OF TANGENCY, SAID POINT BEING ON A LINE 44.00 FEET NORTHWESTERLY OF AND PARALLEL WITH THE SOUTHEASTERLY RIGHT OF WAY LINE OF SAID 63RD PARKWAY; THENCE NORTH 38 DEGREES 28 MINUTES 19 SECONDS EAST, ALONG SAID PARALLEL LINE, 417.27 FEET; THENCE SOUTH 51 DEGREES 31 MINUTES 41 SECONDS EAST, 18.78 TO A POINT OF CURVATURE; THENCE SOUTHEASTERLY 25.42 FEET, ALONG THE ARC OF A TANGENT CIRCLE TO THE LEFT, HAVING A RADIUS OF 118.00 FEET AND WHOSE CHORD BEARS SOUTH 57 DEGREES 41 MINUTES 59 SECONDS EAST, 25.37 FEET TO A POINT THE SOUTH LINE OF SAID 63RD PARKWAY; THENCE SOUTH 38 DEGREES 28 MINUTES 19 SECONDS WEST, ALONG SAID SOUTH LINE, 8.75 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.

PARCEL 7

THAT PART OF VACATED S. PEORIA DRIVE ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282, IN THE SOUTHEAST QUARTER OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, VACATED BY ORDINANCE RECORDED _____ AS DOCUMENT NUMBER _____, MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE INTERSECTION OF THE NORTH LINE OF W. 63RD STREET AND THE WEST LINE OF S. PEORIA STREET; THENCE NORTH 01 DEGREES 33 MINUTES 26 SECONDS WEST, ALONG AN ASSUMED BEARING AND THE WEST LINE OF SAID S. PEORIA STREET, 14.00 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING NORTH 01 DEGREES 33 MINUTES 26 SECONDS WEST, ALONG SAID WEST LINE, 161.05 FEET TO A POINT ON A NORTHERLY LINE OF S. PEORIA DRIVE AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282; THENCE NORTHERLY, NORTHEASTERLY AND EASTERLY ALONG THE WESTERLY, NORTHWESTERLY AND NORTHERLY LINE OF SAID S. PEORIA DRIVE FOR THE NEXT FOUR COURSES; (1) THENCE NORTH 89 DEGREES 08 MINUTES 20 SECONDS EAST, 8.04 FEET; THENCE NORTH 01 DEGREES 32 MINUTES 37 SECONDS WEST, 237.80 FEET TO POINT OF CURVATURE; (2) THENCE NORTHERLY 100.70 FEET, ALONG THE ARC OF A TANGENT CIRCLE TO THE RIGHT, HAVING A RADIUS OF 211.17 FEET AND WHOSE CHORD BEARS NORTH 12 DEGREES 07 MINUTES 01 SECONDS EAST, 99.75 FEET TO A POINT ON A NON-TANGENT LINE, ALSO BEING A SOUTHEASTERLY LINE OF 63RD PARKWAY AS ESTABLISHED BY ORDINANCE RECORDED MAY 14, 1969 AS DOCUMENT 20841282; (3) THENCE NORTH 38 DEGREES 28 MINUTES 19 SECONDS EAST, ALONG SAID SOUTHEASTERLY LINE, 92.81 FEET; (4) THENCE EASTERLY 9.56 FEET, ALONG THE ARC OF A NON-TANGENT CIRCLE TO THE RIGHT, HAVING A RADIUS OF 211.17 FEET AND WHOSE CHORD BEARS NORTH 52 DEGREES 27 MINUTES 46 SECONDS EAST, 9.56 FEET; THENCE SOUTHEASTERLY 54.57 FEET, ALONG THE ARC OF A NON-TANGENT CIRCLE TO THE RIGHT, HAVING A RADIUS OF 118.00 FEET AND WHOSE CHORD BEARS SOUTH 78 DEGREES 16 MINUTES 10 SECONDS EAST, 54.08 FEET TO A POINT OF TANGENCY; THENCE NORTH 88 DEGREES 29 MINUTES 00 SECONDS EAST, 67.65 FEET TO A POINT ON AN SOUTHERLY LINE OF SAID S. PEORIA DRIVE; THENCE SOUTHWESTERLY AND SOUTHERLY ALONG THE, SOUTHERLY AND EASTERLY LINES OF SAID S. PEORIA DRIVE FOR THE NEXT SEVEN COURSES; (1) THENCE SOUTHWESTERLY 253.24 FEET, ALONG THE ARC OF A TANGENT CIRCLE TO THE LEFT, HAVING A RADIUS OF 161.17 FEET AND WHOSE CHORD BEARS SOUTH 43 DEGREES 28 MINUTES 12 SECONDS WEST, 227.98 FEET TO A POINT OF TANGENCY; (2) THENCE SOUTH 01 DEGREES 32 MINUTES 37 SECONDS EAST, 195.95 FEET; (3) THENCE SOUTH 04 DEGREES 20 MINUTES 16 SECONDS EAST, 83.94 FEET; (4) THENCE NORTH 88 DEGREES 26 MINUTES 34 SECONDS EAST, 3.88 FEET TO A POINT ON THE WEST LINE OF LOT 11 IN SAID EHRLER & HESSERT'S SUBDIVISION; (5) THENCE SOUTH 01 DEGREES 33 MINUTES 26 SECONDS EAST, ALONG SAID WEST LINE, 12.10 FEET TO THE SOUTHWEST CORNER THEREOF, SAID POINT ALSO BEING ON THE NORTH LINE OF A 12 FOOT WIDE EAST WEST ALLEY; (6) THENCE SOUTH 01 DEGREES 33 MINUTES 26 SECONDS EAST, 12.00 FEET TO A POINT ON THE SOUTH LINE OF SAID 12 FOOT EAST WEST ALLEY, SAID POINT ALSO BEING THE NORTHWEST CORNER OF LOT 1 IN CATHLEEN E. SEEHANSEN'S SUBDIVISION RECORDED SEPTEMBER 24, 1874 AS DOCUMENT 192175; (7) THENCE SOUTH 01 DEGREES 33 MINUTES 26 SECONDS EAST, ALONG SAID WEST LINE, 94.90 FEET TO A POINT 14.00 FEET NORTH OF THE SOUTHWEST CORNER THEREOF; THENCE SOUTH 88 DEGREES 28 MINUTES 55 SECONDS WEST, 66.00 FEET TO THE POINT OF BEGINNING, IN COOK COUNTY, ILLINOIS.

MAIL TO:

SPACECO, INC.
9575 W. HIGGINS ROAD
SUITE 700
ROSEMONT, IL. 60018

CDOT#XX-XX-XX-XXXX

FOR REVIEW PURPOSES ONLY

REVISIONS:
08/07/2013
08/30/2013
02/18/2014

SPACECO INC.

CONSULTING ENGINEERS
SITE DEVELOPMENT ENGINEERS
LAND SURVEYORS

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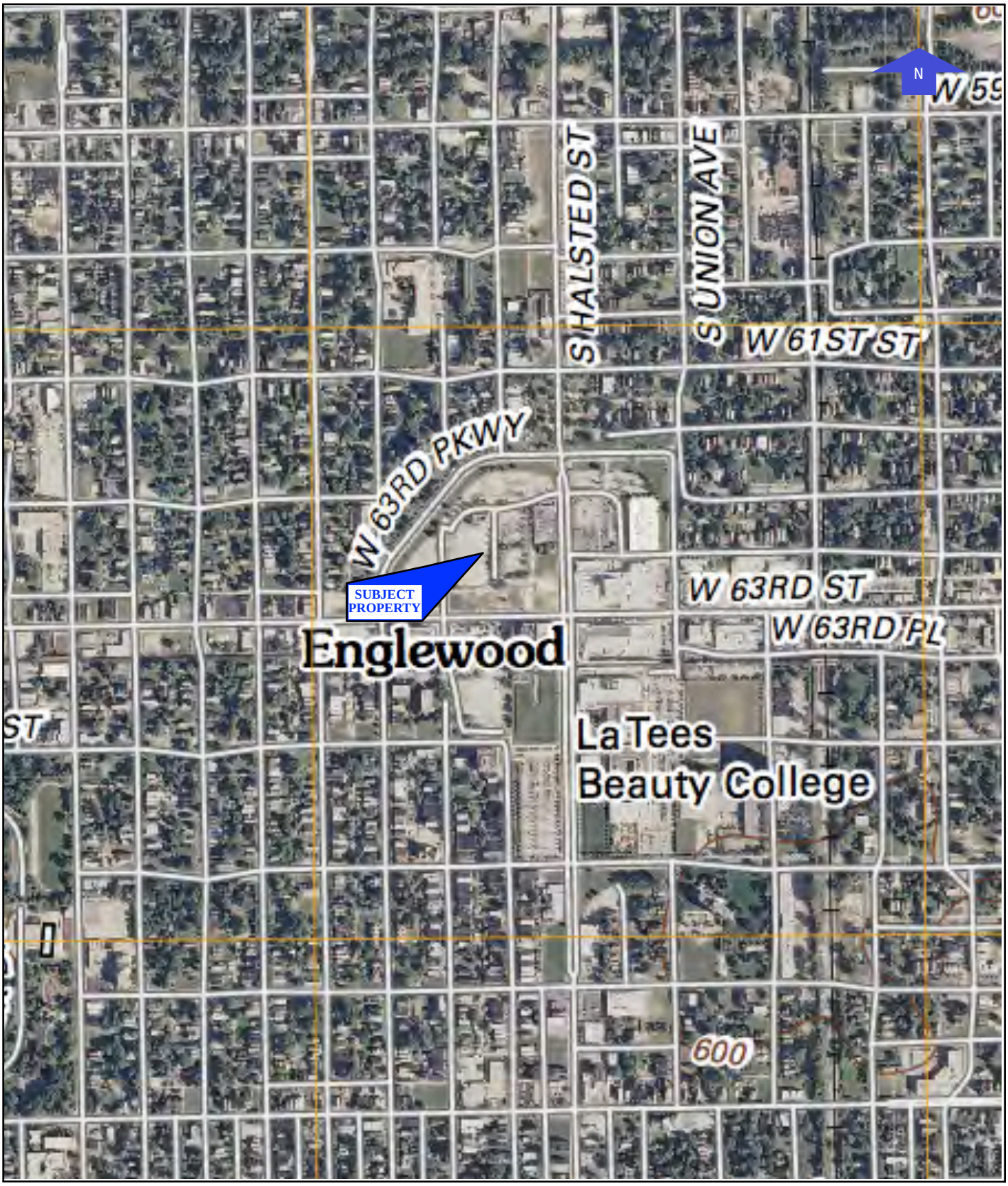
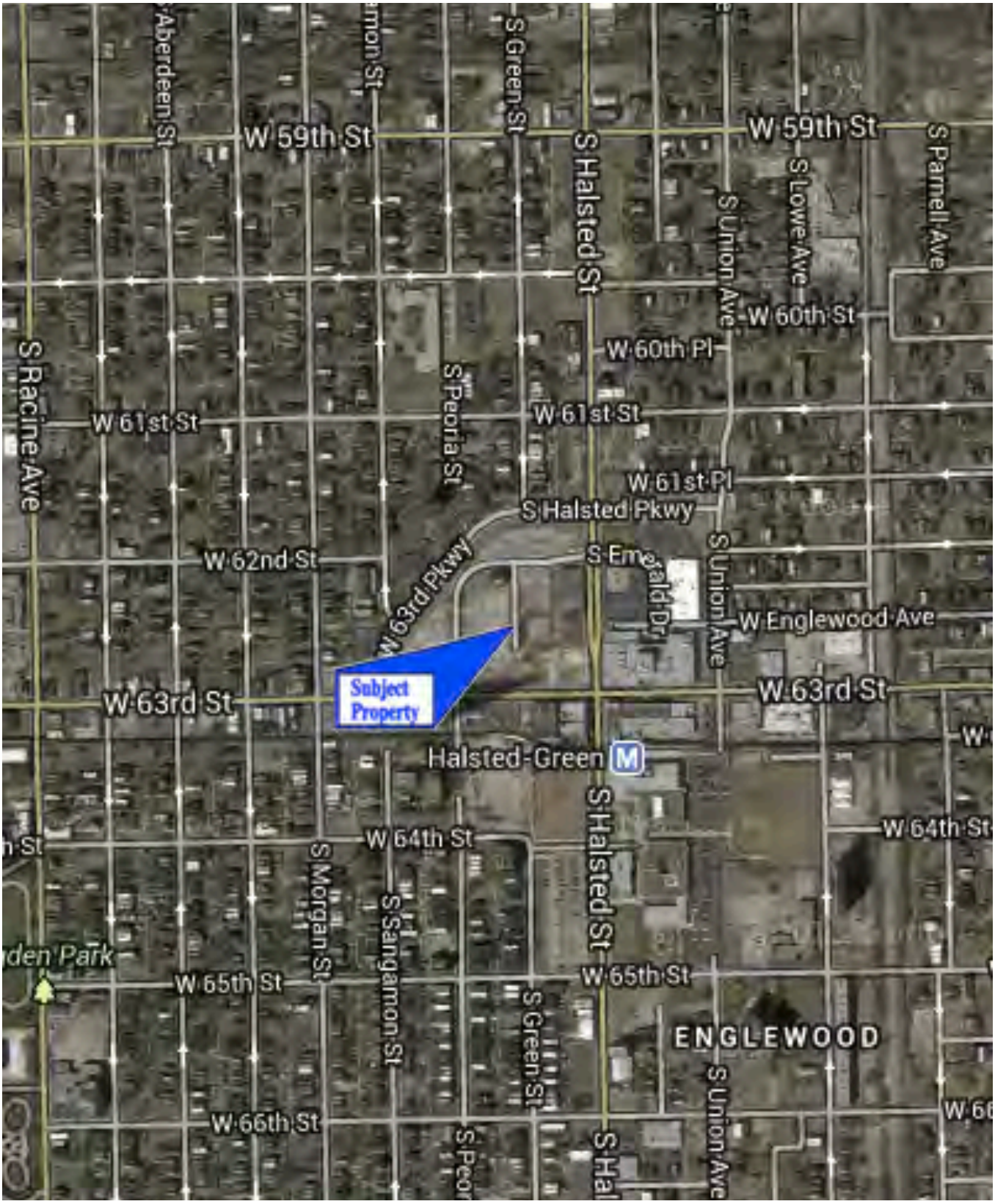
Phone: (847) 696-4060 Fax: (847) 696-4065

DATE: 06/06/2013
JOB NO: 7390
FILENAME: 7390SUB-01
SHEET 4 OF 4

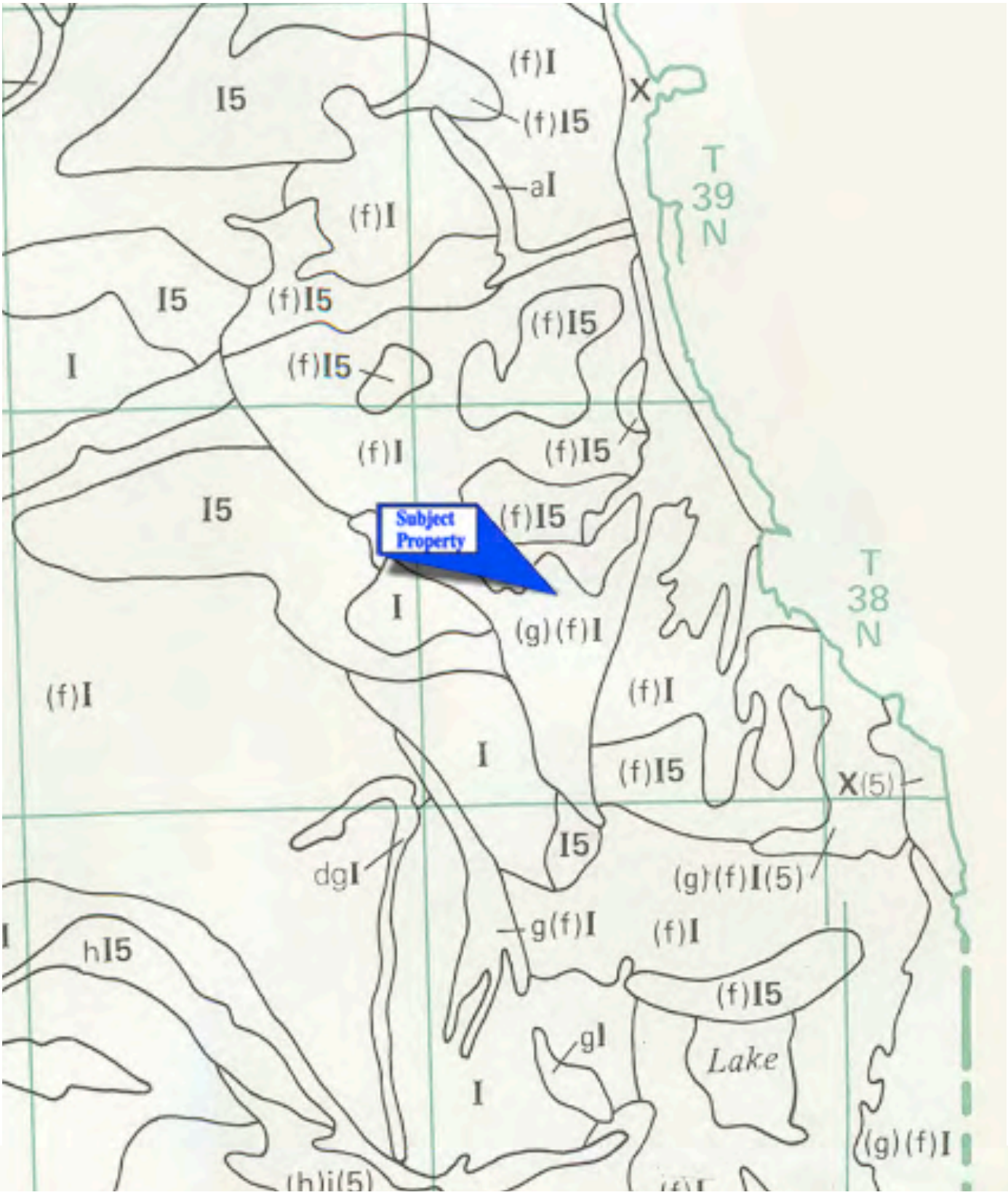
Appendix B: USGS Map, Aerial Photograph, ISGS Maps



PIONEER ENVIRONMENTAL SERVICES, LLC	NWX W. 63rd St. & S. Halsted St. Chicago, Illinois	**USGS TOPOGRAPHIC MAP** **Englewood, IL QUADRANGLE**
	Project Number: 12-0646-102	Date: 2012



PIONEER ENVIRONMENTAL SERVICES, LLC	NWX W. 63rd St. & S. Halsted St. Chicago, Illinois	**Aerial Photograph (2014)**
	Subject property is located in Section 17, Township 38 North, Range 14 East of the Third Principal Meridian.	



PIONEER ENVIRONMENTAL SERVICES, LLC

NWX W. 63rd St. &
S. Halsted St.
Chicago, Illinois

ISGS Stack-Unit Map of Northern Illinois (1987)

KEY: (g) (f) I = Dolton Member of the Discontinuous Equality Formation <6m thick, overlying sand and gravel within Wedron Formation, overlying Wedron Formation, loamy and sandy diamictons > 6m thick.



PIONEER ENVIRONMENTAL SERVICES, LLC

NWX W. 63rd St. &
S. Halsted St.
Chicago, Illinois

ISGS Map - Surficial Geology of the Chicago Region (1970)

KEY: ec = Carmi Member of Equality Formation
DESCRIPTION: Largely quiet-water lake sediments; dominantly well-bedded silt, locally laminated and containing thin beds of clay



PIONEER ENVIRONMENTAL SERVICES, LLC

NWC W. 63rd St. &
S. Halsted St.
Chicago, Illinois

ISGS Circular 532 Map
Potential for Contamination of Shallow Aquifers (1984)

KEY: B1 = Sand and gravel less than 20 feet thick over relatively impermeable till or bedrock.

Appendix C: Soil Boring Logs, Monitoring Well Logs, Photographic Log, Investigation Protocols

PIONEER ENGINEERING & ENVIRONMENTAL SERVICES

Boring Log

Boring No.: B-1

Site: NWC of W. 63rd St.& S.Halsted St. Chicago, IL

Date Begin: 1/9/13

Date End: 1/9/13

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Topsoil		TOPSOIL	
<1	90%			Fill		FILL with black organic clay, sand, and gravel, loose, moist	No Odor, No Visual
			4				
<1	75%			ML		Brown/gray SILT, loose, moist to wet at 7'	No Odor, No Visual
			8				
<1	75%			CL		Gray silty CLAY, hard, moist	No Odor, No Visual
			12				
						Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	D. Laureano
Geologist:	J. Mizwicki
LUST Incident No:	

Water Depth While Drilling: 7' Water Depth After Drilling: NA

Project Number: 12-0646-101 Page 1

PIONEER ENGINEERING & ENVIRONMENTAL SERVICES

Boring Log

Boring No.: B-2

Site: NWC of W. 63rd St.& S.Halsted St. Chicago, IL

Date Begin: 1/9/13

Date End: 1/9/13

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Topsoil		TOPSOIL	
<1	50%			Fill		FILL with black organic clay, sand, and gravel, loose, moist	No Odor, No Visual
			4				
<1	75%			ML		Brown/gray SILT, loose, moist to wet at 7'	No Odor, No Visual
			8				
<1	75%			CL		Gray silty CLAY, hard, moist	No Odor, No Visual
			12				
						Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	D. Laureano
Geologist:	J. Mizwicki
LUST Incident No:	

Water Depth While Drilling: 7' Water Depth After Drilling: NA

Project Number: 12-0646-101 Page 1

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-3

Site:
NWC of W. 63rd St.& S.Halsted St.
Chicago, IL

Date Begin: 1/9/13

Date End: 1/9/13

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Asphalt		ASPHALT	
20	90%			Fill		FILL with gravel, sand, bricks, and black clay, loose, moist	No Odor, No Visual
			4				
22	90%			ML		Black SILT, loose, moist	Petroleum Odor, Soil Discoloration
			8				
<1	90%			ML		Brown/gray SILT, loose, wet	No Odor, No Visual
				CL		Gray silty CLAY, hard, moist	
			12			Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	D. Laureano
Geologist:	J. Mizwicki
LUST Incident No:	

Water Depth While Drilling: 7' Water Depth After Drilling: NA

Project Number: 12-0646-101 Page 1

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-4

Site:
NWC of W. 63rd St.& S.Halsted St.
Chicago, IL

Date Begin: 1/9/13

Date End: 1/9/13

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Asphalt		ASPHALT	
2	60%		4	Fill		FILL with gravel, clay, and sand, loose, moist	No Odor, No Visual
6	60%		8	ML		Black/brown SILT, loose, moist	Slight Odor, Soil Discoloration
<1	75%		12	ML		Brown/gray SILT, loose, wet	No Odor, No Visual
				CL		Gray silty CLAY, hard, moist	
						Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	D. Laureano
Geologist:	J. Mizwicki
LUST Incident No:	

Water Depth While Drilling: 7' Water Depth After Drilling: NA

Project Number: 12-0646-101 Page 1

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-5

Site:
NWC of W. 63rd St.& S.Halsted St.
Chicago, IL

Date Begin: 1/9/13

Date End: 1/9/13

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Asphalt		ASPHALT	
<1	75%			Fill		FILL with black gravel and sand, loose, moist	No Odor, No Visual
				CL		Black silty CLAY, medium stiff, moist	
			4				
36	75%			ML		Black/brown SILT, loose, moist to wet at 7'	Petroleum Odor, Soil Discoloration
			8				
3	75%			ML		Brown/gray SILT, loose, wet	No Odor, No Visual
1	75%			CL		Gray silty CLAY, hard, moist	No Odor, No Visual
			12				
						Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	D. Laureano
Geologist:	J. Mizwicki
LUST Incident No:	

Water Depth While Drilling: 7' Water Depth After Drilling: NA

Project Number: 12-0646-101 Page 1

PIONEER ENGINEERING & ENVIRONMENTAL SERVICES

Boring Log

Boring No.: B-6

Site: NWC of W. 63rd St.& S.Halsted St. Chicago, IL

Date Begin: 1/9/13

Date End: 1/9/13

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Asphalt		ASPHALT	
<1	90%			Fill		FILL with black gravel, sand, and clay, loose, moist	No Odor, No Visual
			4				
				ML		Brown/black SILT, loose, wet	
<1	60%					Brown/gray SILT, loose, wet	No Odor, No Visual
			8				
				ML			
<1	75%						No Odor, No Visual
				CL		Gray silty CLAY, medium stiff, moist	
			12				
						Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	D. Laureano
Geologist:	J. Mizwicki
LUST Incident No:	

Water Depth While Drilling: 4' Water Depth After Drilling: NA

Project Number: 12-0646-101 Page 1

PIONEER ENGINEERING & ENVIRONMENTAL SERVICES

Boring Log

Boring No.: B-7

Site: NWC of W. 63rd St.& S.Halsted St. Chicago, IL

Date Begin: 1/9/13

Date End: 1/9/13

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Topsoil		TOPSOIL	
2	60%			Fill		FILL with black sand, silt, and gravel, loose, moist	No Odor, No Visual
				CL		Black silty CLAY, soft, moist	
			4				
10	75%			ML		Brown/gray SILT, loose, moist to wet at 7'	No Odor, No Visual
			8				
<1	75%			CL		Gray silty CLAY, hard, moist	No Odor, No Visual
			12				
						Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	D. Laureano
Geologist:	J. Mizwicki
LUST Incident No:	

Water Depth While Drilling: 7' Water Depth After Drilling: NA

Project Number: 12-0646-101 Page 1

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-8

Site:
NWC of W. 63rd St.& S.Halsted St.
Chicago, IL

Date Begin: 1/9/13

Date End: 1/9/13

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Asphalt		ASPHALT	
1	75%			Fill		FILL with black gravel and sand, loose, moist	No Odor, No Visual
				CL		Black/brown silty CLAY, soft, moist	
			4				
				ML		Brown SILT, loose, moist	
6	75%			ML		Brown/black SILT, loose, wet	Slight Odor, Soil Discoloration
						Brown/gray SILT, loose, wet	
			8				
<1	95%			ML			No Odor, No Visual
				CL		Gray silty CLAY, medium stiff, moist	
			12				
						Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	D. Laureano
Geologist:	J. Mizwicki
LUST Incident No:	

Water Depth While Drilling: 7' Water Depth After Drilling: NA

Project Number: 12-0646-101 Page 1

PIONEER ENGINEERING & ENVIRONMENTAL SERVICES

Boring Log

Boring No.: B-9

Site: NWC of W. 63rd St.& S.Halsted St. Chicago, IL

Date Begin: 1/9/13

Date End: 1/9/13

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Asphalt		ASPHALT	
<1	50%		4	Fill		FILL with black gravel, sand, and bricks, loose, moist	No Odor, No Visual
<1	75%		8	ML		Brown SILT, loose, moist	No Odor, No Visual
<1	75%		12	ML		Brown/gray SILT, loose, wet	No Odor, No Visual
				CL		Gray silty CLAY, hard, moist	
						Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	D. Laureano
Geologist:	J. Mizwicki
LUST Incident No:	

Water Depth While Drilling: 7' Water Depth After Drilling: NA

Project Number: 12-0646-101

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-10

Site:
NWC of W. 63rd St.& S.Halsted St.
Chicago, IL

Date Begin: 1/9/13

Date End: 1/9/13

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Concrete		CONCRETE	
15	50%			Fill		FILL with black gravel, sand, and silt, loose, moist	No Odor, No Visual
			4				
131	90%			ML		Black SILT, loose, moist	Petroleum Odor, Soil Discoloration
			8				
48	75%			ML		Brown/gray SILT, loose, wet	Petroleum Odor, No Visual
2	75%			CL		Gray silty CLAY, hard, wet	No Odor, No Visual
			12			Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	D. Laureano
Geologist:	J. Mizwicki
LUST Incident No:	

Water Depth While Drilling: 7' Water Depth After Drilling: NA

Project Number: 12-0646-101 Page 1

PIONEER ENGINEERING & ENVIRONMENTAL SERVICES

Boring Log

Boring No.: B-11

Site: NWC of W. 63rd St.& S.Halsted St. Chicago, IL

Date Begin: 1/9/13

Date End: 1/9/13

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Asphalt		ASPHALT	
3	60%		4	Fill		FILL with black sand, gravel, and clay, loose, moist	No Odor, No Visual
<1	75%		8	ML		Brown/gray SILT, loose, wet	No Odor, No Visual
<1	75%		12	CL		Gray silty CLAY, hard, wet	No Odor, No Visual
						Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	D. Laureano
Geologist:	J. Mizwicki
LUST Incident No:	

Water Depth While Drilling: 5' Water Depth After Drilling: NA

Project Number: 12-0646-101 Page 1

PIONEER ENGINEERING & ENVIRONMENTAL SERVICES

Boring Log

Boring No.: B-12

Site: NWC of W. 63rd St.& S.Halsted St. Chicago, IL

Date Begin: 1/9/13

Date End: 1/9/13

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Asphalt		ASPHALT with gravel base	
<1	75%			Fill		FILL with black clay with gravel, loose, moist	No Odor, No Visual
			4				
<1	75%			ML		Brown SILT, loose, wet	No Odor, No Visual
			8				
<1	90%			ML		Brown/gray SILT, loose, wet	No Odor, No Visual
				CL		Gray silty CLAY, hard, wet	
			12				
						Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	D. Laureano
Geologist:	J. Mizwicki
LUST Incident No:	

Water Depth While Drilling: 5' Water Depth After Drilling: NA

Project Number: 12-0646-101 Page 1

PIONEER ENGINEERING & ENVIRONMENTAL SERVICES

Boring Log

Boring No.: B-13

Site: NWC of W. 63rd St.& S.Halsted St. Chicago, IL

Date Begin: 1/9/13

Date End: 1/9/13

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Asphalt		ASPHALT	
<1	75%			Fill		FILL with black sand and gravel, loose, moist	No Odor, No Visual
			4	CL		Black CLAY with gravel, soft, moist	
<1	90%			ML		Brown SILT, loose, moist to wet at 7'	No Odor, No Visual
			8	ML		Brown/gray SILT, loose, wet	
<1	75%			CL		Gray silty CLAY, hard, moist	No Odor, No Visual
			12			Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	D. Laureano
Geologist:	J. Mizwicki
LUST Incident No:	

Water Depth While Drilling: 7' Water Depth After Drilling: NA

Project Number: 12-0646-101 Page 1

PIONEER
ENGINEERING & ENVIRONMENTAL SERVICES

Boring Log

Boring No.: B-14

Site: NWC of W. 63rd St.& S.Halsted St. Chicago, IL

Date Begin: 1/9/13

Date End: 1/9/13

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Asphalt		ASPHALT	
<1	60%			Fill		FILL with gravel, sand, and clay, loose, moist	No Odor, No Visual
			4	SM		Brown fine SAND, loose, moist	
<1	75%			ML		Brown SILT, loose, moist to wet at 7'	No Odor, No Visual
			8	ML		Brown/gray SILT, loose, wet	
<1	75%						No Odor, No Visual
				CL		Gray silty CLAY, hard, moist	
			12			Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	D. Laureano
Geologist:	J. Mizwicki
LUST Incident No:	

Water Depth While Drilling: 7' Water Depth After Drilling: NA

Project Number: 12-0646-101 Page 1

PIONEER ENGINEERING & ENVIRONMENTAL SERVICES

Boring Log

Boring No.: B-15

Site: NWC of W. 63rd St.& S.Halsted St. Chicago, IL

Date Begin: 1/9/13

Date End: 1/9/13

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				GC		GRAVEL	
				Concrete		CONCRETE	
<1	50%			Fill		FILL with sand, gravel, and bricks, loose, moist	No Odor, No Visual
			4				
<1	75%			ML		Brown/gray SILT, loose, moist	No Odor, No Visual
			8				
<1	75%						No Odor, No Visual
				CL		Gray silty CLAY, hard, moist	
			12			Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	D. Laureano
Geologist:	J. Mizwicki
LUST Incident No:	

Water Depth While Drilling: ND Water Depth After Drilling: NA

Project Number: 12-0646-101

PIONEER ENGINEERING & ENVIRONMENTAL SERVICES

Boring Log

Boring No.: B-16

Site: NWC of W. 63rd St.& S.Halsted St. Chicago, IL

Date Begin: 1/9/13

Date End: 1/9/13

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Asphalt		ASPHALT	
<1	75%			Fill		FILL wityh gravel, sand, trace bricks, and clay, loose, moist	No Odor, No Visual
			4				
<1	75%			ML		Brown/gray SILT, loose, moist to wet at 6'	No Odor, No Visual
			8				
<1	75%						No Odor, No Visual
				CL		Gray silty CLAY, hard, moist	
			12				
						Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	D. Laureano
Geologist:	J. Mizwicki
LUST Incident No:	

Water Depth While Drilling: 6' Water Depth After Drilling: NA

Project Number: 12-0646-101 Page 1

PIONEER ENGINEERING & ENVIRONMENTAL SERVICES

Boring Log

Boring No.: B-17

Site: NWC of W. 63rd St.& S.Halsted St. Chicago, IL

Date Begin: 1/9/13

Date End: 1/9/13

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Asphalt		ASPHALT	
<1	50%			Fill		FILL wityh gravel, sand, trace bricks, and clay, loose, moist	No Odor, No Visual
			4				
<1	75%			ML		Brown/gray SILT, loose, moist to wet at 6'	No Odor, No Visual
			8				
<1	75%						No Odor, No Visual
				CL		Gray silty CLAY, hard, moist	
			12				
						Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	D. Laureano
Geologist:	J. Mizwicki
LUST Incident No:	

Water Depth While Drilling: 6' Water Depth After Drilling: NA

Project Number: 12-0646-101

PIONEER ENGINEERING & ENVIRONMENTAL SERVICES

Boring Log

Boring No.: B-18

Site: NWC of W. 63rd St.& S.Halsted St. Chicago, IL

Date Begin: 1/9/13

Date End: 1/9/13

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Asphalt		ASPHALT	
<1	75%			Fill		FILL with sand, gravel, and clay, loose, moist	No Odor, No Visual
				ML		Brown SILT, soft, moist	
			4				
<1	75%			ML		Brown/gray SILT, loose, wet	No Odor, No Visual
			8				
<1	75%			CL		Gray silty CLAY, hard, moist	No Odor, No Visual
			12				
						Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	D. Laureano
Geologist:	J. Mizwicki
LUST Incident No:	

Water Depth While Drilling: 5' Water Depth After Drilling: NA

Project Number: 12-0646-101 Page 1

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-19

Site:
NWC of W. 63rd St.& S.Halsted St.
Chicago, IL

Date Begin: 1/9/13

Date End: 1/9/13

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Asphalt		ASPHALT	
1	60%			Fill		FILL with sand, and gravel, loose, moist	No Odor, No Visual
			4				
78	90%			ML		Black SILT, loose, wet	Petroleum Odor, Soil Discoloration
			8				
2	95%			ML		Brown/gray SILT, loose, wet	No Odor, No Visual
<1	95%			CL		Gray silty CLAY, hard, moist	No Odor, No Visual
			12				
						Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	D. Laureano
Geologist:	J. Mizwicki
LUST Incident No:	

Water Depth While Drilling: 5' Water Depth After Drilling: NA

Project Number: 12-0646-101 Page 1

PIONEER
ENGINEERING & ENVIRONMENTAL SERVICES

Boring Log

Boring No.: B-20

Site: NWC of W. 63rd St.& S.Halsted St. Chicago, IL

Date Begin: 1/9/13

Date End: 1/9/13

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				GC		GRAVEL with sand	
<1	60%			Fill		FILL with gravel, bricks, and sand, loose, moist	No Odor, No Visual
			4				
<1	75%			SM		Brown fine SAND, loose, moist	No Odor, No Visual
			8	ML		Brown SILT, loose, wet	
<1	90%			CL		Gray silty CLAY, hard, moist	No Odor, No Visual
			12			Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	D. Laureano
Geologist:	J. Mizwicki
LUST Incident No:	

Water Depth While Drilling: 7' Water Depth After Drilling: NA

Project Number: 12-0646-101 Page 1

PIONEER ENGINEERING & ENVIRONMENTAL SERVICES

Boring Log

Boring No.: B-21

Site: NWC of W. 63rd St.& S.Halsted St. Chicago, IL

Date Begin: 1/9/13

Date End: 1/9/13

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				GC		GRAVEL with sand	
<1	75%			Fill		FILL with sand, silt, gravel, and brick, loose, moist	No Odor, No Visual
			4				
<1	25%						No Odor, No Visual
			8				
<1	30%						No Odor, No Visual
				CL		Gray silty CLAY, soft, wet	
			12			Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	D. Laureano
Geologist:	J. Mizwicki
LUST Incident No:	

Water Depth While Drilling: 11' Water Depth After Drilling: NA

Project Number: 12-0646-101 Page 1

PIONEER ENGINEERING & ENVIRONMENTAL SERVICES

Boring Log

Boring No.: B-22

Site: NWC of W. 63rd St.& S.Halsted St. Chicago, IL

Date Begin: 1/11/13

Date End: 1/11/13

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
<1				Fill		Construction Debris	No Odor, No Visual
			4	Concrete		CONCRETE OBSTRUCTION	
<1				Fill		Glass, cinders, garbage, & concrete rubble	No Odor, No Visual
			8				
<1				Fill		Fine gravel, coarse sand, some clay, construction debris, glass & brick	No Odor, No Visual
			12				
<1				CL		Gray silty CLAY	No Odor, No Visual
						Boring Terminated at 13' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	J. Valadez
Geologist:	T. Mueller-Sim
LUST Incident No:	

Water Depth While Drilling: 6' Water Depth After Drilling: NA

Project Number: 12-0646-101 Page 1

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-101

Site:
NWC West 63rd Street & South Halsted Street
Chicago , IL

Date Begin: 2/20/14

Date End: 2/20/14

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Fill		Crushed stone FILL	
						Brown sandy clay FILL with crushed stone and brick, medium stiff, moist	
<1	90%						No Odor, No Visual
			4				
				Fill			
<1	10%						No Odor, No Visual
			8				
<1	5%						No Odor, No Visual
						Boring Refusal at 10' BSG	
			12				

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	J. Mizwicki
Geologist:	N. Struble
LUST Incident No:	

Water Depth While Drilling: ND Water Depth After Drilling: NA

Project Number: 12-0646-102

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-102

Site:
NWC West 63rd Street & South Halsted Street
Chicago , IL

Date Begin: 2/20/14

Date End: 2/20/14

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Asphalt		ASPHALT	
<1	60%		4	Fill		Black crushed stone and clay sandy FILL, medium stiff, moist	No Odor, No Visual
<1	50%		8	ML		Brown fine sandy SILT, loose, wet	No Odor, No Visual
<1	80%		12	CL		Gray silty CLAY, stiff, wet	No Odor, No Visual
						Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	J. Mizwicki
Geologist:	N. Struble
LUST Incident No:	

Water Depth While Drilling: 5' Water Depth After Drilling: NA

Project Number: 12-0646-102 Page 1

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-103

Site:
NWC West 63rd Street & South Halsted Street
Chicago , IL

Date Begin: 2/20/14

Date End: 2/20/14

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Asphalt		ASPHALT	
<1	60%		4	Fill		Black crushed stone and clay sandy FILL, medium stiff, moist	No Odor, No Visual
<1	60%		8	ML		Brown/gray fine sandy SILT,loose, moist to wet at 7'	No Odor, No Visual
<1	40%		12	CL		Gray silty CLAY, stiff, wet	No Odor, No Visual
						Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	J. Mizwicki
Geologist:	N. Struble
LUST Incident No:	

Water Depth While Drilling: 7' Water Depth After Drilling: NA

Project Number: 12-0646-102

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-104

Site:
NWC West 63rd Street & South Halsted Street
Chicago , IL

Date Begin: 2/20/14

Date End: 2/20/14

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Asphalt		ASPHALT	
<1	60%			Fill		Black/brown crushed stone and clay sandy FILL, medium stiff, moist	No Odor, No Visual
			4				
<1	60%			ML		Brown fine sandy SILT, loose, moist to wet at 6'	No Odor, No Visual
			8				
<1	50%						No Odor, No Visual
				CL		Gray silty CLAY, stiff, wet	
			12			Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	J. Mizwicki
Geologist:	N. Struble
LUST Incident No:	

Water Depth While Drilling: 6' Water Depth After Drilling: NA

Project Number: 12-0646-102 Page 1

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-105

Site:
NWX W. 63rd St. & S. Halsted St.
Chicago , IL

Date Begin: 2/19/14

Date End: 2/19/14

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Topsoil		TOPSOIL	
<1	75%		4	Fill		FILL with black silty clay, medium stiff, moist	No Odor, No Visual
<1	60%		8	ML		Brown/gray fine sandy SILT, loose, moist to wet at 6'	No Odor, No Visual
<1	95%		12	CL		Gray silty CLAY, stiff, wet	No Odor, No Visual
						Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	D. Laureano
Geologist:	J. Mizwicki
LUST Incident No:	

Water Depth While Drilling: 6' Water Depth After Drilling: NA

Project Number: 12-0646-102

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-106

Site:
NWC West 63rd Street & South Halsted Street
Chicago , IL

Date Begin: 2/19/14

Date End: 2/19/14

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
<1	50%			Fill		Black sandy asphalt FILL with crushed stone, medium stiff, moist	No Odor, No Visual
			4	CL		Black/brown sandy CLAY, medium stiff, moist to wet at 5'	
<1	60%					Brown fine sandy SILT, loose, wet	No Odor, No Visual
			8	ML			
<1	60%						No Odor, No Visual
				CL		Gray silty CLAY, stiff, wet	
			12			Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	J. Mizwicki/J. Valadez
Geologist:	N. Struble
LUST Incident No:	

Water Depth While Drilling: 5' Water Depth After Drilling: NA

Project Number: 12-0646-102 Page 1

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-107

Site:
NWC West 63rd Street & South Halsted Street
Chicago , IL

Date Begin: 2/20/14

Date End: 2/20/14

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Topsoil		TOPSOIL	
<1	70%					Black clay, crushed stone, brick, wood, and sand FILL, medium stiff, moist to wet at 7'	No Odor, No Visual
			4	Fill			
<1	60%						No Odor, No Visual
			8				
<1	90%			SM		Brown fine sandy SILT, loose, wet	No Odor, No Visual
				CL		Gray silty CLAY, stiff, wet	
			12			Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	J. Mizwicki
Geologist:	N. Struble
LUST Incident No:	

Water Depth While Drilling: 7' Water Depth After Drilling: NA

Project Number: 12-0646-102 Page 1

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-108

Site:
NWX W. 63rd St. & S. Halsted St.
Chicago , IL

Date Begin: 2/19/14

Date End: 2/19/14

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
<1	70%			Fill		Black sandy asphalt FILL with crushed stone, medium stiff, moist	No Odor, No Visual
			4	CL		Black/brown sandy CLAY, medium stiff, moist	
<1	60%						No Odor, No Visual
			8	SM		Brown fine sandy SILT, loose, wet	
<1	90%						No Odor, No Visual
				CL		Gray silty CLAY, stiff, wet	
			12			Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	J. Mizwicki/J. Valadez
Geologist:	N. Struble
LUST Incident No:	

Water Depth While Drilling: 6' Water Depth After Drilling: NA

Project Number: 12-0646-102 Page 1

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-109

Site:
NWC West 63rd Street & South Halsted Street
Chicago , IL

Date Begin: 2/19/14

Date End: 2/19/14

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Asphalt		ASPHALT	
<1	80%			Fill		Black sandy clay FILL with crushed stone, medium stiff, moist	No Odor, No Visual
			4				
<1	80%			ML		Brown fine sandy SILT, loose, moist to wet at 5'	No Odor, No Visual
			8				
<1	80%						No Odor, No Visual
				CL		Gray silty CLAY, stiff, wet	
			12				
						Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	J. Mizwicki/J. Valadez
Geologist:	N. Struble
LUST Incident No:	

Water Depth While Drilling: 5' Water Depth After Drilling: NA

Project Number: 12-0646-102 Page 1

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-110

Site:
NWX W. 63rd St. & S. Halsted St.
Chicago , IL

Date Begin: 2/19/14

Date End: 2/19/14

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Asphalt		ASPHALT with gravel base	
<1	60%			Fill		FILL with black gravel and white crushed gravel, loose, moist	No Odor, No Visual
			4	CL		Black/brown silty CLAY, hard, moist	
2	75%			SM		Brown/gray fine sandy SILT, loose, moist to wet at 7'	No Odor, No Visual
			8				
<1	75%						No Odor, No Visual
				CL		Gray silty CLAY, stiff, wet	
			12			Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 7822 DT
Driller:	J. Valadez
Geologist:	J. Mizwicki
LUST Incident No:	

Water Depth While Drilling: 7' Water Depth After Drilling: NA

Project Number: 12-0646-102

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-111

Site:
NWC West 63rd Street & South Halsted Street
Chicago , IL

Date Begin: 2/19/14

Date End: 2/19/14

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Asphalt		ASPHALT with gravel base	
<1	75%			Fill		FILL with white crushed gravel, loose, moist	No Odor, No Visual
			4	CL		Black silty CLAY with white crushed gravel, loose, moist	
<1	60%						No Odor, No Visual
			8	ML		Brown fine sandy SILT, loose, moist to wet at 7'	
<1	75%						No Odor, No Visual
				CL		Gray silty CLAY, stiff, wet	
			12			Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig: Geoprobe 7822 DT

Driller: J. Valadez

Geologist: J. Mizwicki

LUST Incident No:

Water Depth While Drilling: 7' Water Depth After Drilling: NA

Project Number: 12-0646-102

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-112

Site:
NWC West 63rd Street & South Halsted Street
Chicago , IL

Date Begin: 2/19/14

Date End: 2/19/14

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Topsoil		TOPSOIL	
						FILL with crushed stone, brick, and clay, loose, moist	
<1	60%						No Odor, No Visual
			4				
				Fill			
<1	20%						No Odor, No Visual
			8				
<1	50%						No Odor, No Visual
				CL		Gray silty CLAY, soft, wet	
			12			Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	J. Mizwicki
Geologist:	N. Struble
LUST Incident No:	

Water Depth While Drilling: 11' Water Depth After Drilling: NA

Project Number: 12-0646-102

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-113

Site:
NWX W. 63rd St. & S. Halsted St.
Chicago , IL

Date Begin: 2/19/14

Date End: 2/19/14

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Topsoil		TOPSOIL	
<1	90%			Fill		Silty, sandy, clay FILL with crushed stone, brick and asphalt, medium stiff, moist	No Odor, No Visual
			4	CL		Black/brown silty CLAY, medium stiff, moist	
<1	90%			ML		Brown fine sandy SILT, medium dense, wet	No Odor, No Visual
<1	70%		8				No Odor, No Visual
				CL		Gray silty CLAY, stiff, wet	
			12			Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 7822 DT
Driller:	D. Laureano
Geologist:	N. Struble
LUST Incident No:	

Water Depth While Drilling: 5' Water Depth After Drilling: NA

Project Number: 12-0646-102 Page 1

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-114

Site:
NWX W. 63rd St. & S. Halsted St.
Chicago , IL

Date Begin: 2/19/14

Date End: 2/19/14

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Topsoil		TOPSOIL	
<1	70%			Fill		Silty, sandy, clay FILL with crushed stone, brick and asphalt, medium stiff, moist	No Odor, No Visual
			4	CL		Black/brown silty CLAY, medium stiff, moist	
<1	80%			ML		Brown fine sandy SILT, medium dense, wet	No Odor, No Visual
			8				
6	80%						No Odor, No Visual
				CL		Gray silty CLAY, stiff, wet	
			12			Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 7822 DT
Driller:	D. Laureano
Geologist:	N. Struble
LUST Incident No:	

Water Depth While Drilling: 5' Water Depth After Drilling: NA

Project Number: 12-0646-102 Page 1

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-115

Site:
NWX W. 63rd St. & S. Halsted St.
Chicago , IL

Date Begin: 2/19/14

Date End: 2/19/14

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Concrete		CONCRETE	
						Brick and crushed stone FILL, loose, dry	
<1	60%			Fill			No Odor, No Visual
			4				
						Gray fine sandy SILT, loose, wet	
102	60%			ML			Petroleum Odor, No Visual
			8				
						Brown fine sandy SILT, loose, wet	
				ML			
3	90%						No Odor, No Visual
				CL		Gray silty CLAY, stiff, wet	
			12				
						Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 7822 DT
Driller:	D. Laureano
Geologist:	N. Struble
LUST Incident No:	

Water Depth While Drilling: 5' Water Depth After Drilling: NA

Project Number: 12-0646-102 Page 1

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-116

Site:
NWX W. 63rd St. & S. Halsted St.
Chicago , IL

Date Begin: 2/19/14

Date End: 2/19/14

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Concrete		CONCRETE	
<1	70%		4	Fill		Silty, sandy clay FILL with crushed stone, brick, and asphalt, medium stiff, moist	No Odor, No Visual
121	70%		8	CL		Black/brown sandy CLAY, soft, wet	Petroleum Odor, Soil Discoloration
93	70%			ML		Brown fine sandy SILT, loose, wet	Slight Petroleum Odor, No Visual
4	70%		12	CL		Gray silty CLAY, stiff, wet	No Odor, No Visual
						Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 7822 DT
Driller:	D. Laureano
Geologist:	N. Struble
LUST Incident No:	

Water Depth While Drilling: 5' Water Depth After Drilling: NA

Project Number: 12-0646-102

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-117

Site:
NWC West 63rd Street & South Halsted Street
Chicago , IL

Date Begin: 2/19/14

Date End: 2/19/14

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Topsoil		TOPSOIL	
						Brown sandy, silty clay FILL, loose, moist	
<1	60%			Fill			No Odor, No Visual
			4				
						Crushed stone and brick FILL, loose, moist to wet at 7'	
<1	30%			Fill			No Odor, No Visual
			8				
<1	10%						No Odor, No Visual
						Boring Refusal at 10' BSG	
			12				

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 7822 DT
Driller:	D. Laureano
Geologist:	N. Struble
LUST Incident No:	

Water Depth While Drilling: 5' Water Depth After Drilling: NA

Project Number: 12-0646-102 Page 1

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-118

Site:
NWC West 63rd Street & South Halsted Street
Chicago , IL

Date Begin: 2/19/14

Date End: 2/19/14

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Asphalt		ASPHALT	
				CL		Black/brown silty CLAY, medium stiff, moist	
<1	10%			Fill		Crushed stone FILL, medium stiff, moist	No Odor, No Visual
			4				
<1	60%			ML		Brown fine sandy SILT, loose, wet	No Odor, No Visual
			8				
<1	80%						No Odor, No Visual
				CL		Gray silty CLAY, stiff, wet	
			12			Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 7822 DT
Driller:	D. Laureano/J. Valadez
Geologist:	N. Struble
LUST Incident No:	

Water Depth While Drilling: 5' Water Depth After Drilling: NA

Project Number: 12-0646-102 Page 1

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-119

Site:
NWC West 63rd Street & South Halsted Street
Chicago , IL

Date Begin: 2/19/14

Date End: 2/19/14

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Asphalt		ASPHALT	
				Fill		Black sandy FILL, medium stiff, moist	
<1	60%						No Odor, No Visual
				Fill		Crushed stone FILL, medium stiff, moist	
			4				
				CL		Gray sandy CLAY, medium stiff, moist	
						Brown fine sandy SILT, loose, moist to wet at 6'	
<1	80%						No Odor, No Visual
			8	ML			
<1	80%						No Odor, No Visual
				CL		Gray silty CLAY, stiff, wet	
			12				
						Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 7822 DT
Driller:	D. Laureano/J. Valadez
Geologist:	N. Struble
LUST Incident No:	

Water Depth While Drilling: 6' Water Depth After Drilling: NA

Project Number: 12-0646-102 Page 1

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-120

Site:
NWC West 63rd Street & South Halsted Street
Chicago , IL

Date Begin: 2/19/14

Date End: 2/19/14

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Topsoil		TOPSOIL	
						FILL with gravel, sand, silt, and bricks, loose, moist to wet at 8'	
0.2	75%						No Odor, No Visual
			4	Fill			
<1	25%						No Odor, No Visual
			8				
				ML		Black fine sandy SILT, loose, moist	
<1	75%						No Odor, No Visual
				CL		Gray silty CLAY, medium stiff, moist	
			12				
						Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 7822 DT
Driller:	J. Valadez
Geologist:	J. Mizwicki
LUST Incident No:	

Water Depth While Drilling: 8' Water Depth After Drilling: NA

Project Number: 12-0646-102 Page 1

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-121

Site:
NWC West 63rd Street & South Halsted Street
Chicago , IL

Date Begin: 2/19/14

Date End: 2/19/14

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Topsoil		TOPSOIL	
<1	30%		4	Fill		Brown silty, sand, FILL with crushed stone and wood pieces, medium stiff, moist	No Odor, No Visual
<1	60%		8	ML		Brown fine sandy SILT, medium dense, moist	No Odor, No Visual
<1	70%			CL		Gray silty, sandy CLAY, soft, wet	No Odor, No Visual
			12	CL		Gray silty CLAY, stiff, moist	
						Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	J. Mizwicki
Geologist:	N. Struble
LUST Incident No:	

Water Depth While Drilling: 7' Water Depth After Drilling: NA

Project Number: 12-0646-102 Page 1

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-122

Site:
NWX W. 63rd St. & S. Halsted St.
Chicago , IL

Date Begin: 2/19/14

Date End: 2/19/14

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Topsoil		TOPSOIL	
<1	80%			Fill		Black/brown silty clay FILL with crushed stone, medium stiff, moist	No Odor, No Visual
			4				
<1	60%					Brown fine sandy SILT, medium dense, moist to wet at 8'	No Odor, No Visual
			8	ML			
<1	50%						No Odor, No Visual
				CL		Gray silty CLAY, stiff, moist	
			12			Boring Terminated at 12' BSG	

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	J. Mizwicki
Geologist:	N. Struble
LUST Incident No:	

Water Depth While Drilling: 8' Water Depth After Drilling: NA

Project Number: 12-0646-102 Page 1

PIONEER ENVIRONMENTAL SERVICES, LLC

Boring Log

Boring No.: B-123

Site:
NWC West 63rd Street & South Halsted Street
Chicago , IL

Date Begin: 2/20/14

Date End: 2/20/14

PID (ppm)	Sample Recovery	Sample	Depth Feet	Soil Class	Lithology	Description	Remarks
				Topsoil		TOPSOIL	
						Sandy crushed stone, brick, and clay FILL, loose, moist	
<1	80%						No Odor, No Visual
				Fill			
			4				
<1	50%						No Odor, No Visual
						Boring Refusal at 7' BSG	
			8				
			12				

Completion Notes:
Hatched Pattern Denotes Sample Analyzed

Drill Rig:	Geoprobe 5410
Driller:	J. Mizwicki
Geologist:	N. Struble
LUST Incident No:	

Water Depth While Drilling: ND Water Depth After Drilling: NA

Project Number: 12-0646-102

PIONEER ENVIRONMENTAL SERVICES, LLC

Groundwater Monitoring Well Completion Diagram

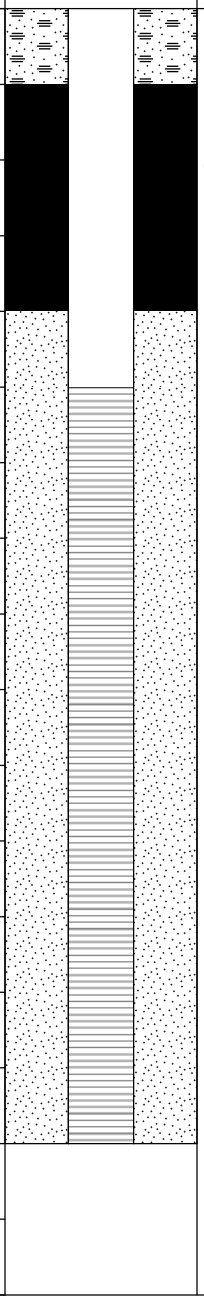
Site:
NWX W. 63rd St. & S. Halsted St.
Chicago , IL

Groundwater Monitoring Well ID:

MW-1

Project Number:	12-0646-102	Top of inner casing:	89.39 Feet
Geologist:	J. Mizwicki	Ground elevation:	--
Date Drilled:	2/19/14	Total Depth of Borehole:	15
Borehole Diameter:	2 Inches	Depth to Water:	8.52

Soil Description	Soil Class	PID	Depth
Crushed stone FILL Brown sandy clay FILL with crushed stone and brick, medium stiff, moist	Fill	<1	
	Fill	<1	4 8
Gray silty CLAY	CL	<1	12
Boring Terminated at 15' BSG			16



Notes: -- Indicates Data Not Available. Well Set At 15'

P:\Boring Logs\ Project Logs 2010 and newer\12-0646-102.wl2

PIONEER ENVIRONMENTAL SERVICES, LLC

Groundwater Monitoring Well Completion Diagram

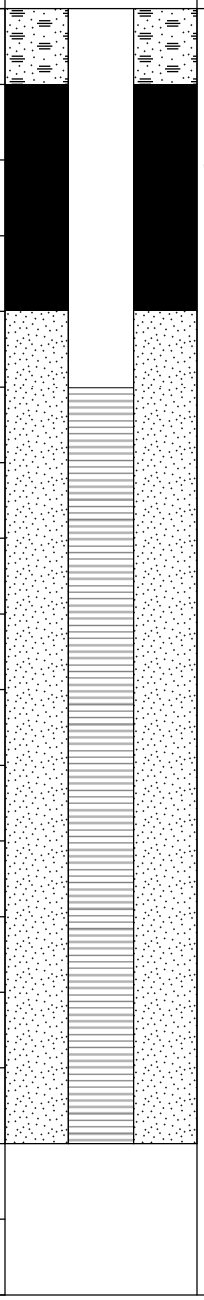
Site:
NWX W. 63rd St. & S. Halsted St.
Chicago , IL

Groundwater Monitoring Well ID:

MW-2

Project Number:	12-0646-102	Top of inner casing:	90.10 Feet
Geologist:	J. Mizwicki	Ground elevation:	--
Date Drilled:	2/19/14	Total Depth of Borehole:	15
Borehole Diameter:	2 Inches	Depth to Water:	4.85

Soil Description	Soil Class	PID	Depth
Black sandy asphalt FILL with crushed stone, medium stiff, moist	Fill	<1	
Black/brown sandy CLAY, medium stiff, moist	CL		4
Brown fine sandy SILT, loose, wet	SM	<1	8
Gray silty CLAY, stiff, wet	CL	<1	12
Boring Terminated at 15' BSG			16



Monitoring Well Completion

Annulus Material

- Concrete/Bentonite Surface Seal
- Medium Chip Bentonite
- 5' of 2" I.D. Schedule 40 PVC Riser
- Hydrated Benton Powder
- Threaded Joint
- #5 Quartz Sand
- 10' of 2" I.D. 0.01' Slot Schedule 40 PVC Screen

Notes: -- Indicates Data Not Available. Well Set At 15'

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PIONEER ENVIRONMENTAL SERVICES, LLC

Groundwater Monitoring Well Completion Diagram

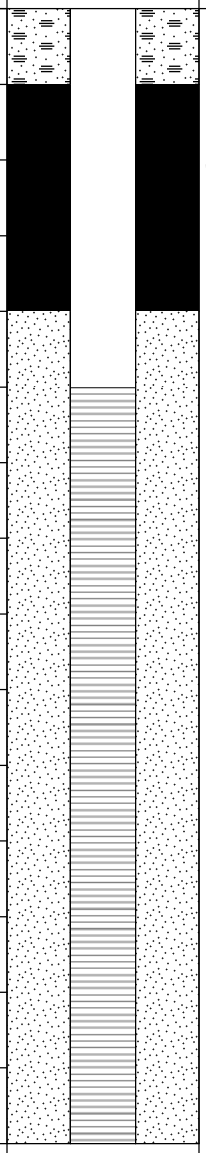
Site:
NWX W. 63rd St. & S. Halsted St.
Chicago , IL

Groundwater Monitoring Well ID:

MW-3

Project Number:	12-0646-102	Top of inner casing:	90.080 Feet
Geologist:	J. Mizwicki	Ground elevation:	--
Date Drilled:	2/19/14	Total Depth of Borehole:	15
Borehole Diameter:	2 Inches	Depth to Water:	5.51

Soil Description	Soil Class	PID	Depth	Annulus Material
TOPSOIL Brown sandy, silty clay FILL, loose, moist	Topsoil Fill	<1		Concrete/Bentonite Surface Seal Medium Chip Bentonite 5' of 2" I.D. Schedule 40 PVC Riser Hydrated Benton Powder
Crushed stone and brick FILL, loose, moist to wet at 7'	Fill	<1 <1	4 8	Threaded Joint #5 Quartz Sand
Gray silty CLAY	CL		12	10' of 2" I.D. 0.01' Slot Schedule 40 PVC Screen
Boring Terminated at 15' BSG			16	



Notes: -- Indicates Data Not Available. Well Set At 15'

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PIONEER ENVIRONMENTAL SERVICES, LLC

Groundwater Monitoring Well Completion Diagram

Site:
NWX W. 63rd St. & S. Halsted St.
Chicago , IL

Groundwater Monitoring Well ID:

MW-4

Project Number:	12-0646-102	Top of inner casing:	90.55 Feet
Geologist:	J. Mizwicki	Ground elevation:	--
Date Drilled:	2/19/14	Total Depth of Borehole:	15
Borehole Diameter:	2 Inches	Depth to Water:	4.82

Soil Description	Soil Class	PID	Depth	Annulus Material
ASPHALT	Asphalt			Concrete/Bentonite Surface Seal
Black sandy FILL, medium stiff, moist	Fill			Medium Chip Bentonite
Crushed stone FILL, medium stiff, moist	Fill	<1		5' of 2" I.D. Schedule 40 PVC Riser
Gray sandy CLAY, medium stiff, moist	CL		4	Hydrated Benton Powder
Brown fine sandy SILT, loose, moist to wet at 6'	ML	<1		Threaded Joint
		<1	8	#5 Quartz Sand
Gray silty CLAY, stiff, wet	CL		12	10' of 2" I.D. 0.01' Slot Schedule 40 PVC Screen
Boring Terminated at 15' BSG			16	

Notes: -- Indicates Data Not Available. Well Set At 15'

P:\Boring Logs\ Project Logs 2010 and newer\12-0646-102.wl2

PIONEER ENVIRONMENTAL SERVICES, LLC

Groundwater Monitoring Well Completion Diagram

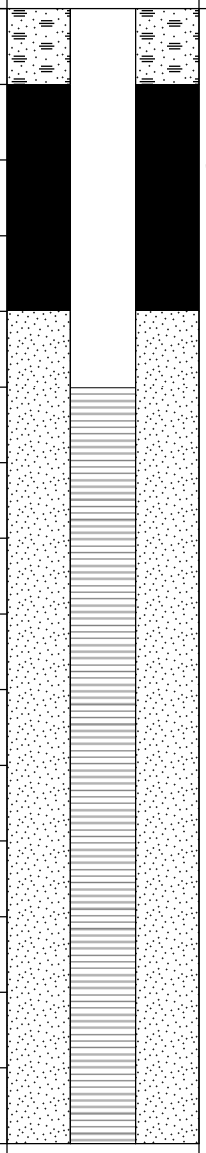
Site:
NWX W. 63rd St. & S. Halsted St.
Chicago , IL

Groundwater Monitoring Well ID:

MW-5

Project Number:	12-0646-102	Top of inner casing:	90.35 Feet
Geologist:	J. Mizwicki	Ground elevation:	--
Date Drilled:	2/19/14	Total Depth of Borehole:	15
Borehole Diameter:	2 Inches	Depth to Water:	4.65

Soil Description	Soil Class	PID	Depth	Annulus Material
ASPHALT with gravel base	Asphalt			Concrete/Bentonite Surface Seal
FILL with black gravel and white crushed gravel, loose, moist	Fill	<1		Medium Chip Bentonite 5' of 2" I.D. Schedule 40 PVC Riser Hydrated Benton Powder
Black/brown silty CLAY, hard, moist	CL		4	
Brown/gray fine sandy SILT, loose, moist to wet at 7'	SM	<1 <1	8	Threaded Joint #5 Quartz Sand
Gray silty CLAY, stiff, wet	CL		12	10' of 2" I.D. 0.01' Slot Schedule 40 PVC Screen
Boring Terminated at 15' BSG			16	



Notes: -- Indicates Data Not Available. Well Set At 15'

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PIONEER ENVIRONMENTAL SERVICES, LLC

Groundwater Monitoring Well Completion Diagram

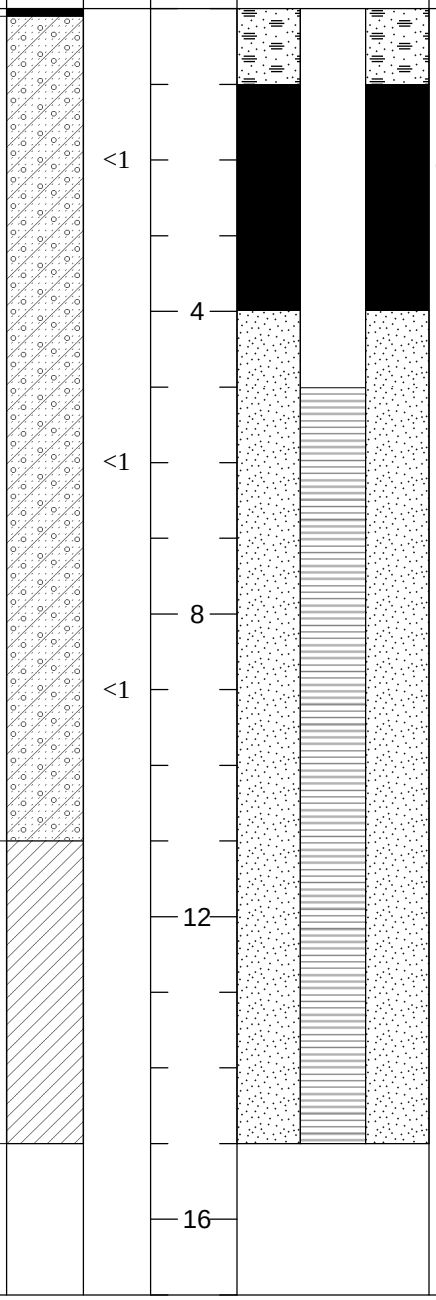
Site:
NWX W. 63rd St. & S. Halsted St.
Chicago , IL

Groundwater Monitoring Well ID:

MW-6

Project Number:	12-0646-102	Top of inner casing:	89.53 Feet
Geologist:	J. Mizwicki	Ground elevation:	--
Date Drilled:	2/19/14	Total Depth of Borehole:	15
Borehole Diameter:	2 Inches	Depth to Water:	9.10

Soil Description	Soil Class	PID	Depth	Annulus Material
TOPSOIL FILL with crushed stone, brick, and clay, loose, moist	Topsoil	<1		Concrete/Bentonite Surface Seal Medium Chip Bentonite 5' of 2" I.D. Schedule 40 PVC Riser Hydrated Benton Powder
	Fill	<1	4	Threaded Joint
		<1	8	#5 Quartz Sand
Gray silty CLAY, soft, wet	CL		12	10' of 2" I.D. 0.01' Slot Schedule 40 PVC Screen
Boring Terminated at 15' BSG			16	



Notes: -- Indicates Data Not Available. Well Set At 15'

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PIONEER ENVIRONMENTAL SERVICES, LLC

Groundwater Monitoring Well Completion Diagram

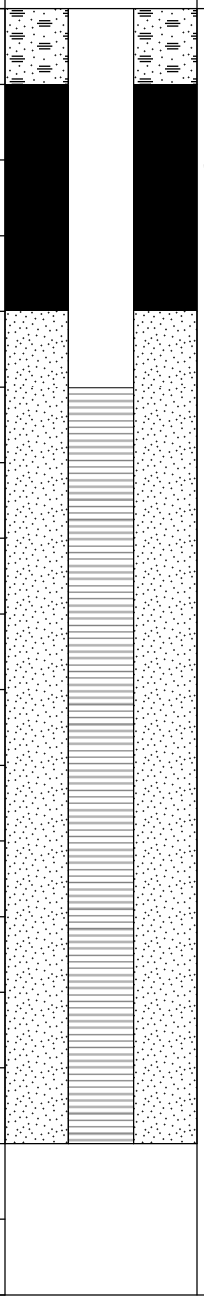
Site:
NWX W. 63rd St. & S. Halsted St.
Chicago , IL

Groundwater Monitoring Well ID:

MW-7

Project Number:	12-0646-102	Top of inner casing:	89.54 Feet
Geologist:	J. Mizwicki	Ground elevation:	--
Date Drilled:	2/19/14	Total Depth of Borehole:	15
Borehole Diameter:	2 Inches	Depth to Water:	7.80

Soil Description	Soil Class	PID	Depth	Annulus Material
TOPSOIL Black/brown silty clay FILL with crushed stone, medium stiff, moist	Topsoil Fill	<1		Concrete/Bentonite Surface Seal Medium Chip Bentonite 5' of 2" I.D. Schedule 40 PVC Riser Hydrated Benton Powder
Brown fine sandy SILT, medium dense, moist to wet at 8'	ML	<1	4 8	Threaded Joint #5 Quartz Sand
Gray silty CLAY, stiff, moist	CL	<1	12	10' of 2" I.D. 0.01' Slot Schedule 40 PVC Screen
Boring Terminated at 15' BSG			16	



Notes: -- Indicates Data Not Available. Well Set At 15'

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Suspect UST #2 test pit (suspect heating oil tank)



Suspect UST anomaly #4 test pit (no tank)

PIONEER ENVIRONMENTAL SERVICES, LLC	NWC West 63rd Street and South Halsted Street Chicago, Illinois	**PHOTOGRAPHIC LOG**
	Project Number: 12-0646-101	DATE: January 2013



Suspect UST anomaly #5 test pit (no tank)



Excavation/removal anomaly #2 - concrete trough

PIONEER ENVIRONMENTAL SERVICES, LLC	NWC West 63rd Street and South Halsted Street Chicago, Illinois	**PHOTOGRAPHIC LOG**
	Project Number: 12-0646-101	DATE: January 2013



Excavation/removal anomaly #6 test pit



Excavation/removal anomaly #7 test pit

PIONEER ENVIRONMENTAL SERVICES, LLC	NWC West 63rd Street and South Halsted Street Chicago, Illinois	**PHOTOGRAPHIC LOG**
	Project Number: 12-0646-101	DATE: January 2013



Suspect UST #2 test pit (suspect heating oil tank)



Suspect UST anomaly #4 test pit (no tank)



Suspect UST anomaly #5 (no tank)



Excavation/removal anomaly #6



Excavation/removal anomaly #7



Excavation/removal anomaly #2 - concrete trough

PIONEER ENVIRONMENTAL SERVICES, LLC	NWC West 63rd Street and South Halsted Street Chicago, Illinois	**PHOTOGRAPHIC LOG**
	Project Number: 12-0646-101	DATE: January 2013



Location of soil boring B-2



Site soils B-1 (0-12)



Site soils B-3 (0-12)



Site soils B-4 (0-12)



Advancing soil boring B-5



Site soils B-5 (0-12)

PIONEER ENVIRONMENTAL SERVICES, LLC	NWC West 63rd Street and South Halsted Street Chicago, Illinois	**PHOTOGRAPHIC LOG**
	Project Number: 12-0646-101	DATE: January 2013



Installation of monitoring well MW-1



Installation of monitoring well MW-3



Installing monitoring well MW-7



Soil from boring B-12



Soil from boring B-114



Soil from boring B-116

PIONEER ENVIRONMENTAL SERVICES, LLC	NWX W. 63rd St. & S. Halsted St. Chicago, Illinois	**PHOTOGRAPHIC LOG**
	Project Number: 12-0646-102	DATE: February 19, 2014

SUBSURFACE SOIL SAMPLING PROTOCOL

Subsurface samples are collected by employing various soil boring techniques based on the site-specific conditions. Soil borings may be advanced using any of the following methodologies: 1) a conventional Ingersol Rand™ 300B with hollow stem augers and split-spoon sampling techniques, a Bosch™ manual hydraulic/ percussive Macro-Core® barrel sampler, a truck-mounted Geoprobe 5410 hydraulic/percussive direct push sampling unit utilizing dual-tube sampling techniques, limited access Geoprobe hand-cart with a 2-inch Macro-Core® barrel sampler, and/or stainless steel hand augers. The specific methodologies employed are described in the report and listed on the soil boring log for each soil boring location (i.e., IR-300B, Bosch, Geoprobe 5410, Geoprobe Hand-Cart, or HA, respectively).

The soil sampling activities are conducted in accordance with American Society of Testing and Materials (ASTM) standards (ASTM:D 1586 or 6282). Soil samples are collected with a stainless steel hand auger, a split-spoon sampler, and/or a Macro-Core® sampler at 2-3 foot intervals depending on the specific method used. In the split-spoon sampling procedures, a split-barrel sampler having either a 2-inch or 13/16-inch outside diameter, an inside diameter of 1-3/8 or 7/8 inches, and a length of 2.5 or 3 feet is driven into the soil to collect a representative and undisturbed sample. In the Macro-Core® barrel sampling technique, a stainless steel barrel having a 2-inch outside diameter, an inside diameter of 1-1/2 inches, and a length of 2 or 3 feet is fitted with a dedicated disposable PVC liner and is driven into the soil to collect a representative and undisturbed sample.

The soil borings are sampled across continuous intervals from ground surface to the desired sampling depth, unless otherwise noted. The desired sampling depth is predicated on the specific conditions to be assessed, but may be restricted due to site-specific conditions. The drilling is directed by a Pioneer Environmental Services, LLC (Pioneer) Field Project Geologist/Engineer, who field screens auger cuttings and soil samples, prepares samples for laboratory analysis, logs geologic materials encountered during drilling, observes the drilling activities, and supervises sample collection.

After retrieval, soil samples obtained from each interval are immediately field screened for the presence of organic vapors along the exposed surface of the soil sample under ambient conditions. The samples are screened for volatile organic compounds (VOCs) and/or semivolatile organic compounds (SVOCs) using a MiniRAE™ 2000 handheld air monitor / photoionization detector (PID). This device is sensitive to a variety of petroleum/hazardous substances, including those typically targeted in subsurface investigations, and provide qualitative indications of the relative concentrations of organic contaminants trapped in the sample matrix.

After the sampling sleeve or split-spoon is opened and screened, and where elevated ambient screening results or other field indications of contamination are observed, an undisturbed portion of the sample from the portion of the interval displaying the highest indications of contamination is immediately selected for possible analysis. Where no elevated screening results are registered, the sample selected for analysis is chosen based on the nature of the REC being assessed, and the judgment of the Field Project Manager. The sample is immediately packed into laboratory provided glassware, or preserved in accordance with US EPA's SW-846 Method 5035, if submitted for VOC analysis. In accordance with Method 5035, when soil samples are analyzed for VOCs, one of two field sampling methods is used. 1) A measured portion of the sample is placed in an EnCore™ sampler, or equivalent, immediately after collection, with the appropriate container quantities and volumes determined by the scope of work and field conditions. The EnCore™ samplers, or equivalent, are delivered to the laboratory and preserved within 48 hours of sample collection. 2) A measured portion of the sample collected in the field (subsample - small diameter core) is transferred directly from the sampling device(s) to pre-labeled, pre-weighed, air-tight, laboratory-provided glassware with appropriate preservative (either sodium bisulfate-for samples with estimated VOC concentrations less than 200 ppb; or methanol-for samples with estimated VOC concentrations greater than 200 ppb) immediately after sample collection.

After initial screening and sample preparation, a portion of the remaining soil from the sample interval is logged according to its predominant geological characteristics, in accordance with the Unified Soil Classification System (USCS). The sample is further examined for the presence of odors and/or visual evidence of contamination (hydrocarbon or other), and a headspace reading is obtained from a portion of the sample that is allowed to equilibrate to the ambient atmospheric temperature in a dedicated Zip-lock™ bag for approximately 15 minutes,

SUBSURFACE SOIL SAMPLING PROTOCOL (cont.)

depending upon various factors) using a PID to obtain a maximum field reading. The soil classifications and the results of the headspace screening are described in the report and listed on the soil boring logs.

Any soil samples chosen for possible analysis are packed in appropriate containers, properly labeled, designated for possible analysis, and placed in a cooler on ice for storage immediately after sample packing/preservation has been completed to preserve the integrity of the sample during field activities. The samples are subsequently shipped in a cooler on ice via a delivery service overnight to an independent laboratory under standard chain-of-custody procedures, or are retrieved (on the same day or as soon as practicable) by the contract laboratory. Samples are selected based on the scope of work, field observations (i.e. visual/odor observations, elevated PID readings, etc.), other site-specific conditions, and the judgment of the Pioneer Field Project Geologist/Engineer, and are submitted for possible analysis of the appropriate compounds targeted in the investigation.

Drill cuttings and liquids generated are left at the borehole. All boreholes are decommissioned in accordance with applicable Illinois Department of Public Health guidelines. When required, these spoils are contained in 55-gallon Type 17H drums. Decontamination procedures for the drilling equipment consists of steam cleaning the augers after each boring using a biodegradable detergent and high-pressure steam rinse. The split-spoon samplers are decontaminated between each sample interval by washing in a solution of Alconox and water, and triple rinsing with clean heated water.

Any deviations to or modifications of this standard protocol will be described on a site by site basis.

GROUNDWATER MONITORING WELL INSTALLATION & SAMPLING PROTOCOL

Groundwater monitoring wells are typically installed using hollow stem auger borings. When spatial constraints dictate, wells may be installed using manual hand-augering techniques, or other acceptable practices. Soil sampling conducted during well installation is performed according to Pioneer's Subsurface Soil Sampling Protocol. The activities are directed by Pioneer's Field Project Geologist/Engineer, who logs geologic materials encountered, field screens auger cuttings and soil samples, and supervises the drilling activities and well installations. All drilling equipment and tools are steam-cleaned prior to mobilization onto the site, between boreholes, and upon completion of the drilling program. In accordance with Pioneer's Site Safety Plan, a PID or FID is used to monitor ambient air concentrations during sampling activities, and personal protective equipment is utilized by site personnel as necessary.

Wells are constructed of 2-inch or 1-inch I.D. schedule 40 flushjoint PVC riser and screen. The well materials are steam-cleaned prior to installation. When the depth of the well allows, the annular space surrounding the screen is backfilled with silica sand filter pack to a height not less than 1 foot above the top of the well screen, and a minimum of one foot of bentonite is placed above the filter pack to provide a low permeability seal. The remaining annulus is sealed with a cement/bentonite grout to the ground surface. Well screens are positioned to monitor selected areas of the water column based on site specific contaminant conditions. The position of the screened interval relative to the water table is determined based on the presence of water/moisture in the soil samples retrieved during sampling, and the water levels observed during/after the drilling activities. When possible, the top of the screen is positioned at least one foot above the estimated water level to account for fluctuations in the water table. All wells are completed with flush-mounted protective casings and locking well caps or "stickup" locking protective casings (depending upon site traffic) and secured with concrete at the surface. The majority of the wells are installed near suspected source areas to evaluate contaminant conditions and determine the direction of groundwater flow.

After installation, each well is developed using a new disposable Teflon© or high-density polyethylene (HDPE) bailer, or a stainless steel submersible pump. Approximately 5-10 well volumes of water are purged from each well, until the well water is visually clear of suspended sediments or until further yield cannot be achieved. If a stainless steel pump is used during well development, it is decontaminated between wells using a tri-sodium phosphate (TSP) wash and triple water rinse. An elevation survey is also conducted to obtain well casing elevations for calculating groundwater elevations. An arbitrary site datum of 100.00 feet is used as a benchmark to initiate the survey, and well casing elevations are measured to the nearest 0.01 feet relative to the established benchmark using standard surveying techniques.

Water levels are allowed to recharge to static conditions prior to the collection of groundwater samples or elevation data, to ensure the collection of accurate and representative data. Water level measurements are recorded to the nearest 0.01 feet using a Sonic Interface Probe, and are compared with the respective casing elevations to calculate water level elevations and apparent groundwater flow directions. Measurable thicknesses of free product are also recorded during well gauging activities when present. Sample collection is accomplished following well development using a new disposable Teflon© or HDPE bailer for each well. If wells have been previously developed/sampled and are being re-sampled, they are purged of 3-5 well volumes of water from each well, or until further yield cannot be achieved, using techniques similar to those for well development. The groundwater samples are carefully decanted into appropriately-sized and properly-preserved laboratory provided sample containers, and labeled to identify the sample number/ location, date, and sampling personnel. The samples are subsequently packed in a cooler on ice, and shipped overnight to an independent laboratory under standard chain of custody procedures for possible analysis of the appropriate COCs.

Quality Assurance/Quality Control (QA/QC) procedures for field sampling techniques are performed on a site-by-site basis per scope of work considerations and contract obligations. Any deviations to or modifications of this standard protocol will be described on a site-by-site basis.

Appendix D: Slug Test Data, Gradient Calculations, Equation S-29 Soil Saturation Limit Calculation

PIONEER ENVIRONMENTAL SERVICES, LLC

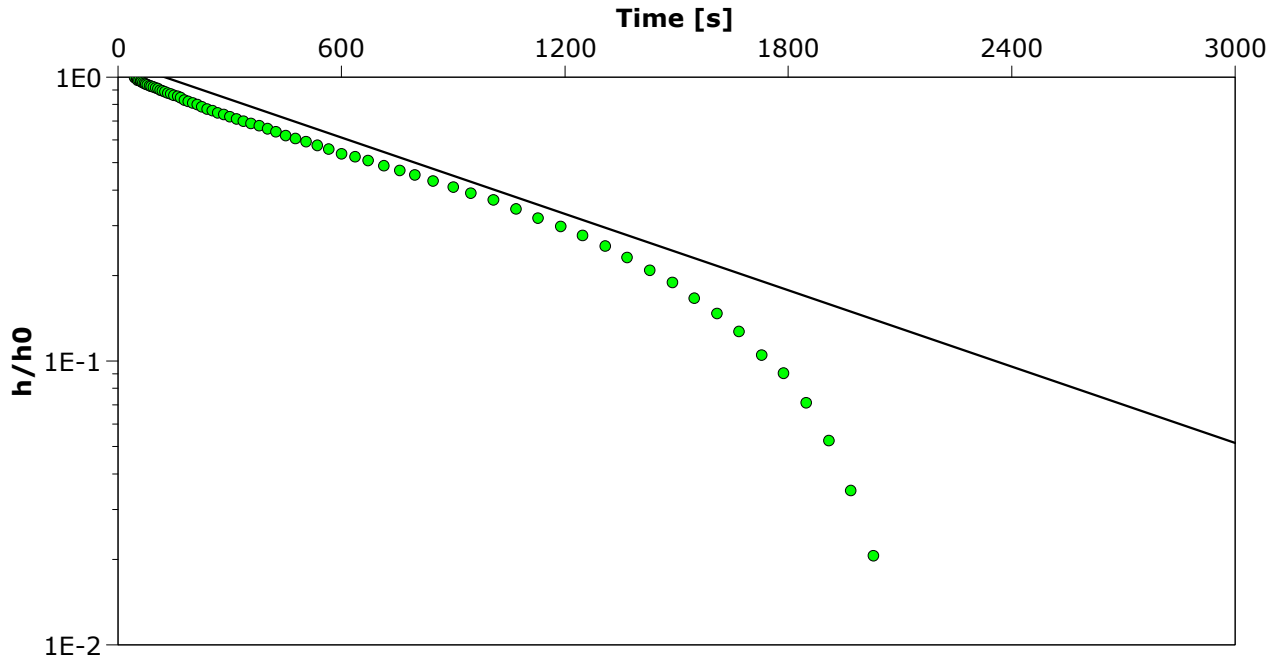
Slug Test Analysis Report

Project: Halsted Parkways Community Development Plan

Number: 12-0646-102

Client: Chicago Neighborhood Initiatives

Location: NWX of West 63rd St. & S. Halsted St.	Slug Test: Slug Test 1	Test Well: MW-5
Test conducted by: N. Struble		Test date: 3/11/2014
Analysis performed by: N. Struble	MW-5 Analysis	Date: 3/12/2014
Aquifer Thickness: 15.00 m		



Calculation after Bouwer && Rice

Observation well	K [m/s]	
MW-5	3.33×10^{-7}	

PIONEER ENVIRONMENTAL SERVICES, LLC

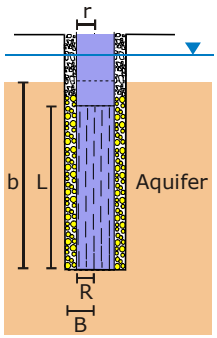
Wells

Project: Halsted Parkways Community Development Plan

Number: 12-0646-102

Client: Chicago Neighborhood Initiatives

Location: NWX of West 63rd St. & S. Halsted St.



	Name	Penetration	R [m]	L [m]	r [m]	B [m]	b [m]
1	MW-5	Partially	0.0254	3.048	0.0254	0.054	4.572

PIONEER ENVIRONMENTAL SERVICES, LLC

Slug Test - Water Level Data

Project: Halsted Parkways Community Development Plan

Number: 12-0646-102

Client: Chicago Neighborhood Initiatives

Location: NWX of West 63rd St. & S. Halsted St.	Slug Test: Slug Test 1	Test Well: MW-5
Test conducted by: N. Struble	Test date: 3/11/2014	
Water level at t=0 [m]: 0.68	Static water level [m]: 1.30	Water level change at t=0 [m]: 0.63

	Time [s]	Water Level [m]	WL Change [m]
1	45	0.675	-0.63
2	47.64	0.679	-0.626
3	50.46	0.683	-0.622
4	53.46	0.689	-0.616
5	56.64	0.692	-0.613
6	60	0.695	-0.61
7	63.6	0.699	-0.606
8	67.2	0.703	-0.602
9	71.4	0.705	-0.60
10	75.6	0.71	-0.595
11	79.8	0.713	-0.592
12	84.6	0.717	-0.588
13	90	0.72	-0.585
14	94.8	0.725	-0.58
15	100.8	0.728	-0.577
16	106.8	0.732	-0.573
17	112.8	0.736	-0.569
18	119.4	0.741	-0.564
19	126.6	0.745	-0.56
20	134.4	0.75	-0.555
21	142.2	0.756	-0.549
22	150.6	0.761	-0.544
23	159.6	0.766	-0.539
24	169.2	0.772	-0.533
25	178.8	0.78	-0.525
26	189.6	0.786	-0.519
27	201	0.793	-0.512
28	213	0.801	-0.504
29	225.6	0.81	-0.495
30	238.8	0.817	-0.488
31	253.2	0.824	-0.481
32	268.2	0.832	-0.473
33	283.8	0.84	-0.465
34	300.6	0.848	-0.457
35	318.599	0.855	-0.45
36	337.2	0.864	-0.441
37	357.6	0.872	-0.433
38	378.6	0.881	-0.424
39	400.8	0.89	-0.415
40	424.799	0.901	-0.404
41	450	0.912	-0.393
42	476.4	0.922	-0.383
43	504.6	0.931	-0.374
44	534.6	0.943	-0.362
45	566.4	0.954	-0.351
46	600.028	0.967	-0.338

PIONEER ENVIRONMENTAL SERVICES, LLC

Slug Test - Water Level Data

Project: Halsted Parkways Community Development Plan

Number: 12-0646-102

Client: Chicago Neighborhood Initiatives

	Time [s]	Water Level [m]	WL Change [m]
47	635.999	0.974	-0.331
48	671.999	0.985	-0.32
49	713.999	0.997	-0.308
50	755.999	1.009	-0.296
51	797.999	1.02	-0.285
52	846	1.033	-0.272
53	900	1.047	-0.258
54	947.999	1.059	-0.246
55	1008	1.072	-0.233
56	1067.999	1.089	-0.216
57	1128	1.104	-0.201
58	1188	1.117	-0.188
59	1247.999	1.13	-0.175
60	1308	1.145	-0.16
61	1368	1.159	-0.146
62	1428	1.173	-0.132
63	1487.999	1.186	-0.119
64	1548	1.20	-0.105
65	1607.999	1.212	-0.093
66	1667.999	1.225	-0.08
67	1727.999	1.239	-0.066
68	1787.999	1.248	-0.057
69	1847.999	1.26	-0.045
70	1908	1.272	-0.033
71	1967.999	1.283	-0.022
72	2028	1.292	-0.013
73	2088	1.305	0.00

http://www.epa.gov/athens/learn2model/part-two/onsite/gradient4plus-ns.html

EPA On-line Tools for Site Assessment Calculation

Hydraulic Gradient -- Magnitude and Direction

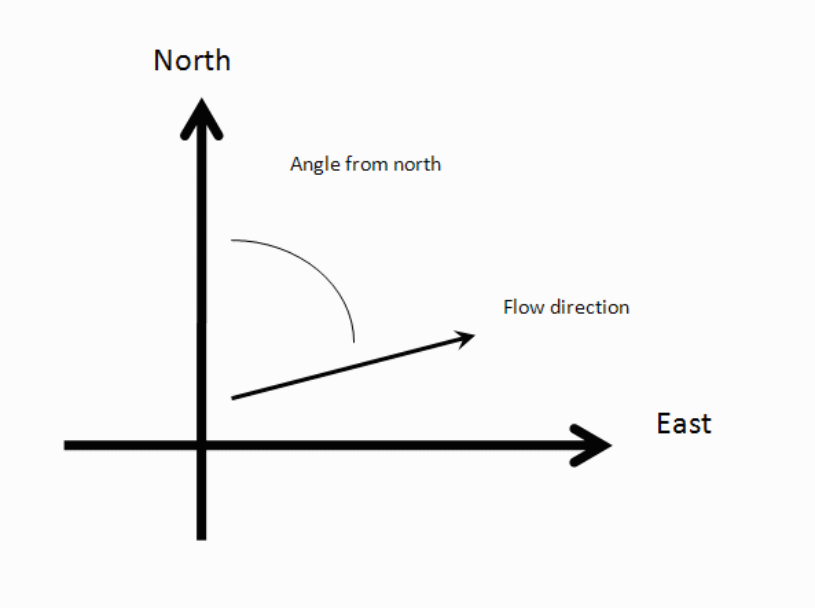
Gradient Calculation from fitting a plane to as many as thirty points

$a x_1 + b y_1 + c = h_1$
$a x_2 + b y_2 + c = h_2$
$a x_3 + b y_3 + c = h_3$
. . .
$a x_{30} + b y_{30} + c = h_{30}$

where (x_i,y_i) are the coordinates of the well and
h_i is the head

i = 1,2,3, ... , 30
The coefficients a, b, and c are calculated by a least-squares fitting of the the data to a plane

The gradient is calculated from the square root of $(a^2 + b^2)$ and the angle from the arctangent of a/b or b/a depending on the quadrant



Inputs

Example Data Set 1 | Example Data Set 2 | Calculate | Clear
Save Data | Recall Data | Go Back

Site Name: 63rd St. & S. Halsted
Date: 3/3/14 Current Date
Calculation basis: Head
Coordinates: ft

I.D.		x-coordinate	y-coordinate	head (ft)
1)	MW-1	700	628	80.87
2)	MW-2	310	448	85.25
3)	MW-3	1	1	84.57
4)	MW-4	218	100	85.73
5)	MW-5	378	244	85.7
6)	MW-6	670	222	80.73
7)	MW-7	726	60	81.74
8)				
9)				
10)				
11)				

12)				
13)				
14)				
15)				
16)				
17)				
18)				
19)				
20)				
21)				
22)				
23)				
24)				
25)				
26)				
27)				
28)				
29)				
30)				

Results

Number of Points Used in Calculation	7
Max. Difference Between Head Values	1.524
Gradient Magnitude (i)	0.007095
Flow direction as degrees from North (positive y axis)	96.36
Coefficient of Determination (R^2)	0.680

WCMS
Last updated on 01/10/2013

Equation S-29
Soil Saturation Limit

Contaminant of Concern	Mercury
(S) Solubility in Water App. C, Table E - mg/L	6.00E-02
Koc (Organic Carbon Partition Coef) - cm3/g or L/kg Chemical Specific Appendix C, Table E or Appendix C, Table I	8.70E+03
foc (Organic Carbon Content) - g/g Surface Soil = 0.006 Subsurface Soil = 0.002 or Site Specific	site specific 0.0195
Θw (Water Filled Porosity) - Lwater/Lsoil Surface Soil (top 1 meter) = 0.15, Subsurface Soil (below 1 meter) = 0.30 or Gravel = 0.20, Sand = 0.18, Silt = 0.16, Clay = 0.17 or Calculated	surface 0.015
Θa (Air Filled Porosity) - Lpore/Lsoil Surface Soil (top 1 meter) = 0.28, Subsurface Soil (below 1 meter) = 0.13 or Gravel = 0.05, Sand = 0.14, Silt = 0.24, Clay = 0.19 or Calculated	surface 0.28
ρb (Dry Soil Bulk Density) - kg/L or g/cm3 1.5 or Gravel = 2.0, Sand = 1.8, Silt = 1.6, Clay = 1.7 or Site Specific	1.5
H' (Henry's Law Constant) - unitless Chemical Specific Appendix C, Table E	4.51E-01
Soil-Water Partition Coefficient (Kd) - cm^3/g or L/kg **S-19** $K_d=K_{oc}*f_{oc}$:	8699.98
Soil Saturation Limit (Csat) - mg/kg **S-29** $C_{sat}=S/\rho_b*[(K_d*\rho_b)+\Theta_w+(H'*\Theta_a)$:	**522.004**
Tier 2 C_{sat} (ppm):	**522**

Appendix E: GPR Report, Test Pits Summary



December 26, 2012

Mr. David Bower
Pioneer Environmental Services
Chicago, IL

Subject: Ground Penetrating Radar (GPR) scanning at the Northwest corner of 63rd and South Halsted in Chicago, IL.

Lead Technician: John Lause
Ground Penetrating Radar Systems, Inc.
(312) 485-7725
John.Lause@gp-radar.com

Table of Contents

1. Overview of GPR
2. Equipment & Capabilities
3. Site Description
4. Inspection Methods
5. Findings
6. Radar Data
7. Qualifications
8. Closing

1. Overview of GPR

Ground Penetrating Radar (GPR) is a non-destructive testing technology that sends a series of radar pulses into the surface which reflect back off of anomalies below. As the radar pulses pass through the ground, the waves bend slightly when encountering a material with differing physical properties, particularly density and conductivity. Thousands of pulses are sent and received in a small area, and the received signals are combined to form a real-time image of what is in the ground. The various places where the radar waves bend are displayed as anomalies which can be interpreted as steel pipes, PVC conduits, underground storage tanks, voids, foundations, etc. One of the many advantages of the technology is the ability to locate non-metallic objects as well as determining depth to the object. GPR data acquisition is very fast and results are available immediately, allowing any discovered anomalies to be marked directly in the field. Although sometimes confused with X-Ray, GPR uses no radiation emissions and is perfectly safe to work with human presence in close proximity.



2. Equipment and Capabilities

Ground Penetrating Radar (GPR)

- GSSI SIR – 3000
  - GPRS uses a Geophysical Survey Systems Inc (GSSI) SIR-3000 Radar unit. This is the most advanced GPR available. It allows for onsite interpretation, as well as stores data for later processing. This equipment is self-calibrating, allowing more precise depth and location measurements.
  - GSSI is the world's leading GPR designer and manufacturer. Information can be found at www.geophysical.com
- 400 MHz GSSI antenna
  - For this project, a 400 MHz antenna was used with the GPR. This antenna allows data collection to a maximum depth of approximately eight feet, depending on soil conditions. At this site, the signal was effective to a depth of approximately six feet.
- Radan 6.6 software
  - Radan is the software produced by GSSI for processing all types of radar files. Version 6.6 is the most recent and up to date version available.
- Trimble GeoExplorer GPS Unit
  - The GeoExplorer is a handheld GPS unit which can be used to map anomalies detected during a GPR survey. The system is capable of sub-meter accuracy when the satellite signals are numerous and clear enough. The accuracy will be decreased when the signals are blocked or scattered by obstructions.

3. Site Description

This scanning was conducted over a ten acre plot at the Northwest corner of 63rd and Halsted in Chicago. The east boundary is South Halsted, the south boundary is 63rd St. and the west and north boundaries are 63rd Parkway/South Halsted Parkway. The site is currently a vacant lot. The areas inside the boundaries were scanned for underground storage tanks the primary focus of scanning. The site consisted of old building foundations visible from the surface and elevated concrete pads. In addition to the foundations, much of the areas were asphalt parking lots or grass lots along roads and between asphalt areas.

Date: Wednesday, Thursday, Friday, Saturday December 19, 20, 21, 22, 2012

4. Inspection Methods

The primary purpose of this scanning was to locate any evidence of the presence of underground storage tanks or other significant anomalies. In addition to the primary purpose, utilities, foundations or excavations were marked as well.

The inspection method for this project consisted of conducting a GPR scan of the designated areas. Scans were taken in a grid pattern, with adjacent scans no more than three feet apart. Whenever a grid pattern was unable to be completed the most complete scanning was done. This was done along buildings, trees, curbs, obstructions or any area where the equipment was too large to operate.

The GPR detects differences in physical properties such as conductivity and density; metallic objects are most clearly visible, but it can also detect PVC, concrete (especially reinforced), and often old excavations if the backfill is different from native soil.

As each scan progresses, the GPR presents a sub-surface image in real time, allowing USTs, utilities, foundations, and other significant anomalies to be marked out directly in the field. Whenever an anomaly relevant to this project was detected, its location was marked directly on the surface.

5. Findings

The site was scanned to locate any evidence of underground storage tanks and other significant anomalies which could be underground storage tanks, foundations, excavations or utilities.
The following is broken done into three groups. The locations of these anomalies can be found on the attached Google Earth KMZ file. They are labeled as the following UST's, Removal and Unknowns.

1. UST's or areas that are consistent with that of an underground storage tank based upon the data at the site. (8 Locations)
2. Removal/Excavations or areas that are consistent with a tank grave or possible removal or possible excavation based upon the data at the site. (7 Removals)
3. Unknowns or areas that were a visible concern, consistent with a tank anomaly but had some utility or other unknown associated with it, heavily disturbed soil or debris and based upon data at the site a determination could not be made, further investigation may be required. (13 Unknowns)

A brief description of each area found below.
8 Underground Storage Tanks (UST's) locations and sizes can be found on Google Earth File. These images are colored Red-Brown

1. Data at site was consistent with that of an underground storage tank and the depth was three feet. The size of the anomaly was approximately 6 feet by 11 feet.
2. Data at site was consistent with that of an underground storage tank and the depth was three feet. The size of the anomaly was approximately 6 feet by 12 feet.
3. Data at site was consistent with that of an underground storage tank and the depth was two feet. The size of the anomaly was approximately 5 feet by 8 feet.
4. Data at site was consistent with that of an underground storage tank and the depth was three feet. The size of the anomaly was approximately 6 feet by 11 feet.
5. Data at site was consistent with that of an underground storage tank and the depth was five to five and a half feet. The size of the anomaly was approximately 8 feet by 8.5 feet.
6. Data at site was consistent with that of an underground storage tank and the depth was three to three and a half feet. The size of the anomaly was approximately 7 feet by 7.5 feet.

7. Data at site was consistent with that of an underground storage tank and the depth was four feet. The size of the anomaly was approximately 4 feet by 7 feet.
8. Data at site was consistent with that of an underground storage tank and the depth was four feet. The size of the anomaly was approximately 6 feet by 9 feet.

7 Removal/Excavation areas were found, locations and sizes can be found on Google Earth File.

1. In this area the data was consistent with a removal/excavation of possible underground tank. Soil anomalies started at a depth of two feet and proceeded to a depth of five feet. The size of the anomaly was approximately 6 feet by 11 feet.
2. In this area the data was consistent with a removal/excavation of possible underground tank. Soil anomalies started at a depth of 9 inches and the soil was disturbed here. The size of the anomaly was approximately 3 feet by 5 feet.
3. In this area the data was consistent with a removal/excavation of possible underground tank. There appeared to be a soil change at four feet in depth and the soil was disturbed from the surface down, possible backfill of another material. The size of the anomaly was approximately 19 feet by 45 feet.
4. There was a pipe on the building in the North West corner, this piping traveled north for approximately three feet and lead to an area of possible removal/excavation based upon the data at the site. Soil anomalies started at a depth of two feet. The size of the anomaly was approximately 6 feet by 12 feet.
5. In this area the data was consistent with a removal/excavation of possible underground tank. There are appeared to be a soil change at approximately three to four feet, possible backfill occurred here. The size of the anomaly was approximately 16 feet by 50 feet.
6. In this area the data was consistent with a removal/excavation of possible underground tank. Soil anomalies started at a depth of two feet. The size of the anomaly was approximately 6 feet by 6 feet.
7. In this area the data was consistent with a removal/excavation of possible underground tank. Soil anomalies started at the surface and went to a depth of four feet here there appeared to be a soil change here. The size of the anomaly was approximately 8 feet by 11 feet.

13 Unknown areas were found, locations and sizes can be found on Google Earth File.

1. This area had many soil anomalies and heavily disturbed soil, could be possible excavation. There appeared to be a storm drain line running through the area. There is also another unknown line on the east side that goes to the street. The size of the anomaly was approximately 16 feet by 40 feet.
2. This area had a tank like anomaly but is in the road near several manholes, this area could be possible storm basin. Its depth was 4 feet. The size of the anomaly was approximately 4 feet by 5 feet.
3. This area had a tank like anomaly, there is a pipe going out of the north side which traced to a storm catch basin manhole. Its depth was 4 feet. The size of the anomaly was approximately 4 feet by 5 feet.
4. This area was heavily disturbed soil, which could result from excavation or debris left in ground. Disturbances started at a depth of two feet. The size of the anomaly was approximately 15 feet by 20 feet.
5. This area was heavily disturbed soil, which could result from excavation or debris left in ground. Disturbances started at a depth of three feet. The size of the anomaly was approximately 6 feet by 18 feet.
6. This area was heavily disturbed soil, which could result from excavation or debris left in ground. Disturbances started at a depth of two feet.
7. There appeared to be an object at two feet in depth. The object was not consistent with an underground storage tank. The object is thought to be a possible buried concrete pad.
8. A visible caved and overgrown area was noticed. There was a storm line near running east to west. The size of the anomaly was approximately 7 feet by 12 feet.
9. This is an area of disturbed soil; possible old utilities are located here. The depths of anomalies were 4 feet.
10. In this area there was a visibly caved in concrete pit/basin. The size of the anomaly was approximately 4.5 feet by 7 feet.
11. This area appeared to be an excavation with a soil change at 5 to 6 feet in depth. Several utilities were in the area and the area may be due to their installation. The size of the anomaly was approximately 8 feet by 23 feet.

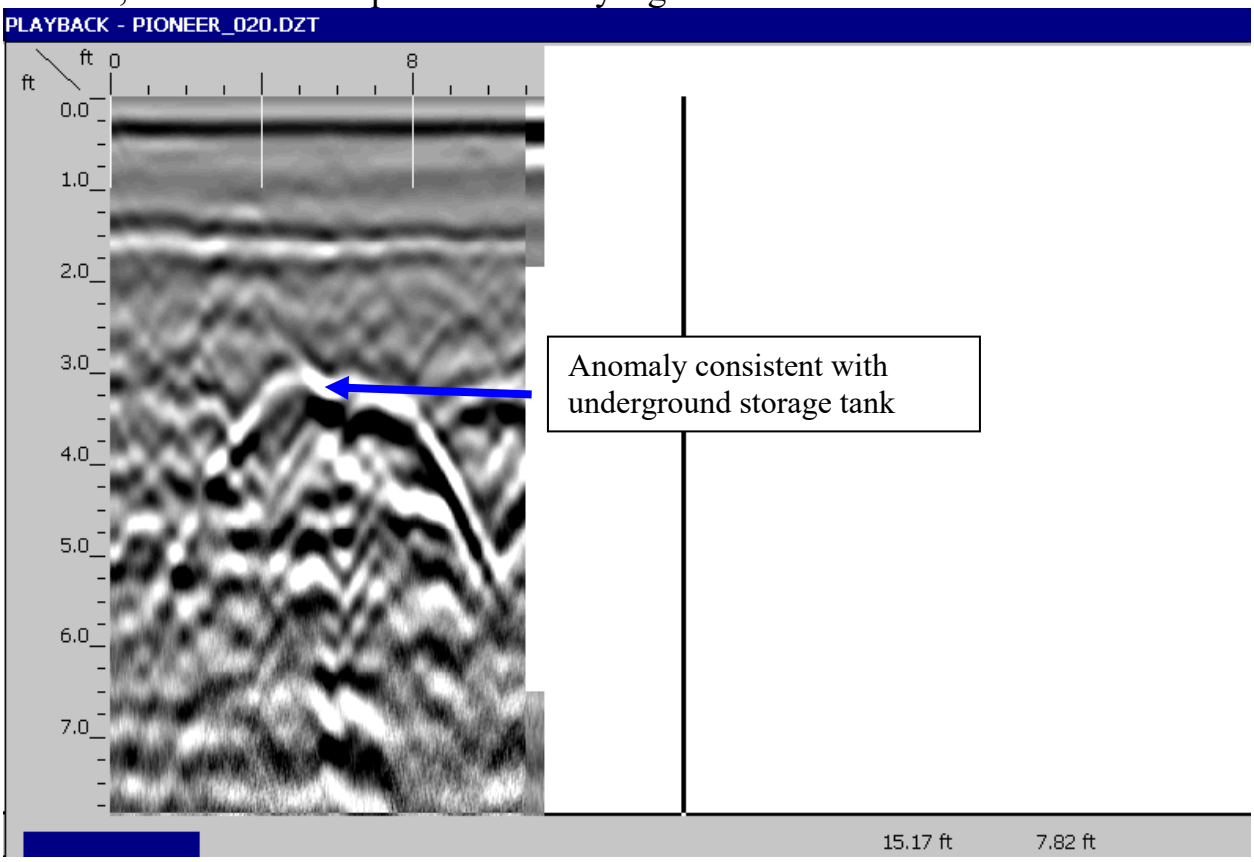
Included in the Unknown section of the Google Earth File, Tank Like Anomaly

In this area there was a tank like anomaly at four feet in depth. There also appeared to be a storm line running directly through/in the area of the anomaly. Based upon this area is thought to have connection with storm system. Further

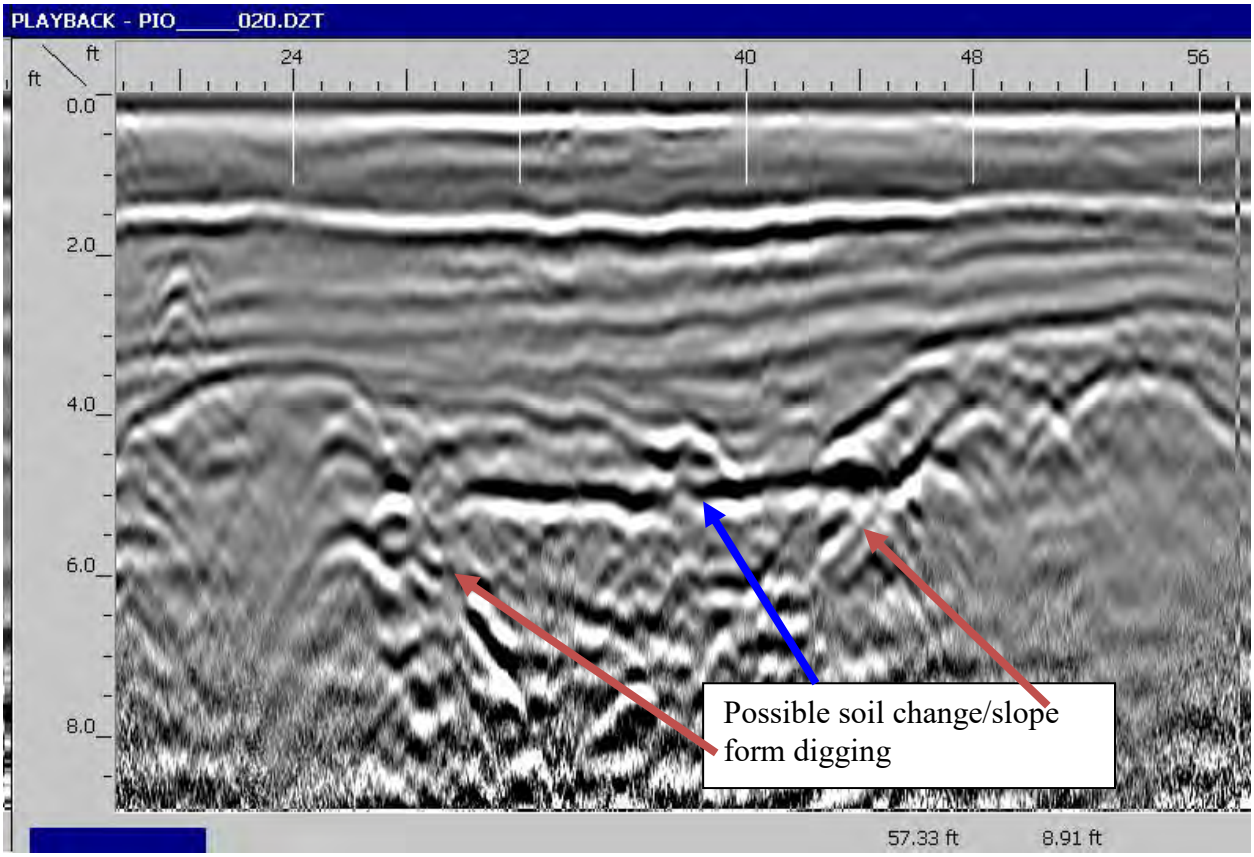
investigation may be required. The size of the anomaly was approximately 7 feet by 8 feet.
In this area there was a tank like anomaly at four feet in depth. There also appeared to be a storm line running directly through/in the area of the anomaly. Based upon this area is thought to have connection with storm system. Further investigation may be required. The size of the anomaly was approximately 5 feet by 6 feet.

6. Radar Data

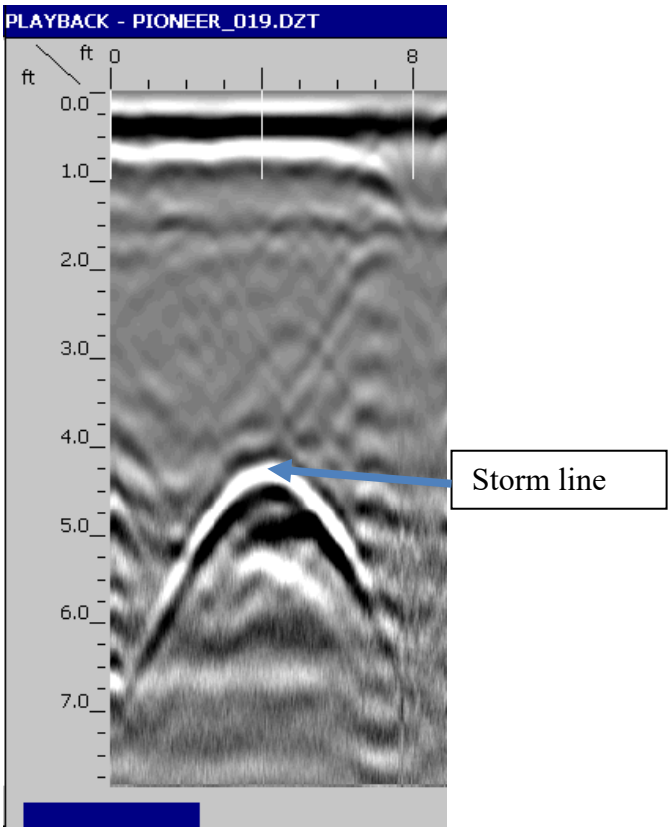
This section includes representative radar data from scans taken during the scan of this site, as well as an explanation of any significant features.



This data image came from the site and is representative of an underground storage tank at the site. In this image an anomaly consistent with that of an underground storage tank can be seen at approximately three feet in depth.



This data image came from the site and is consistent with that of a possible removal/excavation. A possible soil change occurs at approximately 5 feet in depth.



This data image taken from the site is consistent with that of an underground pipe, in this case a storm drain line. The anomaly can be seen at approximately 4 to 4.5 feet in depth.

7. Qualifications

Ground Penetrating Radar Systems, Inc. (GPRS) was started in October 2001, by Matt Aston. The original intention in starting this business was to give contractors a reliable way to "see" into concrete slabs in order to avoid cutting embedded electrical conduits and critical reinforcing steel. While GPRS performs this work on a regular basis, there are many other applications in which we use Ground Penetrating Radar to benefit our customer base.

Since our inception, GPRS has completed over four thousand jobs. We are very proud of our performance. We have had a reported incident of error on less than one percent of the projects we have completed. Our customers have expressed a high level of satisfaction, as evidenced by the fact that in 2010, nearly 75% of our business was either repeat or referred by our customers. GPRS has been involved on projects ranging from small residential jobs to major construction projects with values in excess of $1 Billion.

John Lause has been a certified GPR technician since January of 2011. In 2011 he successfully completed over 200 jobs in which he was the primary technician.

8. Closing

Thank you for the opportunity to serve you on this project. I hope this report has answered all the questions you had regarding this survey. However if there is anything you have questions about or feel was omitted, please do not hesitate to call.

Thank you,

John Lause
Ground Penetrating Radar Systems
312-485-7725 Phone
866-851-8247 Fax
John.Lause@gp-radar.com

PIONEER ENVIRONMENTAL SERVICES, LLC
700 N Sacramento Blvd. Suite 101
Chicago IL 60612
773.722.9200 Phone - 773.722.9201 Fax
www.pioneerEES.com

Test Pit Summary - Suspect UST Locations

Suspect UST #	Depth (GPR)	Anomaly Size (surface)	Depth of Test Pit	Findings
1	3'	6' x 11'	4'	No tank found. Approximately 2"-thick of buried concrete was discovered at 3' BSG and possible old limestone foundation/block. Sandy clay below.
2	*3'*	*6' x 12'*	*2'*	*Tank was found at this location buried approximately 2' below the surface and estimated to be a 2,000-gallon UST (64" x 12') and contained 46" of black oil, which appeared to be heating oil.*
3	2'	5' x 8'	3'	No tank found. A concrete pier/footing and buried scrap (2' x 2' piece sheet metal and 4' section of 2"-dia. steel piping) found at 2' BSG. Further excavation at the edge of the footing went to 3' where footing appeared to stop. Rubble and sand were encountered at the edge of the footing.
4	3'	6' x 11'	4.5'	No tank found. Sand and clay were discovered below the asphalt and stone surface. Approximately 8"-dia. clay tile discovered at 4.5' BSG.
5	5'	8' x 8.5'	6'	No tank found. Gravel (CA-6 and 3" stone) found at 4' BSG and fill material (rubble and bricks) encountered between 4-5' BSG. Clay/ sand found at 5' BSG.
6	3.5'	7' x 7.5'	4'	No tank found. Gravel (CA-6 and 3" stone) found at 4' BSG and fill material (rubble and bricks) encountered between 4-5' BSG. Clay/ sand found at 5' BSG
7	4'	4' X 7'	4'	No tank found. Bricks and rubble present directly below the surface, and 2' x 2' scrap metal was found. Clay/sand was found at 4' BSG.
8	*4'*	*6' x 9'*	*6'*	*No tank found. Approximately 2"-thick of buried concrete was found at 3' BSG. Minor stained soils and slight odor were observed directly below the concrete, followed by clay/sand.*

Notes: BSG = below surface grade
*See Figure 2 - GPR Anomalies; refer to color codes on figure for each anomaly classification

Test Pit Summary - Possible Removal/Excavation Locations

Possible removal/ excavation #	Depth (GPR)	Anomaly Size (surface)	Depth of Test Pit	Findings
1	2-5'	6' x 11'	4'	Area contained mainly rubble (partial concrete wall, bricks, asphalt and pieces of concrete), and limestone found at 3' BSG. Silty sand found below limestone to 4' BSG
2	*9"*	*3' x 5'*	*1'*	*A concrete trough was discovered below tile surface that was on a concrete slab. The trough was 2' x 1' and appeared to be 1' deep, and led to a 4' x 4' area that was also 1' deep and had a metal lid. The trough and 4' x 4' pit were filled with water and also contained debris (broken concrete) and sludgy material was found at the bottom. It should be noted that heavy petroleum odors were found in a nearby soil boring (B-10).*
3	4'	19' x 45'	4'	6" asphalt followed by 1' of CA-6 and 2' of 3" stone was found, underlain by fine sand and some groundwater.
4	*2'*	*6' x 12'*	*3'*	*Tank was found at approximately 2' BSG and estimated to be 1,500-gallon heating oil UST (64" x 9') and contained 51" of product.*
5	3-4'	16' x 50'	4.5'	4' of gravel (CA-6 then 3" stone), followed by black/organic soils and debris (mostly wood) to 4.5' BSG. Some groundwater was encountered.
6	2'	6' x 6'	3'	Concrete block and a concrete pier/footing were discovered 2' BSG. Rubble and sand were found at the edge of the footing to 3' BSG.
7	4'	8' x 11'	4'	Gravel was encountered below surface, followed by bricks and rubble. Clay/sand was encountered at 4' BSG.

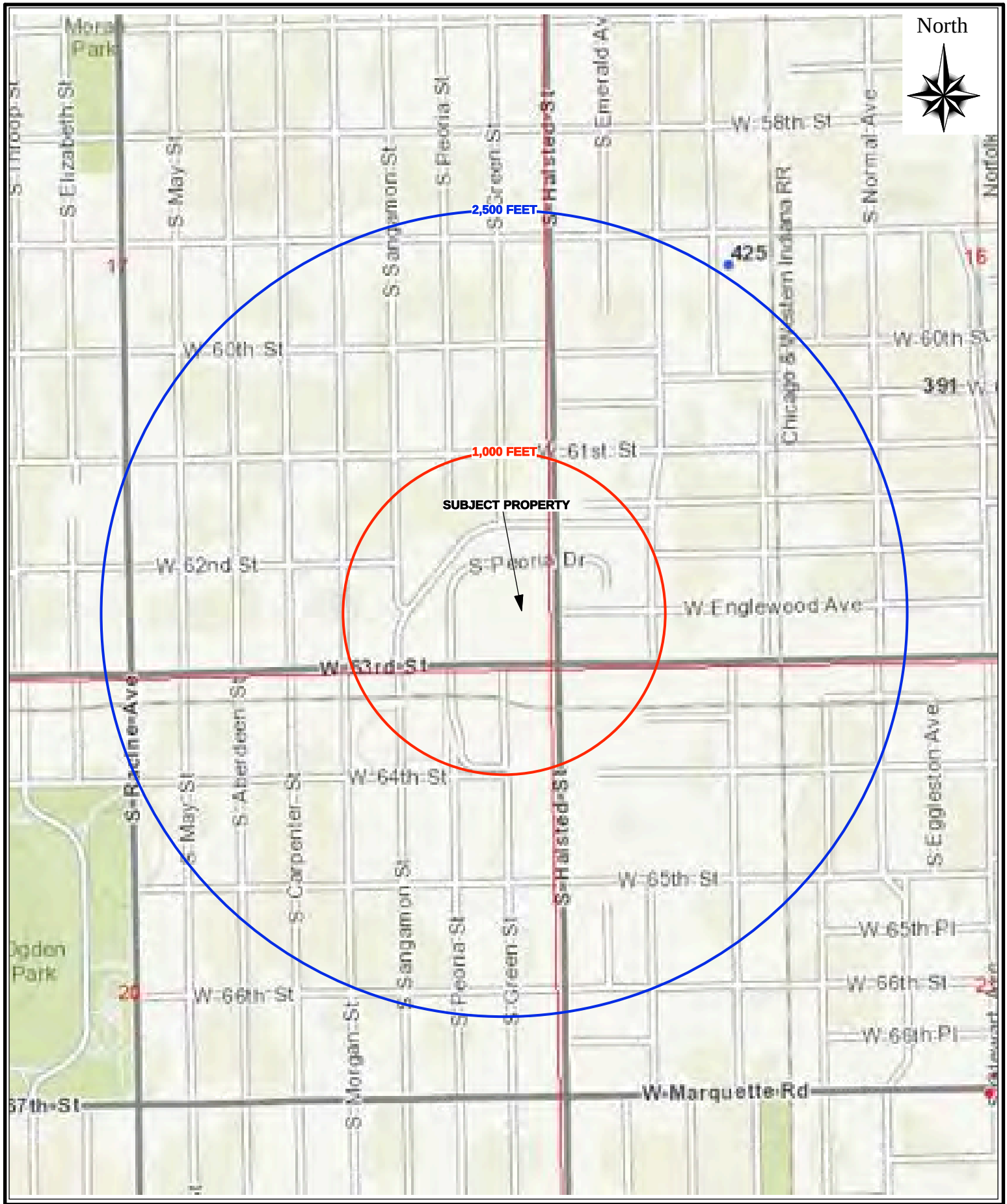
Notes: BSG = below surface grade
*See Figure 2 - GPR Anomalies; refer to color codes on figure for each anomaly classification

Test Pit Summary - Unknown Anomaly Locations

Unknown anomalies #	Depth (GPR)	Anomaly Size (surface)	Depth of Test Pit	Findings
1	not reported	16' x 40'	3'	Remnant foundation discovered along east and south side of area marked in GPR survey, and the bottom of the foundation was found at 3' BSG. The foundation was filled with bricks, cinderblocks and other rubble. A second test pit was dug in this area and the end of the foundation was found at the west end of the location that was marked. It should be noted that Pioneer did not dig test pits on the northern portion of the marked area due to the proximity of a utility line.
2	4'	4' x 5'	N/A	No test pit excavated-anomaly located in public thoroughfare of South Peoria Street
3	4'	4' x 5'	N/A	No test pit excavated-anomaly located in public thoroughfare of South Peoria Street
4	2'	15' x 20;	4'	Disturbed soils were discovered, followed by bricks and rubble. Soils were consistent with typical urban fill.
5	2'	6' x 18'	4.5'	Bricks and rubble were found from 0-3' BSG. At 3'-4.5' there was a change to gravel and other rubble.
6	2'	not reported (large area on northeast portion of site)	5'	The test pit was dug on the eastern portion of this area. Disturbed soils were found from 0-5' BSG, followed by clay/sand. At the southern portion of the test pit, a concrete wall was found that was 16" thick and appeared to continue deeper than 5' BSG. Concrete wall ran east/west and could be and old foundation.
7	2'	not reported (located within unknown anomaly #6)	4.5'	An approximate 2" layer of concrete was found at 1.5' BSG, followed by disturbed soils to 4.5' BSG, underlain by clay/sand.
8	not reported	7' x 12'	5'	Asphalt and CA-6 were encountered to 5' BSG, followed by clay/sand. Concrete was discovered at 32" BSG at the east edge of the area marked in the GPR survey, approximately 1' thick, and went beyond the width of the excavation, approximately 4' wide. Pioneer dug three feet beyond the area marked in the GPR and the concrete continued. Possibly an old foundation the west edge of the concrete appeared to be in line with the houses to the north on Green St.
9	4'	not reported	1'	An old brick foundation and concrete footing were discovered from 0.5'-1' BSG. This ran the entire length of the area marked in the GPR. Additionally, what appeared to be a metal I-beam was found on the eastern portion of the foundation. The excavator could not go through the foundation, therefore, no further investigation was performed.
10	not reported	4.5' x 7'	4'	Bricks, cinderblock and other rubble were found in what appeared to be a remnant foundation. The test pit was dug to 4' and bricks and rubble continued farther down. On the western portion of the foundation wall, an 8"-dia. ductile iron pipe sewer was found, which angled and appeared to go into the foundation
11	5'-6'	8' x 23'	N/A	No test pit excavated-anomaly located in existing sidewalk.
12	4'	7' x 8'	N/A	No test pit excavated-anomaly located in existing parkway.
13	4'	5' x 6'	N/A	No test pit excavated-anomaly located in existing parkway.

Notes: BSG = below surface grade
*See Figure 2 - GPR Anomalies; refer to color codes on figure for each anomaly classification

Appendix F: Potable Well Survey Maps



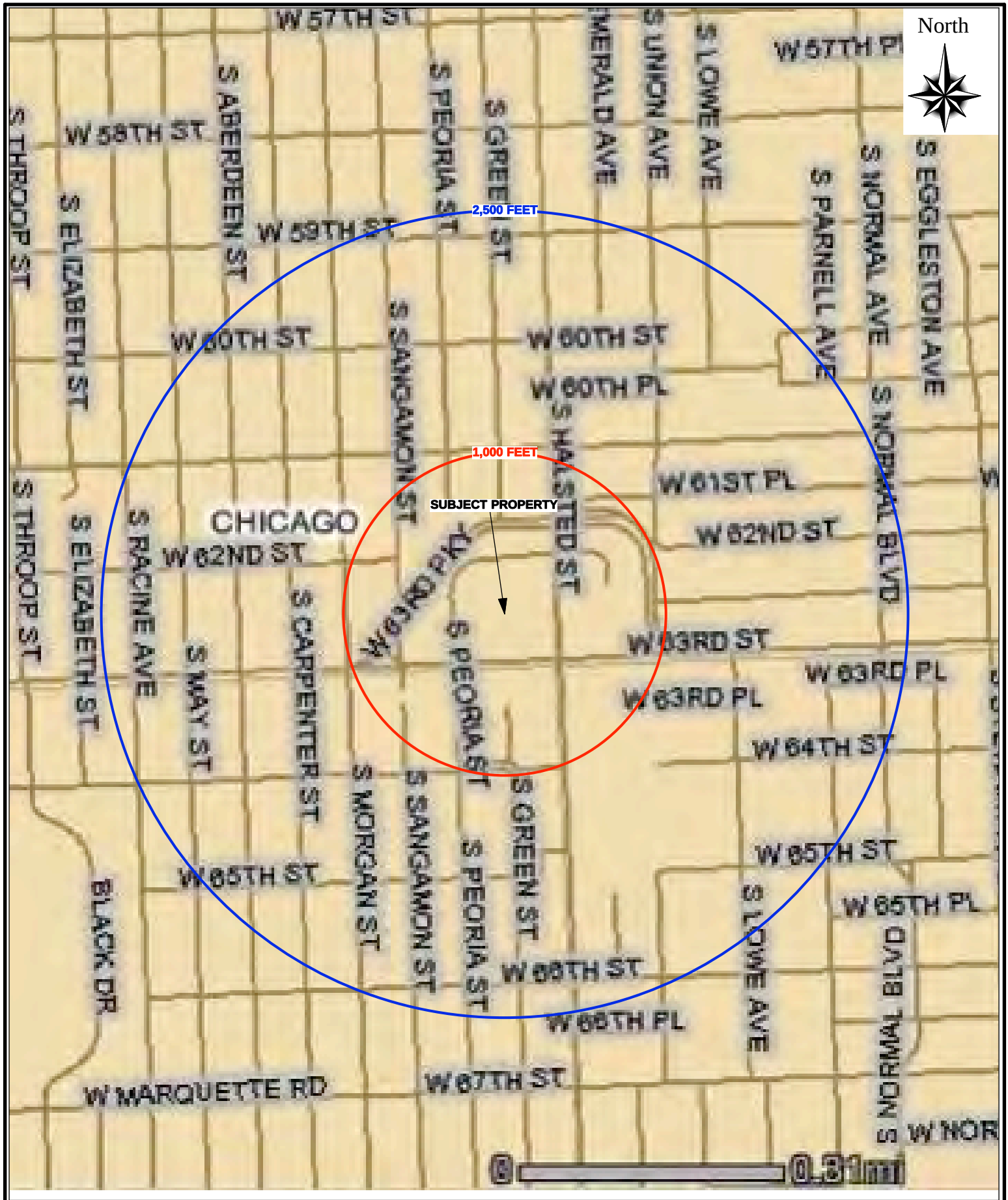
PIONEER
ENGINEERING & ENVIRONMENTAL SERVICES

Legend:

- Water
- Dry
- Engineering
- Stratigraphic
- Observation
- Mineral Test
- Outcrop
- Mine-related
- Hazardous Waste or Leaking Tank

Date: April 2014
Checked by: Natalie Struble
Job No.: 12-0646-102

ISGS MAP
NWX W. 63rd St. & S. Halsted Street
Chicago, IL



PIONEER ENGINEERING & ENVIRONMENTAL SERVICES

Legend:

ISGS Wells	Active	Inactive	CWS Wells		
Non-CWS Wells	Abandoned	Planned			

Date: April 2014
Checked by: Natalie Struble
Job No.: 12-0646-102

SWAP MAP
NWX W. 63rd St. & S. Halsted Street
Chicago, IL

Appendix G: Laboratory Analytical Reports

SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

April 01, 2014

Workorder: 1402C13

Natalie Struble
Pioneer Environmental Services LLC
700 N. Sacramento Blvd., Suite 101
Chicago, IL 60612

TEL: (773) 722-9200
FAX: (773) 722-9201
RE: 63rd and Halsted

Dear Natalie Struble:

Suburban Laboratories, Inc. received 1 sample(s) on 2/26/2014 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation on, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Kelly Culhane

Kelly Culhane
Project Manager
708-544-3260 ext 212
kelly@suburbanlabs.com

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Case Narrative

Client: Pioneer Environmental Services LLC
Project: 63rd and Halsted
WorkOrder: 1402C13
Temperature of samples upon receipt at SLI: 3 C

Date: April 01, 2014
PO #:
QC Level:
Chain of Custody #: 119128

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- In Laboratory: EPA recommends this analyte be analyzed "immediately" (e.g., tests that should be performed in the field within 15 minutes of collection). Analytes with "immediate" hold times are analyzed as soon as possible upon receipt by the laboratory.
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

Workorder Specific Comments:

Sulfide Reactive and Cyanide Reactive
1402C13-001A
G = Samples subcontracted to STAT Analysis Corp. (IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP Lab Code 101202) , for some of the analysis requested.

Client:	Pioneer Environmental Services LLC	**Date:**	April 01, 2014
Project:	63rd and Halsted	**PO #:**	
WorkOrder:	**1402C13**	**QC Level:**	
Temperature of samples upon receipt at SLI: 3 C		**Chain of Custody #:**	119128

This report supersedes the report dated 03/06/2014

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: April 01, 2014
Workorder: **1402C13**

Client Sample ID: **B-116 (4-8)**
Lab ID: 1402C13-001 **Date Received:** 02/26/2014 2:00 PM

Matrix: SOIL
Collection Date: 02/26/2014 8:40 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
CYANIDE, REACTIVE		Method:				Analyst: kac	
Reactive Cyanide	<1.0	1.0	G	mg/Kg	1	02/28/2014 12:00 AM	R44561
SULFIDE, REACTIVE		Method:				Analyst: kac	
Reactive Sulfide	<10.0	10.0	G	mg/Kg	1	02/28/2014 12:00 AM	R44561

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Qualifier Definitions

WO#: **1402C13**
Date: **4/1/2014**

Qualifiers:

*/x	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
c	Analyte not in SLI scope of accreditation
E	Estimated, detected above quantitation range
G	Refer to case narrative page for specific comments
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limit (QL)
N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit
P	Present
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits

SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

March 31, 2014

Workorder: 1403C72

Natalie Struble
Pioneer Environmental Services LLC
700 N. Sacramento Blvd., Suite 101
Chicago, IL 60612

TEL: (773) 722-9200
FAX: (773) 722-9201
RE: 63rd and Halsted - 12-0646-102

Dear Natalie Struble:

Suburban Laboratories, Inc. received 1 sample(s) on 3/27/2014 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation on, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Kelly Culhane

Kelly Culhane
Project Manager
708-544-3260 ext 212
kelly@suburbanlabs.com

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Case Narrative

Client: Pioneer Environmental Services LLC
Project: 63rd and Halsted - 12-0646-102
WorkOrder: 1403C72
Temperature of samples upon receipt at SLI: 1 C

Date: March 31, 2014
PO #: 12-0646-102
QC Level:
Chain of Custody #: 113913

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- In Laboratory: EPA recommends this analyte be analyzed "immediately" (e.g., tests that should be performed in the field within 15 minutes of collection). Analytes with "immediate" hold times are analyzed as soon as possible upon receipt by the laboratory.
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

Workorder Specific Comments:

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted - 12-0646-102

Report Date: March 31, 2014
Workorder: **1403C72**

Client Sample ID: **B-122**
Lab ID: 1403C72-001 **Date Received:** 03/27/2014 12:40 PM

Matrix: SOIL
Collection Date: 03/26/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
MERCURY BY CVAA, TCLP		Method: EPA-1311/7470A-Rev 1, Sep-94				Analyst: sls	
Mercury	<0.0002	0.0002		mg/L	1	03/31/2014 1:00 PM	20997

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

PREP DATES REPORT

Client: Pioneer Environmental Services LLC
Project: 63rd and Halsted - 12-0646-102

Report Date: March 31, 2014
Lab Order: **1403C72**

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1403C72-001A	3/26/2014	20997	HG_TPR	MERCURY PREP for TCLP / SPLP		3/31/2014
		20963	1311LM	TCLP SAMPLE PREP (Metals)		3/27/2014

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Qualifier Definitions

WO#: **1403C72**
Date: **3/31/2014**

Qualifiers:

*/x	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
c	Analyte not in SLI scope of accreditation
E	Estimated, detected above quantitation range
G	Refer to case narrative page for specific comments
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limit (QL)
N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit
P	Present
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits

SUBURBAN LABORATORIES, Inc.

4140 Litt Drive Hillside, IL 60162 Tel. 708.544.3260 Fax: 708.544.8587 Toll Free: 800.783.LABS www.suburbanlabs.com

CHAIN OF CUSTODY RECORD # 113913

Company Name: Pioneer Environmental
Company Address: 700 N. Sacramento Blvd suite 101
City: Chicago State: IL Zip: 60612
Phone: 773-722-9200 X208 Fax: ☐ Fax Report
Email Address: nstruble@pioneerees.com Final Report will be emailed
Project ID / Location: 63rd + Halsted 12-0646-102
Project Manager (Report to): N. Struble
Sample Collector(s) Name: J. Mizwicki

TURNAROUND TIME REQUESTED

☒ Normal ☐ RUSH* *Additional Rush Charges Approved.

*Date & Time Needed: _____

Normal TAT is specified on the price quotation or fee schedule. Rush work must be pre-approved and additional charges apply.

Specify Regulatory Program: (Required) ☐ None/Info Only

☐ LUST ☐ SRP ☐ SDWA

☐ 503 Sludge ☐ NPDES ☐ MWRDGC

☐ Disposal ☐ Other* *Please specify in comment section below.

ANALYSIS & METHOD REQUESTED

Enter an "X" in box below for request

TCLP mercury

Page 1 of 1
PO No.
Shipping Method
Reporting Level (at additional charge) 1 2 3 4

LAB USE ONLY

SLI ORDER No. 1403C72
Sample containers supplied by customer? ☐ Yes
Temperature of Received Samples °C
Samples received the same day as collection? ☐ Yes

	SAMPLE IDENTIFICATION *Use One Line Per Preservation & Container Type*	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	R-	Condition	Split	LAB #
1	B12(0-3)	3/26/14		S			4oz	none	X			001A
2		/ /										
3		/ /										
4		/ /										
5		/ /										
6		/ /										
7		/ /										
8		/ /										
9		/ /										
10		/ /										
11		/ /										
12		/ /										

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) **CONTAINER:** 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) **PRESERVATIVE:** H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

CONDITION CODES

1. Improper/damaged container/cap
2. Improper preservation
3. Insufficient sample volume
4. Headspace/air bubbles for VOCs
5. Received past holding time
6. Received frozen
7. Label conflicts with COC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
N Struble	6/26/		3.27.14				
Received By ☒ Ice present	Time 0815	Received By ☐ Ice present	Time 12:40	Received By ☐ Ice present	Time	Received By ☐ Ice present	Time

Submission of samples subject to Terms and Conditions on back. Rev. 07/20/08 White-Original, Pink-Sampler Copy

SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

April 01, 2014

Workorder: 1403414

Natalie Struble
Pioneer Environmental Services LLC
700 N. Sacramento Blvd., Suite 101
Chicago, IL 60612

TEL: (773) 722-9200
FAX: (773) 722-9201
RE: NWC W. 63rd St. and S. Halsted - 12-0646-102

Dear Natalie Struble:

Suburban Laboratories, Inc. received 3 sample(s) on 2/20/2014 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation on, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Kelly Culhane

Kelly Culhane
Project Manager
708-544-3260 ext 212
kelly@suburbanlabs.com

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Case Narrative

Client: Pioneer Environmental Services LLC
Project: NWC W. 63rd St. and S. Halsted - 12-0646-102
WorkOrder: 1403414
Temperature of samples upon receipt at SLI: 6 C

Date: April 01, 2014
PO #: 12-0646-102
QC Level:
Chain of Custody #: 113906, 113907, 113908

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- In Laboratory: EPA recommends this analyte be analyzed "immediately" (e.g., tests that should be performed in the field within 15 minutes of collection). Analytes with "immediate" hold times are analyzed as soon as possible upon receipt by the laboratory.
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

Workorder Specific Comments:

This report supersedes the report dated 03/19/2014

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102
Workorder: **1403414**

Client Sample ID: **B-105 (0-3)**
Matrix: SOIL
Lab ID: 1403414-001 **Date Received:** 02/20/2014 4:15 PM
Collection Date: 02/19/2014 10:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
ORGANIC MATTER & ORGANIC CARBON CONTENT		Method: ASTM-D2974-Rev 2000				Analyst: mkl	
FOM-Organic Matter (@ 440 C)	0.0337	0.00100		g/g	1	03/11/2014 11:15 AM	R44695
FOC-Organic Carbon (0.58 Factor)	0.0195	0.00100		g/g	1	03/11/2014 11:15 AM	R44695

Client Sample ID: **B-102 (0-3)**
Matrix: SOIL
Lab ID: 1403414-002 **Date Received:** 02/20/2014 4:15 PM
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICPMS, SPLP LEACHED		Method: SW846-6020-Rev 0, Sep-94				Analyst: sls	
Antimony	0.00366	0.000600		mg/L	1	03/18/2014 1:36 PM	20725
Selenium	0.00372	0.00100		mg/L	1	03/18/2014 1:36 PM	20725

Client Sample ID: **B-118 (0-3)**
Matrix: SOIL
Lab ID: 1403414-003 **Date Received:** 02/20/2014 4:15 PM
Collection Date: 02/19/2014 3:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP, SPLP LEACHED		Method: EPA-1312/6010B-Rev 2, Dec-96				Analyst: jmk	
Lead	<0.0067	0.0067		mg/L	1	03/17/2014 2:38 PM	20701

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

PREP DATES REPORT

Client: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project: NWC W. 63rd St. and S. Halsted -
Lab Order: **1403414**

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1403414-002A	2/20/2014	20725	200.2_ICPMSSP	AQUEOUS PREP TOTAL METALS: ICPMS		3/17/2014
		20698	200.2_ICPMSSP	AQUEOUS PREP TOTAL METALS: ICPMS		3/14/2014
		20628	1312LMLow	SPLP SAMPLE PREP (Metals)		3/11/2014
1403414-003A	2/19/2014 3:00:00 P	20701	200.2_ICPT_PR	AQUEOUS PREP TOTAL METALS: ICP		3/14/2014
		20628	1312LMLow	SPLP SAMPLE PREP (Metals)		3/11/2014

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Qualifier Definitions

WO#: **1403414**
Date: **4/1/2014**

Qualifiers:

*/x	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
c	Analyte not in SLI scope of accreditation
E	Estimated, detected above quantitation range
G	Refer to case narrative page for specific comments
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limit (QL)
N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit
P	Present
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits

Kelly Culhane 1403414

From: Natalie Struble <nstruble@pioneerees.com>
Sent: Monday, March 10, 2014 4:34 PM
To: Kelly Culhane
Subject: Re: TOC - 63rd & Halsted

Hi Kelly,

Thanks for checking on all that. Please run:
SB-5 (0-3) for TOC -001A
SB-2 (0-3) for SPLP antimony -002A
SB-18 (0-3) for SPLP lead -003A

If it is at all possible, it would be best if we could run SPLP selenium on SB-19 (0-3). However, if there is definitely not enough sample left in SB-19, let me know and I'll see what we should do.

Thanks!

Natalie

Natalie Struble | Project Manager
Pioneer Environmental Services, LLC
700 N. Sacramento Blvd. Suite 101 | Chicago, IL 60612
Tel: 773-722-9200 x. 208 | Fax: 773-722-9201
nstruble@pioneerees.com | www.pioneerEES.com

On Mar 10, 2014, at 3:39 PM, Kelly Culhane wrote:

Hi Natalie,

I have enough sample for SB-5 (0-3) and SB-10 (4-8) to run OC Content. I also have enough sample to run SB-2 (0-3) for SPLP Antimony and SB-18 (0-3) for SPLP Lead, but I do not believe there is enough sample for SB-19 (0-3) to run SPLP Selenium. Please let me know how you'd like to proceed.

Thank you,

Kelly Culhane
Project Manager

www.suburbanlabs.com
708-544-3260 Ext. 212

From: Natalie Struble [mailto:nstruble@pioneerees.com]
Sent: Monday, March 10, 2014 2:29 PM

SUBURBAN LABORATORIES, Inc.

4140 Litt Drive Hillside, IL 60162 Tel. 708.544.3260 Fax: 708.544.8587 Toll Free: 800.783.LABS www.suburbanlabs.com

CHAIN OF CUSTODY RECORD

113906

Company Name: Pioneer Env.
Company Address: 700 N. Sacramento Blvd
City: Chgo State: IL Zip: 60612
Phone: 773-722-9200 Fax: ☐ Fax Report
Email Address: nstruble@pioneerees.com Final Report will be emailed
Project ID / Location: MWC W. 63rd St. + S. Halsted 12-0646402
Project Manager (Report to): N. Struble
Sample Collector(s) Name: N. Struble

TURNAROUND TIME REQUESTED
☒ Normal ☐ RUSH* *Additional Rush Charges Approved.
*Date & Time Needed: _____
Normal TAT is specified on the price quotation or fee schedule. Rush work must be pre-approved and additional charges apply.

Specify Regulatory Program: (Required) ☐ None/Info Only
☐ LUST ☐ SRP ☐ SDWA
☐ 503 Sludge ☐ NPDES ☐ MWRDGC
☐ Disposal ☐ Other* *Please specify in comment section below.

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

Page 1 of 3
PO No.
Shipping Method
Reporting Level (at additional charge) 1 2 3 4
LAB USE ONLY
SU ORDER No. 1402924
Sample containers supplied by customer? ☐ Yes
Temperature of Received Samples 6 °C
Samples received the same day as collection? ☐ Yes

	SAMPLE IDENTIFICATION "Use One Line Per Preservation & Container Type"	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	PNAs	RCRA & metals	pH	TCLP	TPH	VOCs	R-	Condition	Split	LAB #
1	SB-5 (0-3)	2/19/14	10:00	S			4oz	none	X	X	X	X						001A/B/C
2	SB-6 (0-3)	/ /	10:30				4oz		X	X	X							002A
3	SB-8 (0-3)	/ /	10:45				4oz		Hold									
4	SB-8 (8-12)	/ /	10:45				9oz						X					
5	SB-9 (0-3)	/ /	11:00				4oz		X	X	X							
6	SB-10 (0-3)	/ /	11:30				4oz		X	X	X							006A
7	SB-10 (4-8)	/ /	11:30			1x 9oz 3x 40 mL		+ MeOH				X		X				007A/B/C
8	SB-11 (0-3)	/ /	12:00				4oz		X	X	X							008A
9	SB-12 (0-3)	/ /	12:30				4oz		X	X	X							009A
10		/ /																
11		/ /																
12		/ /																

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

19

CONDITION CODES
1. Improper/damaged container/cap
2. Improper preservation
3. Insufficient sample volume
4. Headspace/air bubbles for VOCs
5. Received past holding time
6. Received frozen
7. Label conflicts with COC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
N Struble	2/19/14	NTS	2/20/14				
Received By ☐ Ice present	Time	Received By ☐ Ice present	Time	Received By ☐ Ice present	Time	Received By ☐ Ice present	Time
NTS	13:13	K Gilhane	16:15				

Submission of samples subject to Terms and Conditions on back. Rev. 07/20/08 White-Original, Pink-Sampler Copy

SUBURBAN LABORATORIES, Inc.

4140 Litt Drive Hillside, IL 60162 Tel. 708.544.3260 Fax: 708.544.8587 Toll Free: 800.783.LABS www.suburbanlabs.com

CHAIN OF CUSTODY RECORD # 113905

Page 2 of 3

Company Name: Pioneer Environmental
Company Address: 700 N. Sacramento Blvd
City: Chgo State: IL Zip: 60612
Phone: 773-722-9200 Fax: ☐ Fax Report
Email Address: nstruble@pioneerees.com Final Report will be emailed
Project ID / Location: NWC W 63rd St + S. Halsted 12-0646-102
Project Manager (Report to): N. Struble
Sample Collector(s) Name: N. Struble

TURNAROUND TIME REQUESTED
☒ Normal ☐ RUSH* *Additional Rush Charges Approved.
*Date & Time Needed:
Normal TAT is specified on the price quotation or fee schedule. Rush work must be pre-approved and additional charges apply.

Specify Regulatory Program: (Required) ☐ None/Info Only
☐ LUST ☐ SRP ☐ SDWA
☐ 503 Sludge ☐ NPDES ☐ MWRDGC
☐ Disposal ☐ Other* *Please specify in comment section below.

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

PO No.
Shipping Method
Reporting Level (at additional charge) 1 2 3 4

LAB USE ONLY
SLI ORDER No. 1402924
Sample containers supplied by customer? ☐ Yes
Temperature of Received Samples 6 °C
Samples received the same day as collection? ☐ Yes

	SAMPLE IDENTIFICATION "Use One Line Per Preservation & Container Type"	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	PVAs	RCRA 8 metals	pH	VOCs	[illegible]	TCL	TPH	R	Condition	Split	LAB #
1	SB-13 (0-3)	2/19/14	1:00	S			4oz	none	X	X	X								-010A
2	SB-14 (0-3)	/ /	1:30				4oz		X	X	X								
3	SB-14 (8-12)	/ /	1:30				2x4oz		hold										
4	SB-15 (0-3)	/ /	2:00				4oz		X	X	X								-013A
5	SB-15 (4-8)	/ /	2:00				1x 9oz 3x40mL	↓ meoH				X			X				-014A/B/C
6	SB-16 (0-3)	/ /	2:30				4oz		X	X	X								-015A
7	SB-16 (4-8)	/ /	2:30				2x4oz 3x40mL	↓ meoH						X	X				-016A/B/C
8	SB-17 (0-3)	/ /	3:00				4oz		X	X	X								-017A
9		/ /																	
10		/ /																	
11		/ /																	
12		/ /																	

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

CONDITION CODES
1. Improper/damaged container/cap
2. Improper preservation
3. Insufficient sample volume
4. Headspace/air bubbles for VOCs
5. Received past holding time
6. Received frozen
7. Label conflicts with COC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
N Struble	2/19/14	NTB	2/20/14				
Received By: NTB ☐ Ice present	Time: 13:13	Received By: K Gilhane ☐ Ice present	Time: 16:15	Received By ☐ Ice present	Time	Received By ☐ Ice present	Time

Submission of samples subject to Terms and Conditions on back. Rev. 07/20/08 White-Original, Pink-Sampler Copy

SUBURBAN LABORATORIES, Inc.

4140 Litt Drive Hillside, IL 60162 Tel. 708.544.3260 Fax: 708.544.8587 Toll Free: 800.783.LABS www.suburbanlabs.com

CHAIN OF CUSTODY RECORD # 113907

Page 3 of 3

Company Name: Pioneer Env.
Company Address: 600 N. Sacramento Blvd
City: Chgo State: IL Zip: 60612
Phone: 773-722-9200 Fax: ☐ Fax Report
Email Address: nstruble@pioneerecs.com ☐ Final Report will be emailed
Project ID / Location: NWC W 63rd St + S. Halsted 12-0646-102
Project Manager (Report to): N. Strable
Sample Collector(s) Name: N. Strable

TURNAROUND TIME REQUESTED
☒ Normal ☐ RUSH* *Additional Rush Charges Approved.
*Date & Time Needed:
Normal TAT is specified on the price quotation or fee schedule. Rush work must be pre-approved and additional charges apply.

Specify Regulatory Program: (Required) ☐ None/Info Only
☐ LUST ☐ SRP ☐ SDWA
☐ 503 Sludge ☐ NPDES ☐ MWRDGC
☐ Disposal ☐ Other* *Please specify in comment section below.

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

PO No.:
Shipping Method:
Reporting Level (at additional charge) 1 2 3 4

LAB USE ONLY
SLI ORDER No.: 1402924
Sample containers supplied by customer? ☐ Yes
Temperature of Received Samples: 6 °C
Samples received the same day as collection? ☐ Yes

	SAMPLE IDENTIFICATION "Use One Line Per Preservation & Container Type"	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	PNAs	RCRA 8 metals	pH	VOC	TPH	TCL	R-	Condition	Split	LAB #
1	SB-18 (0-3)	2/19/14	3:00	S			4oz	none	X	X	X							019A
2	SB-19 (0-3)	"	3:15				9oz		X	X	X							019A
3	SB-19 (4-8)	"	3:30				9oz						X					020A
4	SB-20 (0-3)	"	3:45			1x 9oz 3x 40mL		+ MeOH	X	X	X	X						021A/B/C
5	SB-21 (0-3)	"	4:15				4oz		X	X	X							022A
6	SB-22 (0-3)	"	4:30				4oz		X	X	X							023A
7																		
8																		
9																		
10																		
11																		
12																		

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

CONDITION CODES
1. Improper/damaged container/cap
2. Improper preservation
3. Insufficient sample volume
4. Headspace/air bubbles for VOCs
5. Received past holding time
6. Received frozen
7. Label conflicts with COC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
N. Strable	2/19/14	MTB	2/20/14				
Received By ☐ Ice present	Time	Received By ☐ Ice present	Time	Received By ☐ Ice present	Time	Received By ☐ Ice present	Time
MTB	13:13	K Cullane	16:15				

Submission of samples subject to Terms and Conditions on back. Rev. 07/20/08 White-Original, Pink-Sampler Copy

SUBURBAN LABORATORIES, Inc.

4140 Litt Drive Hillside, IL 60162 Tel. 708.544.3260 Fax 708.544.8587 Toll Free: 800.783.LABS www.suburbanlabs.com

CHAIN OF CUSTODY RECORD # 113908

Company Name: Pioneer Environmental
Company Address: 700 N. Sacramento Blvd
City: Chicago State: IL Zip: 60612
Phone: 773-722-9200 Fax: ☐ Fax Report
Email Address: nstruble@pioneerees.com Final Report will be emailed
Project ID / Location: NWC W 63rd St. + S Halsted 12-0646-102
Project Manager (Report to): N. Struble
Sample Collector(s) Name: N. Struble

TURNAROUND TIME REQUESTED
☒ Normal ☐ RUSH* *Additional Rush Charges Approved.
*Date & Time Needed:
Normal TAT is specified on the price quotation or fee schedule. Rush work must be pre-approved and additional charges apply.
Specify Regulatory Program: (Required) ☐ None/Info Only
☐ LUST ☐ SRP ☐ SDWA
☐ 503 Sludge ☐ NPDES ☐ MWRDGC
☐ Disposal ☐ Other* *Please specify in comment section below.

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

Page of
PO No.
Shipping Method
Reporting Level (at additional charge) 1 2 3 4

LAB USE ONLY
SL ORDER No. 1402938
Sample containers supplied by customer? ☐ Yes
Temperature of Received Samples 6 °C
Samples received the same day as collection? ☐ Yes

	SAMPLE IDENTIFICATION "Use One Line Per Preservation & Container Type"	COLLECTION DATE	TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	SIZE & TYPE	PRESERVATIVE	PAHs	RCRA 8 metals	pH	TCL	TOC	VOC	R-	Condition	Split	LAB #
1	SB-1 (0-3)	2/2014		S		1	4oz	none	X	XX								001A
2	SB-2 (0-3)	/ /				1x 9oz 3x 40mL		+ HCl	X	X	X	X						002A B C
3	SB-3 (0-3)	/ /				↓		+ MeOH	X	X	X	X						003A B C
4	SB-4 (0-3)	/ /				1	4oz			X	X	X						004A
5	SB-7 (0-3)	/ /				1x 9oz 3x 40mL		+ HCl				X						005A B C
6	SB-23 (0-3)	/ /		↓		↓		+ MeOH	X	X	X		X					006A B C
7		/ /																
8		/ /																
9		/ /																
10		/ /																
11		/ /																
12		/ /																

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

CONDITION CODES
1. Improper/damaged container/cap
2. Improper preservation
3. Insufficient sample volume
4. Headspace/air bubbles for VOCs
5. Received past holding time
6. Received frozen
7. Label conflicts with COC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
N Struble	2/20/14	MTB	2/20/14				
Received By ☐ Ice present	**Time**	**Received By** ☐ Ice present	**Time**	**Received By** ☐ Ice present	**Time**	**Received By** ☐ Ice present	**Time**
MTB	13:13	R Gilbane	16:15				

Submission of samples subject to Terms and Conditions on back. Rev. 07/20/08 White-Original, Pink-Sampler Copy

SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

April 01, 2014

Workorder: 1402924

Natalie Struble
Pioneer Environmental Services LLC
700 N. Sacramento Blvd., Suite 101
Chicago, IL 60612

TEL: (773) 722-9200
FAX: (773) 722-9201
RE: NWC W. 63rd St. and S. Halsted - 12-0646-102

Dear Natalie Struble:

Suburban Laboratories, Inc. received 24 sample(s) on 2/20/2014 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation on, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Kelly Culhane

Kelly Culhane
Project Manager
708-544-3260 ext 212
kelly@suburbanlabs.com

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Case Narrative

Client: Pioneer Environmental Services LLC
Project: NWC W. 63rd St. and S. Halsted - 12-0646-102
WorkOrder: 1402924
Temperature of samples upon receipt at SLI: 6 C

Date: April 01, 2014
PO #: 12-0646-102
QC Level:
Chain of Custody #: 113906,113905, 113907

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- In Laboratory: EPA recommends this analyte be analyzed "immediately" (e.g., tests that should be performed in the field within 15 minutes of collection). Analytes with "immediate" hold times are analyzed as soon as possible upon receipt by the laboratory.
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

Workorder Specific Comments:

pH OUTSIDE CALIBRATION RANGE:
Sample 1402924-015A, -018A: E = pH results over 10 should be considered "minimum values", the true pH may be higher than the reported value. pH results below 2 should be considered "maximum values", the true pH may be lower than the reported value.

Client:	Pioneer Environmental Services LLC	**Date:**	April 01, 2014
Project:	NWC W. 63rd St. and S. Halsted - 12-0646-102	**PO #:**	12-0646-102
WorkOrder:	**1402924**	**QC Level:**	
Temperature of samples upon receipt at SLI: 6 C		**Chain of Custody #:**	113906,113905, 113907

This report supersedes the report dated 03/05/2014

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402924

Client Sample ID: B-105 (0-3)
Lab ID: 1402924-001
Date Received: 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 10:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Aluminum	9,320	2.38		mg/Kg-dry	1	02/26/2014 4:47 PM	20416
Antimony	9.34	1.43		mg/Kg-dry	1	02/26/2014 4:47 PM	20416
Arsenic	<1.10	1.10		mg/Kg-dry	1	02/26/2014 4:47 PM	20416
Barium	99.1	0.119		mg/Kg-dry	1	02/26/2014 4:47 PM	20416
Beryllium	1.07	0.0352		mg/Kg-dry	1	02/26/2014 4:47 PM	20416
Cadmium	0.969	0.0714		mg/Kg-dry	1	02/26/2014 4:47 PM	20416
Calcium	97,500	5.95		mg/Kg-dry	10	02/27/2014 3:31 PM	20416
Chromium	9.73	0.0571		mg/Kg-dry	1	02/26/2014 4:47 PM	20416
Cobalt	3.37	0.119		mg/Kg-dry	1	02/26/2014 4:47 PM	20416
Copper	16.4	0.143		mg/Kg-dry	1	02/26/2014 4:47 PM	20416
Iron	10,500	0.595		mg/Kg-dry	1	02/26/2014 4:47 PM	20416
Lead	73.5	0.571		mg/Kg-dry	1	02/26/2014 4:47 PM	20416
Magnesium	19,900	0.595		mg/Kg-dry	1	02/26/2014 4:47 PM	20416
Manganese	947	0.0571		mg/Kg-dry	1	02/26/2014 4:47 PM	20416
Nickel	8.18	0.224		mg/Kg-dry	1	02/26/2014 4:47 PM	20416
Potassium	1,160	2.38		mg/Kg-dry	1	02/26/2014 4:47 PM	20416
Selenium	<1.24	1.24		mg/Kg-dry	1	02/26/2014 4:47 PM	20416
Silver	<0.0571	0.0571		mg/Kg-dry	1	02/26/2014 4:47 PM	20416
Sodium	701	1.19		mg/Kg-dry	1	02/26/2014 4:47 PM	20416
Thallium	<0.424	0.424		mg/Kg-dry	1	02/26/2014 4:47 PM	20416
Vanadium	12.0	0.143		mg/Kg-dry	1	02/26/2014 4:47 PM	20416
Zinc	54.7	0.0714		mg/Kg-dry	1	02/26/2014 4:47 PM	20416
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96				Analyst: mn	
4,4´-DDD	<0.00195	0.00195		mg/Kg-dry	1	02/28/2014 5:40 PM	20385
4,4´-DDE	<0.00195	0.00195		mg/Kg-dry	1	02/28/2014 5:40 PM	20385
4,4´-DDT	<0.00195	0.00195		mg/Kg-dry	1	02/28/2014 5:40 PM	20385
Aldrin	<0.000973	0.000973		mg/Kg-dry	1	02/28/2014 2:22 PM	20385
alpha-BHC	<0.000973	0.000973		mg/Kg-dry	1	02/28/2014 2:22 PM	20385
alpha-Chlordane	<0.000973	0.000973		mg/Kg-dry	1	02/28/2014 2:22 PM	20385
beta-BHC	<0.000973	0.000973		mg/Kg-dry	1	02/28/2014 2:22 PM	20385
Chlordane	<0.0194	0.0194		mg/Kg-dry	1	02/28/2014 2:22 PM	20385
delta-BHC	<0.000973	0.000973		mg/Kg-dry	1	02/28/2014 2:22 PM	20385
Dieldrin	<0.00195	0.00195		mg/Kg-dry	1	02/28/2014 5:40 PM	20385
Endosulfan I	<0.000973	0.000973		mg/Kg-dry	1	02/28/2014 2:22 PM	20385

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102
Workorder: 1402924

Client Sample ID: B-105 (0-3)
Matrix: SOIL
Lab ID: 1402924-001
Date Received: 02/20/2014 4:15 PM
Collection Date: 02/19/2014 10:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96				Analyst: mn	
Endosulfan II	<0.00195	0.00195		mg/Kg-dry	1	02/28/2014 2:22 PM	20385
Endosulfan sulfate	<0.00195	0.00195		mg/Kg-dry	1	02/28/2014 2:22 PM	20385
Endrin	<0.00195	0.00195		mg/Kg-dry	1	02/28/2014 2:22 PM	20385
Endrin aldehyde	<0.00195	0.00195		mg/Kg-dry	1	02/28/2014 2:22 PM	20385
Endrin ketone	<0.00195	0.00195		mg/Kg-dry	1	02/28/2014 2:22 PM	20385
gamma-BHC	<0.000973	0.000973		mg/Kg-dry	1	02/28/2014 5:40 PM	20385
gamma-Chlordane	<0.000973	0.000973		mg/Kg-dry	1	02/28/2014 2:22 PM	20385
Heptachlor	<0.000973	0.000973		mg/Kg-dry	1	02/28/2014 5:40 PM	20385
Heptachlor epoxide	<0.000973	0.000973		mg/Kg-dry	1	02/28/2014 2:22 PM	20385
Methoxychlor	<0.00973	0.00973		mg/Kg-dry	1	02/28/2014 2:22 PM	20385
Toxaphene	<0.0389	0.0389		mg/Kg-dry	1	02/28/2014 2:22 PM	20385
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	77.1	33.7-156		%REC	1	02/28/2014 2:22 PM	20385
PCBS		Method: EPA-8082-Rev 0, Dec-96				Analyst: mn	
Aroclor 1016	<0.0390	0.0390		mg/Kg-dry	2	03/04/2014 5:56 PM	20384
Aroclor 1221	<0.0390	0.0390		mg/Kg-dry	2	03/04/2014 5:56 PM	20384
Aroclor 1232	<0.0390	0.0390		mg/Kg-dry	2	03/04/2014 5:56 PM	20384
Aroclor 1242	<0.0390	0.0390		mg/Kg-dry	2	03/04/2014 5:56 PM	20384
Aroclor 1248	<0.0390	0.0390		mg/Kg-dry	2	03/04/2014 5:56 PM	20384
Aroclor 1254	<0.0390	0.0390		mg/Kg-dry	2	03/04/2014 5:56 PM	20384
Aroclor 1260	<0.0390	0.0390		mg/Kg-dry	2	03/04/2014 5:56 PM	20384
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	62.5	33.7-156		%REC	2	03/04/2014 5:56 PM	20384
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
Total 1,3-Dichloropropene	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
1,1,1-Trichloroethane	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
1,1,2,2-Tetrachloroethane	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
1,1,2-Trichloroethane	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
1,1-Dichloroethane	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
1,1-Dichloroethene	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
1,2-Dichloroethane	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
1,2-Dichloropropane	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
2-Butanone	<0.00975	0.00975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
2-Hexanone	<0.0244	0.0244		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102
Workorder: **1402924**

Client Sample ID: **B-105 (0-3)**
Matrix: SOIL
Lab ID: 1402924-001
Date Received: 02/20/2014 4:15 PM
Collection Date: 02/19/2014 10:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
4-Methyl-2-pentanone	<0.0244	0.0244		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
Acetone	<0.0244	0.0244		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
Benzene	<0.000244	0.000244		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
Bromodichloromethane	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
Bromoform	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
Bromomethane	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
Carbon disulfide	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
Carbon tetrachloride	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
Chlorobenzene	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
Chloroethane	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
Chloroform	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
Chloromethane	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
cis-1,2-Dichloroethene	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
cis-1,3-Dichloropropene	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
Dibromochloromethane	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
Ethylbenzene	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
m,p-Xylene	0.00350	0.00195		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
Methyl tert-butyl ether	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
Methylene chloride	<0.00488	0.00488		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
o-Xylene	0.00154	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
Total Xylenes	0.00504	0.00195		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
Styrene	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
Tetrachloroethene	<0.00195	0.00195		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
Toluene	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
trans-1,2-Dichloroethene	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
trans-1,3-Dichloropropene	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
Trichloroethene	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
Vinyl chloride	<0.000975	0.000975		mg/Kg-dry	0.83	02/25/2014 6:01 PM	R44211
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	87.3	61.55-121		%REC	0.83	02/25/2014 6:01 PM	R44211
SS: Dibromofluoromethane	100	71.4-147		%REC	0.83	02/25/2014 6:01 PM	R44211
SS: Toluene-d8	94.3	61-135		%REC	0.83	02/25/2014 6:01 PM	R44211
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,2,4-Trichlorobenzene	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
1,2-Dichlorobenzene	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102
Workorder: **1402924**

Client Sample ID: **B-105 (0-3)**
Matrix: SOIL
Lab ID: 1402924-001
Date Received: 02/20/2014 4:15 PM
Collection Date: 02/19/2014 10:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,3-Dichlorobenzene	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
1,4-Dichlorobenzene	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
2,4,5-Trichlorophenol	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
2,4,6-Trichlorophenol	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
2,4-Dichlorophenol	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
2,4-Dimethylphenol	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
2,4-Dinitrophenol	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
2,4-Dinitrotoluene	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
2,6-Dinitrotoluene	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
2-Chloronaphthalene	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
2-Chlorophenol	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
2-Methylnaphthalene	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
2-Nitroaniline	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
2-Nitrophenol	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
3,3-Dichlorobenzidine	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
3-Nitroaniline	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
4,6-Dinitro-2-methylphenol	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
4-Bromophenyl phenyl ether	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
4-Chloro-3-methylphenol	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
4-Chloroaniline	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
4-Chlorophenyl phenyl ether	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
4-Nitroaniline	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
4-Nitrophenol	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Acenaphthene	<0.0583	0.0583		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Acenaphthylene	<0.0583	0.0583		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Anthracene	0.115	0.0583		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Benzo(a)anthracene	0.371	0.0583		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Benzo(a)pyrene	0.322	0.0583		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Benzo(b)fluoranthene	0.437	0.0583		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Benzo(g,h,i)perylene	0.190	0.0583		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Benzo(k)fluoranthene	0.161	0.0583		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Bis(2-chloroethoxy)methane	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Bis(2-chloroethyl)ether	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Bis(2-chloroisopropyl)ether	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Bis(2-ethylhexyl)phthalate	0.467	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Butyl benzyl phthalate	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Carbazole	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102
Workorder: **1402924**

Client Sample ID: **B-105 (0-3)**
Matrix: SOIL
Lab ID: 1402924-001
Date Received: 02/20/2014 4:15 PM
Collection Date: 02/19/2014 10:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Chrysene	0.381	0.0583		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Dibenzo(a,h)anthracene	0.0735	0.0583		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Dibenzofuran	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Diethyl phthalate	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Dimethyl phthalate	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Di-n-butyl phthalate	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Di-n-octyl phthalate	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Fluoranthene	0.725	0.0583		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Fluorene	<0.0583	0.0583		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Hexachlorobenzene	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Hexachlorobutadiene	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Hexachlorocyclopentadiene	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Hexachloroethane	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Indeno(1,2,3-cd)pyrene	0.160	0.0583		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Isophorone	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
m,p-Cresol	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Naphthalene	<0.0583	0.0583		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Nitrobenzene	<0.0583	0.0583		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
N-Nitroso-di-n-propylamine	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
N-Nitrosodiphenylamine	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
o-Cresol	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Pentachlorophenol	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Phenanthrene	0.515	0.0583		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Phenol	<0.292	0.292		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Pyrene	0.643	0.0583		mg/Kg-dry	1	02/27/2014 10:39 PM	20383
Internal Quality Control Compounds							
SS: 2,4,6-Tribromophenol	78.8	0.1-136		%REC	1	02/27/2014 10:39 PM	20383
SS: 2-Fluorobiphenyl	69.6	16.3-118		%REC	1	02/27/2014 10:39 PM	20383
SS: 2-Fluorophenol	66.8	4.2-97		%REC	1	02/27/2014 10:39 PM	20383
SS: 4-Terphenyl-d14	74.1	0.1-147		%REC	1	02/27/2014 10:39 PM	20383
SS: Nitrobenzene-d5	52.8	0.1-119		%REC	1	02/27/2014 10:39 PM	20383
SS: Phenol-d5	65.4	9.82-111		%REC	1	02/27/2014 10:39 PM	20383
CYANIDE, TOTAL		Method: EPA-9014-Rev 0, Dec-96				Analyst: LAP	
Cyanide	0.14	0.12	J	mg/Kg-dry	10	02/26/2014 12:57 PM	R44286
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: jmk	

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: **1402924**

Client Sample ID: **B-105 (0-3)**
Lab ID: 1402924-001 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 10:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: jmk	
Mercury	0.0975	0.0235	J	mg/Kg-dry	1	03/05/2014 1:47 PM	20520
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: mjs	
ICP Specific Percent Moisture	15.32			wt%	1	02/25/2014 3:58 PM	R44237
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: LAP	
pH	8.87			pH Units	1	02/28/2014 4:08 PM	R44423
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	15	1.0		wt%	1	02/26/2014 3:01 PM	R44280

Client Sample ID: **B-106 (0-3)**
Lab ID: 1402924-002 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 10:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402924

Client Sample ID: B-106 (0-3)
Lab ID: 1402924-002
Date Received: 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 10:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	3.72	1.14	J	mg/Kg-dry	1	02/26/2014 5:08 PM	20416
Barium	89.7	0.124		mg/Kg-dry	1	02/26/2014 5:08 PM	20416
Cadmium	1.23	0.0743		mg/Kg-dry	1	02/26/2014 5:08 PM	20416
Chromium	9.78	0.0594		mg/Kg-dry	1	02/26/2014 5:08 PM	20416
Lead	283	0.594		mg/Kg-dry	1	02/26/2014 5:08 PM	20416
Selenium	<1.29	1.29		mg/Kg-dry	1	02/26/2014 5:08 PM	20416
Silver	0.0925	0.0594	J	mg/Kg-dry	1	02/26/2014 5:08 PM	20416
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	<0.0479	0.0479		mg/Kg-dry	1	03/01/2014 10:06 AM	20423
Acenaphthylene	0.0855	0.0479		mg/Kg-dry	1	03/01/2014 10:06 AM	20423
Anthracene	0.0814	0.0479		mg/Kg-dry	1	03/01/2014 10:06 AM	20423
Benzo(a)anthracene	0.506	0.0479		mg/Kg-dry	1	03/01/2014 10:06 AM	20423
Benzo(a)pyrene	0.676	0.0479		mg/Kg-dry	1	03/01/2014 10:06 AM	20423
Benzo(b)fluoranthene	0.704	0.0479		mg/Kg-dry	1	03/01/2014 10:06 AM	20423
Benzo(g,h,i)perylene	0.411	0.0479		mg/Kg-dry	1	03/01/2014 10:06 AM	20423
Benzo(k)fluoranthene	0.182	0.0479		mg/Kg-dry	1	03/01/2014 10:06 AM	20423
Chrysene	0.530	0.0479		mg/Kg-dry	1	03/01/2014 10:06 AM	20423
Dibenzo(a,h)anthracene	0.0781	0.0479		mg/Kg-dry	1	03/01/2014 10:06 AM	20423
Fluoranthene	0.818	0.0479		mg/Kg-dry	1	03/01/2014 10:06 AM	20423
Fluorene	<0.0479	0.0479		mg/Kg-dry	1	03/01/2014 10:06 AM	20423
Indeno(1,2,3-cd)pyrene	0.327	0.0479		mg/Kg-dry	1	03/01/2014 10:06 AM	20423
Naphthalene	0.0543	0.0479		mg/Kg-dry	1	03/01/2014 10:06 AM	20423
Phenanthrene	0.294	0.0479		mg/Kg-dry	1	03/01/2014 10:06 AM	20423
Pyrene	0.996	0.0479		mg/Kg-dry	1	03/01/2014 10:06 AM	20423
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	99.2	72.1-138		%REC	1	03/01/2014 10:06 AM	20423
SS: 4-Terphenyl-d14	108	45.3-152		%REC	1	03/01/2014 10:06 AM	20423
SS: Nitrobenzene-d5	100	62.6-144		%REC	1	03/01/2014 10:06 AM	20423
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: jmk	
Mercury	0.861	0.0243		mg/Kg-dry	1	03/05/2014 1:47 PM	20520
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: mjs	

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102
Workorder: **1402924**

Client Sample ID: **B-106 (0-3)**
Matrix: SOIL
Lab ID: 1402924-002 **Date Received:** 02/20/2014 4:15 PM
Collection Date: 02/19/2014 10:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: mjs	
ICP Specific Percent Moisture	17.21			wt%	1	02/25/2014 3:58 PM	R44237
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	8.68			pH Units	1	02/21/2014 11:37 AM	R44109
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	18	1.0		wt%	1	02/26/2014 3:01 PM	R44280

Client Sample ID: **B-109 (0-3)**
Matrix: SOIL
Lab ID: 1402924-005 **Date Received:** 02/20/2014 4:15 PM
Collection Date: 02/19/2014 11:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402924

Client Sample ID: B-109 (0-3)
Lab ID: 1402924-005
Date Received: 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 11:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	2.05	1.10	J	mg/Kg-dry	1	02/26/2014 5:19 PM	20416
Barium	63.0	0.119		mg/Kg-dry	1	02/26/2014 5:19 PM	20416
Cadmium	1.65	0.0714		mg/Kg-dry	1	02/26/2014 5:19 PM	20416
Chromium	17.2	0.0571		mg/Kg-dry	1	02/26/2014 5:19 PM	20416
Lead	164	0.571		mg/Kg-dry	1	02/26/2014 5:19 PM	20416
Selenium	<1.24	1.24		mg/Kg-dry	1	02/26/2014 5:19 PM	20416
Silver	<0.0571	0.0571		mg/Kg-dry	1	02/26/2014 5:19 PM	20416
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	<0.0511	0.0511		mg/Kg-dry	1	03/01/2014 10:40 AM	20423
Acenaphthylene	<0.0511	0.0511		mg/Kg-dry	1	03/01/2014 10:40 AM	20423
Anthracene	<0.0511	0.0511		mg/Kg-dry	1	03/01/2014 10:40 AM	20423
Benzo(a)anthracene	0.0745	0.0511		mg/Kg-dry	1	03/01/2014 10:40 AM	20423
Benzo(a)pyrene	0.0888	0.0511		mg/Kg-dry	1	03/01/2014 10:40 AM	20423
Benzo(b)fluoranthene	0.0875	0.0511		mg/Kg-dry	1	03/01/2014 10:40 AM	20423
Benzo(g,h,i)perylene	0.0589	0.0511		mg/Kg-dry	1	03/01/2014 10:40 AM	20423
Benzo(k)fluoranthene	<0.0511	0.0511		mg/Kg-dry	1	03/01/2014 10:40 AM	20423
Chrysene	0.0897	0.0511		mg/Kg-dry	1	03/01/2014 10:40 AM	20423
Dibenzo(a,h)anthracene	<0.0511	0.0511		mg/Kg-dry	1	03/01/2014 10:40 AM	20423
Fluoranthene	0.165	0.0511		mg/Kg-dry	1	03/01/2014 10:40 AM	20423
Fluorene	<0.0511	0.0511		mg/Kg-dry	1	03/01/2014 10:40 AM	20423
Indeno(1,2,3-cd)pyrene	<0.0511	0.0511		mg/Kg-dry	1	03/01/2014 10:40 AM	20423
Naphthalene	<0.0511	0.0511		mg/Kg-dry	1	03/01/2014 10:40 AM	20423
Phenanthrene	0.0798	0.0511		mg/Kg-dry	1	03/01/2014 10:40 AM	20423
Pyrene	0.192	0.0511		mg/Kg-dry	1	03/01/2014 10:40 AM	20423
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	97.8	72.1-138		%REC	1	03/01/2014 10:40 AM	20423
SS: 4-Terphenyl-d14	109	45.3-152		%REC	1	03/01/2014 10:40 AM	20423
SS: Nitrobenzene-d5	102	62.6-144		%REC	1	03/01/2014 10:40 AM	20423
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: jmk	
Mercury	0.147	0.0250		mg/Kg-dry	1	03/05/2014 1:47 PM	20520
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: mjs	

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102
Workorder: **1402924**

Client Sample ID: **B-109 (0-3)**
Matrix: SOIL
Lab ID: 1402924-005 **Date Received:** 02/20/2014 4:15 PM
Collection Date: 02/19/2014 11:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: mjs	
ICP Specific Percent Moisture	21.93			wt%	1	02/25/2014 3:58 PM	R44237
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	8.33			pH Units	1	02/26/2014 4:57 PM	R44302
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	22	1.0		wt%	1	02/26/2014 3:01 PM	R44280

Client Sample ID: **B-110 (4-8)**
Matrix: SOIL
Lab ID: 1402924-007 **Date Received:** 02/20/2014 4:15 PM
Collection Date: 02/19/2014 11:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402924

Client Sample ID: B-110 (4-8)
Lab ID: 1402924-007
Date Received: 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 11:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Aluminum	2,150	2.45		mg/Kg-dry	1	02/26/2014 4:58 PM	20416
Antimony	6.63	1.47		mg/Kg-dry	1	02/26/2014 4:58 PM	20416
Arsenic	3.67	1.13	J	mg/Kg-dry	1	02/26/2014 4:58 PM	20416
Barium	9.37	0.123		mg/Kg-dry	1	02/26/2014 4:58 PM	20416
Beryllium	<0.0363	0.0363		mg/Kg-dry	1	02/26/2014 4:58 PM	20416
Cadmium	0.850	0.0735		mg/Kg-dry	1	02/26/2014 4:58 PM	20416
Calcium	102,000	6.13		mg/Kg-dry	10	02/27/2014 3:36 PM	20416
Chromium	5.64	0.0588		mg/Kg-dry	1	02/26/2014 4:58 PM	20416
Cobalt	3.45	0.123		mg/Kg-dry	1	02/26/2014 4:58 PM	20416
Copper	9.92	0.147		mg/Kg-dry	1	02/26/2014 4:58 PM	20416
Iron	8,890	0.613		mg/Kg-dry	1	02/26/2014 4:58 PM	20416
Lead	6.17	0.588		mg/Kg-dry	1	02/26/2014 4:58 PM	20416
Magnesium	45,100	6.13		mg/Kg-dry	10	02/27/2014 3:36 PM	20416
Manganese	436	0.0588		mg/Kg-dry	1	02/26/2014 4:58 PM	20416
Nickel	7.87	0.230		mg/Kg-dry	1	02/26/2014 4:58 PM	20416
Potassium	449	2.45		mg/Kg-dry	1	02/26/2014 4:58 PM	20416
Selenium	<1.27	1.27		mg/Kg-dry	1	02/26/2014 4:58 PM	20416
Silver	<0.0588	0.0588		mg/Kg-dry	1	02/26/2014 4:58 PM	20416
Sodium	251	1.23		mg/Kg-dry	1	02/26/2014 4:58 PM	20416
Thallium	<0.436	0.436		mg/Kg-dry	1	02/26/2014 4:58 PM	20416
Vanadium	10.8	0.147		mg/Kg-dry	1	02/26/2014 4:58 PM	20416
Zinc	32.2	0.0735		mg/Kg-dry	1	02/26/2014 4:58 PM	20416
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96				Analyst: mn	
4,4´-DDD	<0.00201	0.00201		mg/Kg-dry	1	02/28/2014 2:42 PM	20385
4,4´-DDE	<0.00201	0.00201		mg/Kg-dry	1	02/28/2014 2:42 PM	20385
4,4´-DDT	<0.00201	0.00201		mg/Kg-dry	1	02/28/2014 2:42 PM	20385
Aldrin	<0.00100	0.00100		mg/Kg-dry	1	02/28/2014 2:42 PM	20385
alpha-BHC	<0.00100	0.00100		mg/Kg-dry	1	02/28/2014 2:42 PM	20385
alpha-Chlordane	<0.00100	0.00100		mg/Kg-dry	1	02/28/2014 2:42 PM	20385
beta-BHC	<0.00100	0.00100		mg/Kg-dry	1	02/28/2014 2:42 PM	20385
Chlordane	<0.0200	0.0200		mg/Kg-dry	1	02/28/2014 2:42 PM	20385
delta-BHC	<0.00100	0.00100		mg/Kg-dry	1	02/28/2014 2:42 PM	20385
Dieldrin	<0.00201	0.00201		mg/Kg-dry	1	02/28/2014 2:42 PM	20385
Endosulfan I	<0.00100	0.00100		mg/Kg-dry	1	02/28/2014 2:42 PM	20385

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102
Workorder: 1402924

Client Sample ID: B-110 (4-8)
Matrix: SOIL
Lab ID: 1402924-007
Date Received: 02/20/2014 4:15 PM
Collection Date: 02/19/2014 11:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96				Analyst: mn	
Endosulfan II	<0.00201	0.00201		mg/Kg-dry	1	02/28/2014 2:42 PM	20385
Endosulfan sulfate	<0.00201	0.00201		mg/Kg-dry	1	02/28/2014 2:42 PM	20385
Endrin	<0.00201	0.00201		mg/Kg-dry	1	02/28/2014 2:42 PM	20385
Endrin aldehyde	<0.00201	0.00201		mg/Kg-dry	1	02/28/2014 2:42 PM	20385
Endrin ketone	<0.00201	0.00201		mg/Kg-dry	1	02/28/2014 2:42 PM	20385
gamma-BHC	<0.00100	0.00100		mg/Kg-dry	1	02/28/2014 2:42 PM	20385
gamma-Chlordane	<0.00100	0.00100		mg/Kg-dry	1	02/28/2014 2:42 PM	20385
Heptachlor	<0.00100	0.00100		mg/Kg-dry	1	02/28/2014 2:42 PM	20385
Heptachlor epoxide	<0.00100	0.00100		mg/Kg-dry	1	02/28/2014 2:42 PM	20385
Methoxychlor	<0.0100	0.0100		mg/Kg-dry	1	02/28/2014 2:42 PM	20385
Toxaphene	<0.0402	0.0402		mg/Kg-dry	1	02/28/2014 2:42 PM	20385
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	68.5	33.7-156		%REC	1	02/28/2014 2:42 PM	20385
PCBS		Method: EPA-8082-Rev 0, Dec-96				Analyst: mn	
Aroclor 1016	<0.0403	0.0403		mg/Kg-dry	2	03/04/2014 6:15 PM	20384
Aroclor 1221	<0.0403	0.0403		mg/Kg-dry	2	03/04/2014 6:15 PM	20384
Aroclor 1232	<0.0403	0.0403		mg/Kg-dry	2	03/04/2014 6:15 PM	20384
Aroclor 1242	<0.0403	0.0403		mg/Kg-dry	2	03/04/2014 6:15 PM	20384
Aroclor 1248	<0.0403	0.0403		mg/Kg-dry	2	03/04/2014 6:15 PM	20384
Aroclor 1254	<0.0403	0.0403		mg/Kg-dry	2	03/04/2014 6:15 PM	20384
Aroclor 1260	<0.0403	0.0403		mg/Kg-dry	2	03/04/2014 6:15 PM	20384
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	47.5	33.7-156		%REC	2	03/04/2014 6:15 PM	20384
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
Total 1,3-Dichloropropene	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
1,1,1-Trichloroethane	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
1,1,2,2-Tetrachloroethane	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
1,1,2-Trichloroethane	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
1,1-Dichloroethane	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
1,1-Dichloroethene	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
1,2-Dichloroethane	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
1,2-Dichloropropane	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
2-Butanone	<0.00933	0.00933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
2-Hexanone	<0.0233	0.0233		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102
Workorder: 1402924

Client Sample ID: B-110 (4-8)
Matrix: SOIL
Lab ID: 1402924-007
Date Received: 02/20/2014 4:15 PM
Collection Date: 02/19/2014 11:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
4-Methyl-2-pentanone	<0.0233	0.0233		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
Acetone	<0.0233	0.0233		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
Benzene	<0.000233	0.000233		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
Bromodichloromethane	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
Bromoform	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
Bromomethane	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
Carbon disulfide	0.00161	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
Carbon tetrachloride	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
Chlorobenzene	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
Chloroethane	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
Chloroform	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
Chloromethane	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
cis-1,2-Dichloroethene	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
cis-1,3-Dichloropropene	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
Dibromochloromethane	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
Ethylbenzene	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
m,p-Xylene	0.00280	0.00187		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
Methyl tert-butyl ether	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
Methylene chloride	<0.00466	0.00466		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
o-Xylene	0.00114	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
Total Xylenes	0.00394	0.00187		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
Styrene	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
Tetrachloroethene	<0.00187	0.00187		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
Toluene	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
trans-1,2-Dichloroethene	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
trans-1,3-Dichloropropene	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
Trichloroethene	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
Vinyl chloride	<0.000933	0.000933		mg/Kg-dry	0.76	02/25/2014 6:38 PM	R44211
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	111	61.55-121		%REC	0.76	02/25/2014 6:38 PM	R44211
SS: Dibromofluoromethane	96.3	71.4-147		%REC	0.76	02/25/2014 6:38 PM	R44211
SS: Toluene-d8	96.3	61-135		%REC	0.76	02/25/2014 6:38 PM	R44211
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,2,4-Trichlorobenzene	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
1,2-Dichlorobenzene	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102
Workorder: 1402924

Client Sample ID: B-110 (4-8)
Matrix: SOIL
Lab ID: 1402924-007
Date Received: 02/20/2014 4:15 PM
Collection Date: 02/19/2014 11:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,3-Dichlorobenzene	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
1,4-Dichlorobenzene	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
2,4,5-Trichlorophenol	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
2,4,6-Trichlorophenol	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
2,4-Dichlorophenol	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
2,4-Dimethylphenol	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
2,4-Dinitrophenol	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
2,4-Dinitrotoluene	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
2,6-Dinitrotoluene	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
2-Chloronaphthalene	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
2-Chlorophenol	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
2-Methylnaphthalene	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
2-Nitroaniline	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
2-Nitrophenol	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
3,3-Dichlorobenzidine	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
3-Nitroaniline	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
4,6-Dinitro-2-methylphenol	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
4-Bromophenyl phenyl ether	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
4-Chloro-3-methylphenol	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
4-Chloroaniline	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
4-Chlorophenyl phenyl ether	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
4-Nitroaniline	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
4-Nitrophenol	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Acenaphthene	<0.0610	0.0610		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Acenaphthylene	<0.0610	0.0610		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Anthracene	<0.0610	0.0610		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Benzo(a)anthracene	<0.0610	0.0610		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Benzo(a)pyrene	<0.0610	0.0610		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Benzo(b)fluoranthene	<0.0610	0.0610		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Benzo(g,h,i)perylene	<0.0610	0.0610		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Benzo(k)fluoranthene	<0.0610	0.0610		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Bis(2-chloroethoxy)methane	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Bis(2-chloroethyl)ether	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Bis(2-chloroisopropyl)ether	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Bis(2-ethylhexyl)phthalate	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Butyl benzyl phthalate	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Carbazole	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102
Workorder: **1402924**

Client Sample ID: **B-110 (4-8)**
Matrix: SOIL
Lab ID: 1402924-007
Date Received: 02/20/2014 4:15 PM
Collection Date: 02/19/2014 11:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Chrysene	<0.0610	0.0610		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Dibenzo(a,h)anthracene	<0.0610	0.0610		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Dibenzofuran	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Diethyl phthalate	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Dimethyl phthalate	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Di-n-butyl phthalate	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Di-n-octyl phthalate	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Fluoranthene	<0.0610	0.0610		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Fluorene	<0.0610	0.0610		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Hexachlorobenzene	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Hexachlorobutadiene	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Hexachlorocyclopentadiene	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Hexachloroethane	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Indeno(1,2,3-cd)pyrene	<0.0610	0.0610		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Isophorone	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
m,p-Cresol	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Naphthalene	<0.0610	0.0610		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Nitrobenzene	<0.0610	0.0610		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
N-Nitroso-di-n-propylamine	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
N-Nitrosodiphenylamine	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
o-Cresol	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Pentachlorophenol	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Phenanthrene	<0.0610	0.0610		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Phenol	<0.305	0.305		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Pyrene	<0.0610	0.0610		mg/Kg-dry	1	02/27/2014 9:24 PM	20383
Internal Quality Control Compounds							
SS: 2,4,6-Tribromophenol	77.3	0.1-136		%REC	1	02/27/2014 9:24 PM	20383
SS: 2-Fluorobiphenyl	60.7	16.3-118		%REC	1	02/27/2014 9:24 PM	20383
SS: 2-Fluorophenol	67.0	4.2-97		%REC	1	02/27/2014 9:24 PM	20383
SS: 4-Terphenyl-d14	77.6	0.1-147		%REC	1	02/27/2014 9:24 PM	20383
SS: Nitrobenzene-d5	51.9	0.1-119		%REC	1	02/27/2014 9:24 PM	20383
SS: Phenol-d5	64.1	9.82-111		%REC	1	02/27/2014 9:24 PM	20383
CYANIDE, TOTAL		Method: EPA-9014-Rev 0, Dec-96				Analyst: LAP	
Cyanide	<0.12	0.12		mg/Kg-dry	10	02/26/2014 12:58 PM	R44286
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: jmk	

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: **1402924**

Client Sample ID: **B-110 (4-8)**
Lab ID: 1402924-007 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 11:30 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: jmk	
Mercury	<0.0227	0.0227		mg/Kg-dry	1	03/05/2014 1:47 PM	20520
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: mjs	
ICP Specific Percent Moisture	18.53			wt%	1	02/25/2014 3:58 PM	R44237
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	8.64			pH Units	1	02/21/2014 11:54 AM	R44109
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	19	1.0		wt%	1	02/26/2014 3:01 PM	R44280

Client Sample ID: **B-111 (0-3)**
Lab ID: 1402924-008 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 12:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402924

Client Sample ID: B-111 (0-3)
Lab ID: 1402924-008
Date Received: 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 12:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	1.62	1.11	J	mg/Kg-dry	1	02/26/2014 5:29 PM	20416
Barium	61.5	0.120		mg/Kg-dry	1	02/26/2014 5:29 PM	20416
Cadmium	1.52	0.0721		mg/Kg-dry	1	02/26/2014 5:29 PM	20416
Chromium	14.3	0.0577		mg/Kg-dry	1	02/26/2014 5:29 PM	20416
Lead	137	0.577		mg/Kg-dry	1	02/26/2014 5:29 PM	20416
Selenium	<1.25	1.25		mg/Kg-dry	1	02/26/2014 5:29 PM	20416
Silver	<0.0577	0.0577		mg/Kg-dry	1	02/26/2014 5:29 PM	20416
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	<0.0479	0.0479		mg/Kg-dry	1	03/03/2014 4:38 PM	20423
Acenaphthylene	<0.0479	0.0479		mg/Kg-dry	1	03/03/2014 4:38 PM	20423
Anthracene	0.0619	0.0479		mg/Kg-dry	1	03/03/2014 4:38 PM	20423
Benzo(a)anthracene	0.199	0.0479		mg/Kg-dry	1	03/03/2014 4:38 PM	20423
Benzo(a)pyrene	0.228	0.0479		mg/Kg-dry	1	03/03/2014 4:38 PM	20423
Benzo(b)fluoranthene	0.282	0.0479		mg/Kg-dry	1	03/03/2014 4:38 PM	20423
Benzo(g,h,i)perylene	0.159	0.0479		mg/Kg-dry	1	03/03/2014 4:38 PM	20423
Benzo(k)fluoranthene	0.112	0.0479		mg/Kg-dry	1	03/03/2014 4:38 PM	20423
Chrysene	0.270	0.0479		mg/Kg-dry	1	03/03/2014 4:38 PM	20423
Dibenzo(a,h)anthracene	<0.0479	0.0479		mg/Kg-dry	1	03/03/2014 4:38 PM	20423
Fluoranthene	0.749	0.0479		mg/Kg-dry	1	03/03/2014 4:38 PM	20423
Fluorene	<0.0479	0.0479		mg/Kg-dry	1	03/03/2014 4:38 PM	20423
Indeno(1,2,3-cd)pyrene	0.128	0.0479		mg/Kg-dry	1	03/03/2014 4:38 PM	20423
Naphthalene	<0.0479	0.0479		mg/Kg-dry	1	03/03/2014 4:38 PM	20423
Phenanthrene	0.517	0.0479		mg/Kg-dry	1	03/03/2014 4:38 PM	20423
Pyrene	0.599	0.0479		mg/Kg-dry	1	03/03/2014 4:38 PM	20423
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	107	72.1-138		%REC	1	03/03/2014 4:38 PM	20423
SS: 4-Terphenyl-d14	122	45.3-152		%REC	1	03/03/2014 4:38 PM	20423
SS: Nitrobenzene-d5	101	62.6-144		%REC	1	03/03/2014 4:38 PM	20423
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: jmk	
Mercury	0.123	0.0227		mg/Kg-dry	1	03/05/2014 1:47 PM	20520
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: mjs	

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: **1402924**

Client Sample ID: **B-111 (0-3)**
Lab ID: 1402924-008 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 12:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: mjs	
ICP Specific Percent Moisture	17.45			wt%	1	02/25/2014 3:58 PM	R44237
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	8.52			pH Units	1	02/21/2014 11:39 AM	R44109
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	16	1.0		wt%	1	02/26/2014 3:01 PM	R44280

Client Sample ID: **B-112 (0-3)**
Lab ID: 1402924-009 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 12:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402924

Client Sample ID: B-112 (0-3)
Lab ID: 1402924-009
Date Received: 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 12:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	5.75	1.10		mg/Kg-dry	1	02/26/2014 5:39 PM	20416
Barium	73.5	0.119		mg/Kg-dry	1	02/26/2014 5:39 PM	20416
Cadmium	1.36	0.0714		mg/Kg-dry	1	02/26/2014 5:39 PM	20416
Chromium	12.2	0.0571		mg/Kg-dry	1	02/26/2014 5:39 PM	20416
Lead	177	0.571		mg/Kg-dry	1	02/26/2014 5:39 PM	20416
Selenium	<1.24	1.24		mg/Kg-dry	1	02/26/2014 5:39 PM	20416
Silver	<0.0571	0.0571		mg/Kg-dry	1	02/26/2014 5:39 PM	20416
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	0.293	0.0452		mg/Kg-dry	1	03/03/2014 5:13 PM	20423
Acenaphthylene	0.233	0.0452		mg/Kg-dry	1	03/03/2014 5:13 PM	20423
Anthracene	1.07	0.0452		mg/Kg-dry	1	03/03/2014 5:13 PM	20423
Benzo(a)anthracene	4.47	0.0452		mg/Kg-dry	1	03/03/2014 5:13 PM	20423
Benzo(a)pyrene	3.75	0.0452		mg/Kg-dry	1	03/03/2014 5:13 PM	20423
Benzo(b)fluoranthene	4.39	0.0452		mg/Kg-dry	1	03/03/2014 5:13 PM	20423
Benzo(g,h,i)perylene	1.94	0.0452		mg/Kg-dry	1	03/03/2014 5:13 PM	20423
Benzo(k)fluoranthene	1.29	0.0452		mg/Kg-dry	1	03/03/2014 5:13 PM	20423
Chrysene	3.53	0.0452		mg/Kg-dry	1	03/03/2014 5:13 PM	20423
Dibenzo(a,h)anthracene	0.487	0.0452		mg/Kg-dry	1	03/03/2014 5:13 PM	20423
Fluoranthene	6.15	0.452		mg/Kg-dry	10	03/01/2014 12:25 PM	20423
Fluorene	0.292	0.0452		mg/Kg-dry	1	03/03/2014 5:13 PM	20423
Indeno(1,2,3-cd)pyrene	1.85	0.0452		mg/Kg-dry	1	03/03/2014 5:13 PM	20423
Naphthalene	0.184	0.0452		mg/Kg-dry	1	03/03/2014 5:13 PM	20423
Phenanthrene	4.24	0.0452		mg/Kg-dry	1	03/03/2014 5:13 PM	20423
Pyrene	5.25	0.452		mg/Kg-dry	10	03/01/2014 12:25 PM	20423
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	107	72.1-138		%REC	1	03/03/2014 5:13 PM	20423
SS: 4-Terphenyl-d14	106	45.3-152		%REC	1	03/03/2014 5:13 PM	20423
SS: Nitrobenzene-d5	100	62.6-144		%REC	1	03/03/2014 5:13 PM	20423
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: jmk	
Mercury	0.469	0.0230		mg/Kg-dry	1	03/05/2014 1:47 PM	20520
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: mjs	

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: **1402924**

Client Sample ID: **B-112 (0-3)**
Lab ID: 1402924-009 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 12:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: mjs	
ICP Specific Percent Moisture	13.34			wt%	1	02/25/2014 3:58 PM	R44237
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	9.84			pH Units	1	02/21/2014 11:12 AM	R44109
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	13	1.0		wt%	1	02/26/2014 3:01 PM	R44280

Client Sample ID: **B-113 (0-3)**
Lab ID: 1402924-010 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 1:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402924

Client Sample ID: B-113 (0-3)
Lab ID: 1402924-010 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 1:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	7.92	1.12		mg/Kg-dry	1	02/26/2014 5:50 PM	20416
Barium	197	0.121		mg/Kg-dry	1	02/26/2014 5:50 PM	20416
Cadmium	1.74	0.0728		mg/Kg-dry	1	02/26/2014 5:50 PM	20416
Chromium	12.0	0.0583		mg/Kg-dry	1	02/26/2014 5:50 PM	20416
Lead	275	0.583		mg/Kg-dry	1	02/26/2014 5:50 PM	20416
Selenium	<1.26	1.26		mg/Kg-dry	1	02/26/2014 5:50 PM	20416
Silver	0.204	0.0583	J	mg/Kg-dry	1	02/26/2014 5:50 PM	20416
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	0.393	0.0481		mg/Kg-dry	1	03/03/2014 8:10 PM	20423
Acenaphthylene	0.158	0.0481		mg/Kg-dry	1	03/03/2014 8:10 PM	20423
Anthracene	1.27	0.0481		mg/Kg-dry	1	03/03/2014 8:10 PM	20423
Benzo(a)anthracene	3.07	0.0481		mg/Kg-dry	1	03/03/2014 8:10 PM	20423
Benzo(a)pyrene	2.69	0.0481		mg/Kg-dry	1	03/03/2014 8:10 PM	20423
Benzo(b)fluoranthene	2.92	0.0481		mg/Kg-dry	1	03/03/2014 8:10 PM	20423
Benzo(g,h,i)perylene	1.09	0.0481		mg/Kg-dry	1	03/03/2014 8:10 PM	20423
Benzo(k)fluoranthene	0.710	0.0481		mg/Kg-dry	1	03/03/2014 8:10 PM	20423
Chrysene	2.56	0.0481		mg/Kg-dry	1	03/03/2014 8:10 PM	20423
Dibenzo(a,h)anthracene	0.305	0.0481		mg/Kg-dry	1	03/03/2014 8:10 PM	20423
Fluoranthene	4.68	0.481		mg/Kg-dry	10	03/01/2014 3:19 PM	20423
Fluorene	0.522	0.0481		mg/Kg-dry	1	03/03/2014 8:10 PM	20423
Indeno(1,2,3-cd)pyrene	0.994	0.0481		mg/Kg-dry	1	03/03/2014 8:10 PM	20423
Naphthalene	0.649	0.0481		mg/Kg-dry	1	03/03/2014 8:10 PM	20423
Phenanthrene	4.52	0.0481		mg/Kg-dry	1	03/03/2014 8:10 PM	20423
Pyrene	4.15	0.481		mg/Kg-dry	10	03/01/2014 3:19 PM	20423
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	103	72.1-138		%REC	1	03/03/2014 8:10 PM	20423
SS: 4-Terphenyl-d14	105	45.3-152		%REC	1	03/03/2014 8:10 PM	20423
SS: Nitrobenzene-d5	106	62.6-144		%REC	1	03/03/2014 8:10 PM	20423
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: jmk	
Mercury	0.369	0.0241		mg/Kg-dry	1	03/05/2014 1:47 PM	20520
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: mjs	

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102
Workorder: 1402924

Client Sample ID: B-113 (0-3)
Matrix: SOIL
Lab ID: 1402924-010
Date Received: 02/20/2014 4:15 PM
Collection Date: 02/19/2014 1:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: mjs	
ICP Specific Percent Moisture	16.25			wt%	1	02/25/2014 3:58 PM	R44237
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	8.35			pH Units	1	02/21/2014 11:56 AM	R44109
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	17	1.0		wt%	1	02/26/2014 3:01 PM	R44280

Client Sample ID: B-114 (0-3)
Matrix: SOIL
Lab ID: 1402924-011
Date Received: 02/20/2014 4:15 PM
Collection Date: 02/19/2014 1:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102
Workorder: **1402924**

Client Sample ID: **B-114 (0-3)**
Matrix: SOIL
Lab ID: 1402924-011
Date Received: 02/20/2014 4:15 PM
Collection Date: 02/19/2014 1:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	1.21	1.11	J	mg/Kg-dry	1	02/26/2014 6:00 PM	20416
Barium	78.2	0.120		mg/Kg-dry	1	02/26/2014 6:00 PM	20416
Cadmium	1.12	0.0721		mg/Kg-dry	1	02/26/2014 6:00 PM	20416
Chromium	11.0	0.0577		mg/Kg-dry	1	02/26/2014 6:00 PM	20416
Lead	130	0.577		mg/Kg-dry	1	02/26/2014 6:00 PM	20416
Selenium	<1.25	1.25		mg/Kg-dry	1	02/26/2014 6:00 PM	20416
Silver	<0.0577	0.0577		mg/Kg-dry	1	02/26/2014 6:00 PM	20416
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	<0.455	0.455		mg/Kg-dry	10	03/01/2014 12:59 PM	20423
Acenaphthylene	<0.455	0.455		mg/Kg-dry	10	03/01/2014 12:59 PM	20423
Anthracene	0.862	0.455		mg/Kg-dry	10	03/01/2014 12:59 PM	20423
Benzo(a)anthracene	4.90	0.455		mg/Kg-dry	10	03/01/2014 12:59 PM	20423
Benzo(a)pyrene	4.40	0.455		mg/Kg-dry	10	03/01/2014 12:59 PM	20423
Benzo(b)fluoranthene	5.75	0.455		mg/Kg-dry	10	03/01/2014 12:59 PM	20423
Benzo(g,h,i)perylene	2.35	0.455		mg/Kg-dry	10	03/01/2014 12:59 PM	20423
Benzo(k)fluoranthene	2.14	0.455		mg/Kg-dry	10	03/01/2014 12:59 PM	20423
Chrysene	5.01	0.455		mg/Kg-dry	10	03/01/2014 12:59 PM	20423
Dibenzo(a,h)anthracene	0.580	0.455		mg/Kg-dry	10	03/01/2014 12:59 PM	20423
Fluoranthene	9.56	0.455		mg/Kg-dry	10	03/01/2014 12:59 PM	20423
Fluorene	<0.455	0.455		mg/Kg-dry	10	03/01/2014 12:59 PM	20423
Indeno(1,2,3-cd)pyrene	2.07	0.455		mg/Kg-dry	10	03/01/2014 12:59 PM	20423
Naphthalene	<0.455	0.455		mg/Kg-dry	10	03/01/2014 12:59 PM	20423
Phenanthrene	2.10	0.455		mg/Kg-dry	10	03/01/2014 12:59 PM	20423
Pyrene	7.26	0.455		mg/Kg-dry	10	03/01/2014 12:59 PM	20423
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	88.6	72.1-138		%REC	10	03/01/2014 12:59 PM	20423
SS: 4-Terphenyl-d14	87.0	45.3-152		%REC	10	03/01/2014 12:59 PM	20423
SS: Nitrobenzene-d5	84.3	62.6-144		%REC	10	03/01/2014 12:59 PM	20423
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: jmk	
Mercury	0.147	0.0225		mg/Kg-dry	1	03/05/2014 1:47 PM	20520
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: mjs	

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: **1402924**

Client Sample ID: **B-114 (0-3)**
Lab ID: 1402924-011 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 1:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: mjs	
ICP Specific Percent Moisture	11.96			wt%	1	02/25/2014 3:58 PM	R44237
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	8.58			pH Units	1	02/26/2014 5:50 PM	R44302
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	14	1.0		wt%	1	02/26/2014 3:01 PM	R44280

Client Sample ID: **B-115 (4-8)**
Lab ID: 1402924-014 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 2:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102
Workorder: **1402924**

Client Sample ID: **B-115 (4-8)**
Matrix: SOIL
Lab ID: 1402924-014
Date Received: 02/20/2014 4:15 PM
Collection Date: 02/19/2014 2:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	2.52	1.11	J	mg/Kg-dry	1	02/26/2014 6:52 PM	20416
Barium	7.16	0.120		mg/Kg-dry	1	02/26/2014 6:52 PM	20416
Cadmium	0.684	0.0721		mg/Kg-dry	1	02/26/2014 6:52 PM	20416
Chromium	4.16	0.0577		mg/Kg-dry	1	02/26/2014 6:52 PM	20416
Lead	5.03	0.577		mg/Kg-dry	1	02/26/2014 6:52 PM	20416
Selenium	<1.25	1.25		mg/Kg-dry	1	02/26/2014 6:52 PM	20416
Silver	<0.0577	0.0577		mg/Kg-dry	1	02/26/2014 6:52 PM	20416
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
Total 1,3-Dichloropropene	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
1,1,1-Trichloroethane	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
1,1,2,2-Tetrachloroethane	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
1,1,2-Trichloroethane	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
1,1-Dichloroethane	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
1,1-Dichloroethene	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
1,2-Dichloroethane	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
1,2-Dichloropropane	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
2-Butanone	<0.00993	0.00993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
2-Hexanone	<0.0248	0.0248		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
4-Methyl-2-pentanone	<0.0248	0.0248		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
Acetone	<0.0248	0.0248		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
Benzene	<0.000248	0.000248		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
Bromodichloromethane	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
Bromoform	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
Bromomethane	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
Carbon disulfide	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
Carbon tetrachloride	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
Chlorobenzene	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
Chloroethane	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
Chloroform	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
Chloromethane	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
cis-1,2-Dichloroethene	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
cis-1,3-Dichloropropene	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
Dibromochloromethane	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
Ethylbenzene	0.00214	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102
Workorder: **1402924**

Client Sample ID: **B-115 (4-8)**
Matrix: SOIL
Lab ID: 1402924-014
Date Received: 02/20/2014 4:15 PM
Collection Date: 02/19/2014 2:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
m,p-Xylene	0.00372	0.00199		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
Methyl tert-butyl ether	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
Methylene chloride	<0.00497	0.00497		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
o-Xylene	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
Total Xylenes	0.00372	0.00199		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
Styrene	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
Tetrachloroethene	<0.00199	0.00199		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
Toluene	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
trans-1,2-Dichloroethene	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
trans-1,3-Dichloropropene	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
Trichloroethene	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
Vinyl chloride	<0.000993	0.000993		mg/Kg-dry	0.8	02/25/2014 7:15 PM	R44211
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	176	61.55-121	S	%REC	0.8	02/25/2014 7:15 PM	R44211
SS: Dibromofluoromethane	98.4	71.4-147		%REC	0.8	02/25/2014 7:15 PM	R44211
SS: Toluene-d8	105	61-135		%REC	0.8	02/25/2014 7:15 PM	R44211
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	0.107	0.0493		mg/Kg-dry	1	03/01/2014 8:56 AM	20423
Acenaphthylene	0.0526	0.0493		mg/Kg-dry	1	03/01/2014 8:56 AM	20423
Anthracene	0.0525	0.0493		mg/Kg-dry	1	03/01/2014 8:56 AM	20423
Benzo(a)anthracene	<0.0493	0.0493		mg/Kg-dry	1	03/01/2014 8:56 AM	20423
Benzo(a)pyrene	<0.0493	0.0493		mg/Kg-dry	1	03/01/2014 8:56 AM	20423
Benzo(b)fluoranthene	<0.0493	0.0493		mg/Kg-dry	1	03/01/2014 8:56 AM	20423
Benzo(g,h,i)perylene	<0.0493	0.0493		mg/Kg-dry	1	03/01/2014 8:56 AM	20423
Benzo(k)fluoranthene	<0.0493	0.0493		mg/Kg-dry	1	03/01/2014 8:56 AM	20423
Chrysene	<0.0493	0.0493		mg/Kg-dry	1	03/01/2014 8:56 AM	20423
Dibenzo(a,h)anthracene	<0.0493	0.0493		mg/Kg-dry	1	03/01/2014 8:56 AM	20423
Fluoranthene	<0.0493	0.0493		mg/Kg-dry	1	03/01/2014 8:56 AM	20423
Fluorene	0.249	0.0493		mg/Kg-dry	1	03/01/2014 8:56 AM	20423
Indeno(1,2,3-cd)pyrene	<0.0493	0.0493		mg/Kg-dry	1	03/01/2014 8:56 AM	20423
Naphthalene	<0.0493	0.0493		mg/Kg-dry	1	03/01/2014 8:56 AM	20423
Phenanthrene	0.379	0.0493		mg/Kg-dry	1	03/01/2014 8:56 AM	20423
Pyrene	<0.0493	0.0493		mg/Kg-dry	1	03/01/2014 8:56 AM	20423
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	97.4	72.1-138		%REC	1	03/01/2014 8:56 AM	20423

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: **1402924**

Client Sample ID: **B-115 (4-8)**
Lab ID: 1402924-014 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 2:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
SS: 4-Terphenyl-d14	116	45.3-152		%REC	1	03/01/2014 8:56 AM	20423
SS: Nitrobenzene-d5	109	62.6-144		%REC	1	03/01/2014 8:56 AM	20423
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: jmk	
Mercury	<0.0248	0.0248		mg/Kg-dry	1	03/05/2014 1:47 PM	20520
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: mjs	
ICP Specific Percent Moisture	19.32			wt%	1	02/25/2014 3:58 PM	R44237
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	7.74			pH Units	1	02/26/2014 5:16 PM	R44302
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	19	1.0		wt%	1	02/26/2014 3:01 PM	R44280
TRPH BY EPA 8440		Method: SW-8440M-Rev 0				Analyst: maa	
TRPH	281	40.6		mg/Kg-dry	1	02/27/2014 4:36 PM	20437

Client Sample ID: **B-116 (0-3)**
Lab ID: 1402924-015 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 2:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402924

Client Sample ID: B-116 (0-3)
Lab ID: 1402924-015 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 2:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	2.10	1.14	J	mg/Kg-dry	1	02/26/2014 7:03 PM	20416
Barium	282	0.124		mg/Kg-dry	1	02/26/2014 7:03 PM	20416
Cadmium	1.28	0.0743		mg/Kg-dry	1	02/26/2014 7:03 PM	20416
Chromium	11.5	0.0594		mg/Kg-dry	1	02/26/2014 7:03 PM	20416
Lead	711	0.594		mg/Kg-dry	1	02/26/2014 7:03 PM	20416
Selenium	<1.29	1.29		mg/Kg-dry	1	02/26/2014 7:03 PM	20416
Silver	0.215	0.0594	J	mg/Kg-dry	1	02/26/2014 7:03 PM	20416
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	<0.0467	0.0467		mg/Kg-dry	1	03/03/2014 5:47 PM	20423
Acenaphthylene	<0.0467	0.0467		mg/Kg-dry	1	03/03/2014 5:47 PM	20423
Anthracene	<0.0467	0.0467		mg/Kg-dry	1	03/03/2014 5:47 PM	20423
Benzo(a)anthracene	0.164	0.0467		mg/Kg-dry	1	03/03/2014 5:47 PM	20423
Benzo(a)pyrene	0.167	0.0467		mg/Kg-dry	1	03/03/2014 5:47 PM	20423
Benzo(b)fluoranthene	0.198	0.0467		mg/Kg-dry	1	03/03/2014 5:47 PM	20423
Benzo(g,h,i)perylene	0.228	0.0467		mg/Kg-dry	1	03/03/2014 5:47 PM	20423
Benzo(k)fluoranthene	0.0728	0.0467		mg/Kg-dry	1	03/03/2014 5:47 PM	20423
Chrysene	0.245	0.0467		mg/Kg-dry	1	03/03/2014 5:47 PM	20423
Dibenzo(a,h)anthracene	0.0535	0.0467		mg/Kg-dry	1	03/03/2014 5:47 PM	20423
Fluoranthene	0.213	0.0467		mg/Kg-dry	1	03/03/2014 5:47 PM	20423
Fluorene	<0.0467	0.0467		mg/Kg-dry	1	03/03/2014 5:47 PM	20423
Indeno(1,2,3-cd)pyrene	0.132	0.0467		mg/Kg-dry	1	03/03/2014 5:47 PM	20423
Naphthalene	0.0873	0.0467		mg/Kg-dry	1	03/03/2014 5:47 PM	20423
Phenanthrene	0.132	0.0467		mg/Kg-dry	1	03/03/2014 5:47 PM	20423
Pyrene	0.244	0.0467		mg/Kg-dry	1	03/03/2014 5:47 PM	20423
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	99.0	72.1-138		%REC	1	03/03/2014 5:47 PM	20423
SS: 4-Terphenyl-d14	111	45.3-152		%REC	1	03/03/2014 5:47 PM	20423
SS: Nitrobenzene-d5	104	62.6-144		%REC	1	03/03/2014 5:47 PM	20423
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: jmk	
Mercury	0.105	0.0228		mg/Kg-dry	1	03/05/2014 1:47 PM	20520
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: mjs	

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: **1402924**

Client Sample ID: **B-116 (0-3)**
Lab ID: 1402924-015 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 2:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: mjs	
ICP Specific Percent Moisture	14.89			wt%	1	02/25/2014 3:58 PM	R44237
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	11.2		E	pH Units	1	02/21/2014 11:45 AM	R44109
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	15	1.0		wt%	1	02/26/2014 3:01 PM	R44280

Client Sample ID: **SB-16 (4-8)**
Lab ID: 1402924-016 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 2:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402924

Client Sample ID: SB-16 (4-8)
Lab ID: 1402924-016
Date Received: 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 2:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Aluminum	2,510	2.43		mg/Kg-dry	1	02/24/2014 2:57 PM	20347
Antimony	7.49	1.46		mg/Kg-dry	1	02/24/2014 2:57 PM	20347
Arsenic	3.11	1.12	J	mg/Kg-dry	1	02/24/2014 2:57 PM	20347
Barium	24.3	0.121		mg/Kg-dry	1	02/24/2014 2:57 PM	20347
Beryllium	0.107	0.0359	J	mg/Kg-dry	1	02/24/2014 2:57 PM	20347
Cadmium	0.781	0.0728		mg/Kg-dry	1	02/24/2014 2:57 PM	20347
Calcium	63,800	6.07		mg/Kg-dry	10	02/25/2014 5:59 PM	20347
Chromium	5.85	0.0583		mg/Kg-dry	1	02/24/2014 2:57 PM	20347
Cobalt	4.58	0.121		mg/Kg-dry	1	02/24/2014 2:57 PM	20347
Copper	9.20	0.146		mg/Kg-dry	1	02/24/2014 2:57 PM	20347
Iron	7,440	0.607		mg/Kg-dry	1	02/24/2014 2:57 PM	20347
Lead	31.5	0.583		mg/Kg-dry	1	02/24/2014 2:57 PM	20347
Magnesium	19,800	0.607		mg/Kg-dry	1	02/24/2014 2:57 PM	20347
Manganese	327	0.0583		mg/Kg-dry	1	02/24/2014 2:57 PM	20347
Nickel	8.71	0.228		mg/Kg-dry	1	02/24/2014 2:57 PM	20347
Potassium	455	2.43		mg/Kg-dry	1	02/24/2014 2:57 PM	20347
Selenium	<1.26	1.26		mg/Kg-dry	1	02/24/2014 2:57 PM	20347
Silver	<0.0583	0.0583		mg/Kg-dry	1	02/24/2014 2:57 PM	20347
Sodium	107	1.21		mg/Kg-dry	1	02/26/2014 2:56 PM	20347
Thallium	<0.432	0.432		mg/Kg-dry	1	02/24/2014 2:57 PM	20347
Vanadium	10.0	0.146		mg/Kg-dry	1	02/24/2014 2:57 PM	20347
Zinc	35.5	0.0728		mg/Kg-dry	1	02/24/2014 2:57 PM	20347
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96				Analyst: mn	
4,4´-DDD	<0.00204	0.00204		mg/Kg-dry	1	02/28/2014 3:01 PM	20385
4,4´-DDE	<0.00204	0.00204		mg/Kg-dry	1	02/28/2014 3:01 PM	20385
4,4´-DDT	<0.00204	0.00204		mg/Kg-dry	1	02/28/2014 3:01 PM	20385
Aldrin	<0.00102	0.00102		mg/Kg-dry	1	02/28/2014 3:01 PM	20385
alpha-BHC	<0.00102	0.00102		mg/Kg-dry	1	02/28/2014 3:01 PM	20385
alpha-Chlordane	<0.00102	0.00102		mg/Kg-dry	1	02/28/2014 3:01 PM	20385
beta-BHC	<0.00102	0.00102		mg/Kg-dry	1	02/28/2014 3:01 PM	20385
Chlordane	<0.0203	0.0203		mg/Kg-dry	1	02/28/2014 3:01 PM	20385
delta-BHC	<0.00102	0.00102		mg/Kg-dry	1	02/28/2014 3:01 PM	20385
Dieldrin	<0.00204	0.00204		mg/Kg-dry	1	02/28/2014 3:01 PM	20385
Endosulfan I	<0.00102	0.00102		mg/Kg-dry	1	02/28/2014 3:01 PM	20385

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102
Workorder: 1402924

Client Sample ID: SB-16 (4-8)
Matrix: SOIL
Lab ID: 1402924-016
Date Received: 02/20/2014 4:15 PM
Collection Date: 02/19/2014 2:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96				Analyst: mn	
Endosulfan II	<0.00204	0.00204		mg/Kg-dry	1	02/28/2014 3:01 PM	20385
Endosulfan sulfate	<0.00204	0.00204		mg/Kg-dry	1	02/28/2014 3:01 PM	20385
Endrin	<0.00204	0.00204		mg/Kg-dry	1	02/28/2014 3:01 PM	20385
Endrin aldehyde	<0.00204	0.00204		mg/Kg-dry	1	02/28/2014 3:01 PM	20385
Endrin ketone	<0.00204	0.00204		mg/Kg-dry	1	02/28/2014 3:01 PM	20385
gamma-BHC	<0.00102	0.00102		mg/Kg-dry	1	02/28/2014 6:17 PM	20385
gamma-Chlordane	<0.00102	0.00102		mg/Kg-dry	1	02/28/2014 3:01 PM	20385
Heptachlor	<0.00102	0.00102		mg/Kg-dry	1	02/28/2014 3:01 PM	20385
Heptachlor epoxide	<0.00102	0.00102		mg/Kg-dry	1	02/28/2014 3:01 PM	20385
Methoxychlor	<0.0102	0.0102		mg/Kg-dry	1	02/28/2014 3:01 PM	20385
Toxaphene	<0.0406	0.0406		mg/Kg-dry	1	02/28/2014 3:01 PM	20385
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	53.5	33.7-156		%REC	1	02/28/2014 3:01 PM	20385
PCBS		Method: EPA-8082-Rev 0, Dec-96				Analyst: mn	
Aroclor 1016	<0.0408	0.0408		mg/Kg-dry	2	03/04/2014 6:34 PM	20384
Aroclor 1221	<0.0408	0.0408		mg/Kg-dry	2	03/04/2014 6:34 PM	20384
Aroclor 1232	<0.0408	0.0408		mg/Kg-dry	2	03/04/2014 6:34 PM	20384
Aroclor 1242	<0.0408	0.0408		mg/Kg-dry	2	03/04/2014 6:34 PM	20384
Aroclor 1248	<0.0408	0.0408		mg/Kg-dry	2	03/04/2014 6:34 PM	20384
Aroclor 1254	<0.0408	0.0408		mg/Kg-dry	2	03/04/2014 6:34 PM	20384
Aroclor 1260	<0.0408	0.0408		mg/Kg-dry	2	03/04/2014 6:34 PM	20384
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	40.0	33.7-156		%REC	2	03/04/2014 6:34 PM	20384
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
Total 1,3-Dichloropropene	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
1,1,1-Trichloroethane	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
1,1,2,2-Tetrachloroethane	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
1,1,2-Trichloroethane	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
1,1-Dichloroethane	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
1,1-Dichloroethene	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
1,2-Dichloroethane	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
1,2-Dichloropropane	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
2-Butanone	<0.0103	0.0103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
2-Hexanone	<0.0256	0.0256		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211

Suburban Laboratories, Inc.
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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402924

Client Sample ID: SB-16 (4-8)
Lab ID: 1402924-016
Date Received: 02/20/2014 4:15 PM
Matrix: SOIL
Collection Date: 02/19/2014 2:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
4-Methyl-2-pentanone	<0.0256	0.0256		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
Acetone	0.104	0.0256		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
Benzene	<0.000256	0.000256		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
Bromodichloromethane	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
Bromoform	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
Bromomethane	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
Carbon disulfide	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
Carbon tetrachloride	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
Chlorobenzene	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
Chloroethane	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
Chloroform	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
Chloromethane	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
cis-1,2-Dichloroethene	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
cis-1,3-Dichloropropene	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
Dibromochloromethane	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
Ethylbenzene	0.00790	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
m,p-Xylene	0.00730	0.00205		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
Methyl tert-butyl ether	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
Methylene chloride	<0.00513	0.00513		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
o-Xylene	0.0163	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
Total Xylenes	0.0236	0.00205		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
Styrene	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
Tetrachloroethene	<0.00205	0.00205		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
Toluene	0.00209	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
trans-1,2-Dichloroethene	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
trans-1,3-Dichloropropene	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
Trichloroethene	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
Vinyl chloride	<0.00103	0.00103		mg/Kg-dry	0.83	02/25/2014 4:47 PM	R44211
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	562	61.55-121	S	%REC	0.83	02/25/2014 4:47 PM	R44211
SS: Dibromofluoromethane	107	71.4-147		%REC	0.83	02/25/2014 4:47 PM	R44211
SS: Toluene-d8	78.2	61-135		%REC	0.83	02/25/2014 4:47 PM	R44211
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,2,4-Trichlorobenzene	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
1,2-Dichlorobenzene	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102
Workorder: **1402924**

Client Sample ID: **SB-16 (4-8)**
Matrix: SOIL
Lab ID: 1402924-016
Date Received: 02/20/2014 4:15 PM
Collection Date: 02/19/2014 2:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,3-Dichlorobenzene	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
1,4-Dichlorobenzene	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
2,4,5-Trichlorophenol	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
2,4,6-Trichlorophenol	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
2,4-Dichlorophenol	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
2,4-Dimethylphenol	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
2,4-Dinitrophenol	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
2,4-Dinitrotoluene	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
2,6-Dinitrotoluene	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
2-Chloronaphthalene	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
2-Chlorophenol	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
2-Methylnaphthalene	9.45	1.54		mg/Kg-dry	5	03/03/2014 12:20 PM	20383
2-Nitroaniline	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
2-Nitrophenol	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
3,3-Dichlorobenzidine	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
3-Nitroaniline	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
4,6-Dinitro-2-methylphenol	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
4-Bromophenyl phenyl ether	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
4-Chloro-3-methylphenol	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
4-Chloroaniline	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
4-Chlorophenyl phenyl ether	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
4-Nitroaniline	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
4-Nitrophenol	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Acenaphthene	0.547	0.0615		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Acenaphthylene	<0.0615	0.0615		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Anthracene	0.114	0.0615		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Benzo(a)anthracene	<0.0615	0.0615		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Benzo(a)pyrene	<0.0615	0.0615		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Benzo(b)fluoranthene	<0.0615	0.0615		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Benzo(g,h,i)perylene	<0.0615	0.0615		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Benzo(k)fluoranthene	<0.0615	0.0615		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Bis(2-chloroethoxy)methane	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Bis(2-chloroethyl)ether	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Bis(2-chloroisopropyl)ether	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Bis(2-ethylhexyl)phthalate	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Butyl benzyl phthalate	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Carbazole	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402924

Client Sample ID: SB-16 (4-8)
Lab ID: 1402924-016
Date Received: 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 2:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Chrysene	<0.0615	0.0615		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Dibenzo(a,h)anthracene	<0.0615	0.0615		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Dibenzofuran	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Diethyl phthalate	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Dimethyl phthalate	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Di-n-butyl phthalate	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Di-n-octyl phthalate	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Fluoranthene	<0.0615	0.0615		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Fluorene	0.871	0.0615		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Hexachlorobenzene	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Hexachlorobutadiene	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Hexachlorocyclopentadiene	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Hexachloroethane	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Indeno(1,2,3-cd)pyrene	<0.0615	0.0615		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Isophorone	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
m,p-Cresol	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Naphthalene	<0.0615	0.0615		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Nitrobenzene	<0.0615	0.0615		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
N-Nitroso-di-n-propylamine	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
N-Nitrosodiphenylamine	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
o-Cresol	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Pentachlorophenol	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Phenanthrene	1.75	0.0615		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Phenol	<0.308	0.308		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Pyrene	<0.0615	0.0615		mg/Kg-dry	1	02/27/2014 10:02 PM	20383
Internal Quality Control Compounds							
SS: 2,4,6-Tribromophenol	93.5	0.1-136		%REC	1	02/27/2014 10:02 PM	20383
SS: 2-Fluorobiphenyl	63.4	16.3-118		%REC	1	02/27/2014 10:02 PM	20383
SS: 2-Fluorophenol	66.2	4.2-97		%REC	1	02/27/2014 10:02 PM	20383
SS: 4-Terphenyl-d14	74.0	0.1-147		%REC	1	02/27/2014 10:02 PM	20383
SS: Nitrobenzene-d5	63.2	0.1-119		%REC	1	02/27/2014 10:02 PM	20383
SS: Phenol-d5	68.7	9.82-111		%REC	1	02/27/2014 10:02 PM	20383
CYANIDE, TOTAL		Method: EPA-9014-Rev 0, Dec-96				Analyst: LAP	
Cyanide	<0.12	0.12		mg/Kg-dry	10	02/25/2014 2:16 PM	R44227
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: jmk	

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: **1402924**

Client Sample ID: **SB-16 (4-8)**
Lab ID: 1402924-016 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 2:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: jmk	
Mercury	<0.0247	0.0247		mg/Kg-dry	1	03/05/2014 1:47 PM	20520
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: sls	
ICP Specific Percent Moisture	21.31			wt%	1	02/21/2014 4:25 PM	R44124
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	7.83			pH Units	1	02/21/2014 12:21 PM	R44109
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	19	1.0		wt%	1	02/24/2014 2:01 PM	R44176
TRPH BY EPA 8440		Method: SW-8440M-Rev 0				Analyst: maa	
TRPH	732	200		mg/Kg-dry	5	02/27/2014 4:36 PM	20437

Client Sample ID: **B-117 (0-3)**
Lab ID: 1402924-017 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 3:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402924

Client Sample ID: B-117 (0-3)
Lab ID: 1402924-017
Date Received: 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 3:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	<1.14	1.14		mg/Kg-dry	1	02/24/2014 3:55 PM	20347
Barium	234	0.124		mg/Kg-dry	1	02/24/2014 3:55 PM	20347
Cadmium	1.03	0.0743		mg/Kg-dry	1	02/24/2014 3:55 PM	20347
Chromium	9.73	0.0594		mg/Kg-dry	1	02/24/2014 3:55 PM	20347
Lead	72.4	0.594		mg/Kg-dry	1	02/24/2014 3:55 PM	20347
Selenium	<1.29	1.29		mg/Kg-dry	1	02/24/2014 3:55 PM	20347
Silver	4.90	0.0594		mg/Kg-dry	1	02/24/2014 3:55 PM	20347
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	0.0559	0.0474		mg/Kg-dry	1	03/01/2014 11:15 AM	20423
Acenaphthylene	<0.0474	0.0474		mg/Kg-dry	1	03/01/2014 11:15 AM	20423
Anthracene	0.159	0.0474		mg/Kg-dry	1	03/01/2014 11:15 AM	20423
Benzo(a)anthracene	0.447	0.0474		mg/Kg-dry	1	03/01/2014 11:15 AM	20423
Benzo(a)pyrene	0.484	0.0474		mg/Kg-dry	1	03/01/2014 11:15 AM	20423
Benzo(b)fluoranthene	0.612	0.0474		mg/Kg-dry	1	03/01/2014 11:15 AM	20423
Benzo(g,h,i)perylene	0.291	0.0474		mg/Kg-dry	1	03/01/2014 11:15 AM	20423
Benzo(k)fluoranthene	0.214	0.0474		mg/Kg-dry	1	03/01/2014 11:15 AM	20423
Chrysene	0.477	0.0474		mg/Kg-dry	1	03/01/2014 11:15 AM	20423
Dibenzo(a,h)anthracene	0.0637	0.0474		mg/Kg-dry	1	03/01/2014 11:15 AM	20423
Fluoranthene	1.11	0.0474		mg/Kg-dry	1	03/01/2014 11:15 AM	20423
Fluorene	0.0602	0.0474		mg/Kg-dry	1	03/01/2014 11:15 AM	20423
Indeno(1,2,3-cd)pyrene	0.254	0.0474		mg/Kg-dry	1	03/01/2014 11:15 AM	20423
Naphthalene	<0.0474	0.0474		mg/Kg-dry	1	03/01/2014 11:15 AM	20423
Phenanthrene	0.619	0.0474		mg/Kg-dry	1	03/01/2014 11:15 AM	20423
Pyrene	0.844	0.0474		mg/Kg-dry	1	03/01/2014 11:15 AM	20423
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	101	72.1-138		%REC	1	03/01/2014 11:15 AM	20423
SS: 4-Terphenyl-d14	108	45.3-152		%REC	1	03/01/2014 11:15 AM	20423
SS: Nitrobenzene-d5	102	62.6-144		%REC	1	03/01/2014 11:15 AM	20423
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: jmk	
Mercury	0.237	0.0219		mg/Kg-dry	1	03/05/2014 1:47 PM	20520
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: sls	

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: **1402924**

Client Sample ID: **B-117 (0-3)**
Lab ID: 1402924-017 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 3:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: sls	
ICP Specific Percent Moisture	14.61			wt%	1	02/21/2014 4:25 PM	R44124
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	8.67			pH Units	1	02/21/2014 12:16 PM	R44109
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	16	1.0		wt%	1	02/24/2014 2:01 PM	R44176

Client Sample ID: **S-118 (0-3)**
Lab ID: 1402924-018 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 3:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402924

Client Sample ID: S-118 (0-3)
Lab ID: 1402924-018 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 3:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	3.40	1.12	J	mg/Kg-dry	1	02/24/2014 4:04 PM	20347
Barium	46.9	0.121		mg/Kg-dry	1	02/24/2014 4:04 PM	20347
Cadmium	1.14	0.0728		mg/Kg-dry	1	02/24/2014 4:04 PM	20347
Chromium	8.93	0.0583		mg/Kg-dry	1	02/24/2014 4:04 PM	20347
Lead	4,430	0.583		mg/Kg-dry	1	02/24/2014 4:04 PM	20347
Selenium	<1.26	1.26		mg/Kg-dry	1	02/24/2014 4:04 PM	20347
Silver	0.881	0.0583		mg/Kg-dry	1	02/24/2014 4:04 PM	20347
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: jmk	
Mercury	0.318	0.0232		mg/Kg-dry	1	03/05/2014 1:47 PM	20520
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: sls	
ICP Specific Percent Moisture	17.19			wt%	1	02/21/2014 4:25 PM	R44124
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	10.4		E	pH Units	1	02/21/2014 11:47 AM	R44109
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	16	1.0		wt%	1	02/24/2014 2:01 PM	R44176

Client Sample ID: B-119 (0-3)
Lab ID: 1402924-019 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 3:15 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102
Workorder: **1402924**

Client Sample ID: **B-119 (0-3)**
Matrix: SOIL
Lab ID: 1402924-019
Date Received: 02/20/2014 4:15 PM
Collection Date: 02/19/2014 3:15 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	<1.12	1.12		mg/Kg-dry	1	02/24/2014 4:43 PM	20347
Barium	160	0.121		mg/Kg-dry	1	02/24/2014 4:43 PM	20347
Cadmium	3.36	0.0728		mg/Kg-dry	1	02/24/2014 4:43 PM	20347
Chromium	55.4	0.0583		mg/Kg-dry	1	02/24/2014 4:43 PM	20347
Lead	23.0	0.583		mg/Kg-dry	1	02/24/2014 4:43 PM	20347
Selenium	3.14	1.26	J	mg/Kg-dry	1	02/24/2014 4:43 PM	20347
Silver	<0.0583	0.0583		mg/Kg-dry	1	02/24/2014 4:43 PM	20347
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	<0.0469	0.0469		mg/Kg-dry	1	03/03/2014 6:58 PM	20423
Acenaphthylene	<0.0469	0.0469		mg/Kg-dry	1	03/03/2014 6:58 PM	20423
Anthracene	<0.0469	0.0469		mg/Kg-dry	1	03/03/2014 6:58 PM	20423
Benzo(a)anthracene	<0.0469	0.0469		mg/Kg-dry	1	03/03/2014 6:58 PM	20423
Benzo(a)pyrene	<0.0469	0.0469		mg/Kg-dry	1	03/03/2014 6:58 PM	20423
Benzo(b)fluoranthene	<0.0469	0.0469		mg/Kg-dry	1	03/03/2014 6:58 PM	20423
Benzo(g,h,i)perylene	<0.0469	0.0469		mg/Kg-dry	1	03/03/2014 6:58 PM	20423
Benzo(k)fluoranthene	<0.0469	0.0469		mg/Kg-dry	1	03/03/2014 6:58 PM	20423
Chrysene	<0.0469	0.0469		mg/Kg-dry	1	03/03/2014 6:58 PM	20423
Dibenzo(a,h)anthracene	<0.0469	0.0469		mg/Kg-dry	1	03/03/2014 6:58 PM	20423
Fluoranthene	<0.0469	0.0469		mg/Kg-dry	1	03/03/2014 6:58 PM	20423
Fluorene	<0.0469	0.0469		mg/Kg-dry	1	03/03/2014 6:58 PM	20423
Indeno(1,2,3-cd)pyrene	<0.0469	0.0469		mg/Kg-dry	1	03/03/2014 6:58 PM	20423
Naphthalene	<0.0469	0.0469		mg/Kg-dry	1	03/03/2014 6:58 PM	20423
Phenanthrene	<0.0469	0.0469		mg/Kg-dry	1	03/03/2014 6:58 PM	20423
Pyrene	<0.0469	0.0469		mg/Kg-dry	1	03/03/2014 6:58 PM	20423
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	104	72.1-138		%REC	1	03/03/2014 6:58 PM	20423
SS: 4-Terphenyl-d14	114	45.3-152		%REC	1	03/03/2014 6:58 PM	20423
SS: Nitrobenzene-d5	109	62.6-144		%REC	1	03/03/2014 6:58 PM	20423
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: jmk	
Mercury	<0.0216	0.0216		mg/Kg-dry	1	03/05/2014 1:47 PM	20520
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: sls	

Suburban Laboratories, Inc.
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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102
Workorder: **1402924**

Client Sample ID: **B-119 (0-3)**
Matrix: SOIL
Lab ID: 1402924-019 **Date Received:** 02/20/2014 4:15 PM **Collection Date:** 02/19/2014 3:15 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: sls	
ICP Specific Percent Moisture	14.48			wt%	1	02/21/2014 4:25 PM	R44124
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	9.41			pH Units	1	02/21/2014 11:50 AM	R44109
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	15	1.0		wt%	1	02/24/2014 2:01 PM	R44176

Client Sample ID: **B-119 (4-8)**
Matrix: SOIL
Lab ID: 1402924-020 **Date Received:** 02/20/2014 4:15 PM **Collection Date:** 02/19/2014 3:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102
Workorder: **1402924**

Client Sample ID: **B-119 (4-8)**
Matrix: SOIL
Lab ID: 1402924-020
Date Received: 02/20/2014 4:15 PM
Collection Date: 02/19/2014 3:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	2.37	1.11	J	mg/Kg-dry	1	02/26/2014 7:13 PM	20416
Barium	17.0	0.120		mg/Kg-dry	1	02/26/2014 7:13 PM	20416
Cadmium	0.785	0.0721		mg/Kg-dry	1	02/26/2014 7:13 PM	20416
Chromium	6.49	0.0577		mg/Kg-dry	1	02/26/2014 7:13 PM	20416
Lead	26.9	0.577		mg/Kg-dry	1	02/26/2014 7:13 PM	20416
Selenium	<1.25	1.25		mg/Kg-dry	1	02/26/2014 7:13 PM	20416
Silver	<0.0577	0.0577		mg/Kg-dry	1	02/26/2014 7:13 PM	20416
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	<0.0484	0.0484		mg/Kg-dry	1	03/01/2014 9:31 AM	20423
Acenaphthylene	<0.0484	0.0484		mg/Kg-dry	1	03/01/2014 9:31 AM	20423
Anthracene	<0.0484	0.0484		mg/Kg-dry	1	03/01/2014 9:31 AM	20423
Benzo(a)anthracene	<0.0484	0.0484		mg/Kg-dry	1	03/01/2014 9:31 AM	20423
Benzo(a)pyrene	<0.0484	0.0484		mg/Kg-dry	1	03/01/2014 9:31 AM	20423
Benzo(b)fluoranthene	<0.0484	0.0484		mg/Kg-dry	1	03/01/2014 9:31 AM	20423
Benzo(g,h,i)perylene	<0.0484	0.0484		mg/Kg-dry	1	03/01/2014 9:31 AM	20423
Benzo(k)fluoranthene	<0.0484	0.0484		mg/Kg-dry	1	03/01/2014 9:31 AM	20423
Chrysene	<0.0484	0.0484		mg/Kg-dry	1	03/01/2014 9:31 AM	20423
Dibenzo(a,h)anthracene	<0.0484	0.0484		mg/Kg-dry	1	03/01/2014 9:31 AM	20423
Fluoranthene	<0.0484	0.0484		mg/Kg-dry	1	03/01/2014 9:31 AM	20423
Fluorene	<0.0484	0.0484		mg/Kg-dry	1	03/01/2014 9:31 AM	20423
Indeno(1,2,3-cd)pyrene	<0.0484	0.0484		mg/Kg-dry	1	03/01/2014 9:31 AM	20423
Naphthalene	<0.0484	0.0484		mg/Kg-dry	1	03/01/2014 9:31 AM	20423
Phenanthrene	<0.0484	0.0484		mg/Kg-dry	1	03/01/2014 9:31 AM	20423
Pyrene	<0.0484	0.0484		mg/Kg-dry	1	03/01/2014 9:31 AM	20423
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	98.9	72.1-138		%REC	1	03/01/2014 9:31 AM	20423
SS: 4-Terphenyl-d14	117	45.3-152		%REC	1	03/01/2014 9:31 AM	20423
SS: Nitrobenzene-d5	100	62.6-144		%REC	1	03/01/2014 9:31 AM	20423
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: jmk	
Mercury	<0.0225	0.0225		mg/Kg-dry	1	03/05/2014 1:47 PM	20520
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: mjs	

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: **1402924**

Client Sample ID: **B-119 (4-8)**
Lab ID: 1402924-020 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 3:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: mjs	
ICP Specific Percent Moisture	17.63			wt%	1	02/25/2014 3:58 PM	R44237
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	8.50			pH Units	1	02/26/2014 5:40 PM	R44302
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	18	1.0		wt%	1	02/26/2014 3:01 PM	R44280
TRPH BY EPA 8440		Method: SW-8440M-Rev 0				Analyst: maa	
TRPH	<39.8	39.8		mg/Kg-dry	1	02/27/2014 4:36 PM	20437

Client Sample ID: **B-120 (0-3)**
Lab ID: 1402924-021 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 3:45 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102
Workorder: **1402924**

Client Sample ID: **B-120 (0-3)**
Matrix: SOIL
Lab ID: 1402924-021
Date Received: 02/20/2014 4:15 PM
Collection Date: 02/19/2014 3:45 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	1.89	1.13	J	mg/Kg-dry	1	02/24/2014 4:49 PM	20347
Barium	146	0.123		mg/Kg-dry	1	02/24/2014 4:49 PM	20347
Cadmium	0.689	0.0735		mg/Kg-dry	1	02/24/2014 4:49 PM	20347
Chromium	11.9	0.0588		mg/Kg-dry	1	02/24/2014 4:49 PM	20347
Lead	104	0.588		mg/Kg-dry	1	02/24/2014 4:49 PM	20347
Selenium	<1.27	1.27		mg/Kg-dry	1	02/24/2014 4:49 PM	20347
Silver	<0.0588	0.0588		mg/Kg-dry	1	02/24/2014 4:49 PM	20347
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
Total 1,3-Dichloropropene	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
1,1,1-Trichloroethane	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
1,1,2,2-Tetrachloroethane	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
1,1,2-Trichloroethane	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
1,1-Dichloroethane	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
1,1-Dichloroethene	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
1,2-Dichloroethane	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
1,2-Dichloropropane	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
2-Butanone	<0.0109	0.0109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
2-Hexanone	<0.0272	0.0272		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
4-Methyl-2-pentanone	<0.0272	0.0272		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
Acetone	0.0458	0.0272		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
Benzene	<0.000272	0.000272		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
Bromodichloromethane	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
Bromoform	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
Bromomethane	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
Carbon disulfide	0.00617	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
Carbon tetrachloride	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
Chlorobenzene	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
Chloroethane	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
Chloroform	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
Chloromethane	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
cis-1,2-Dichloroethene	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
cis-1,3-Dichloropropene	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
Dibromochloromethane	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
Ethylbenzene	0.00125	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402924

Client Sample ID: B-120 (0-3)
Lab ID: 1402924-021
Date Received: 02/20/2014 4:15 PM
Matrix: SOIL
Collection Date: 02/19/2014 3:45 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
m,p-Xylene	0.00529	0.00218		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
Methyl tert-butyl ether	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
Methylene chloride	<0.00545	0.00545		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
o-Xylene	0.00266	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
Total Xylenes	0.00795	0.00218		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
Styrene	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
Tetrachloroethene	<0.00218	0.00218		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
Toluene	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
trans-1,2-Dichloroethene	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
trans-1,3-Dichloropropene	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
Trichloroethene	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
Vinyl chloride	<0.00109	0.00109		mg/Kg-dry	0.88	02/25/2014 5:24 PM	R44211
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	82.1	61.55-121		%REC	0.88	02/25/2014 5:24 PM	R44211
SS: Dibromofluoromethane	104	71.4-147		%REC	0.88	02/25/2014 5:24 PM	R44211
SS: Toluene-d8	88.3	61-135		%REC	0.88	02/25/2014 5:24 PM	R44211
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	0.793	0.491		mg/Kg-dry	10	03/01/2014 3:55 PM	20423
Acenaphthylene	<0.491	0.491		mg/Kg-dry	10	03/01/2014 3:55 PM	20423
Anthracene	2.95	0.491		mg/Kg-dry	10	03/01/2014 3:55 PM	20423
Benzo(a)anthracene	5.97	0.491		mg/Kg-dry	10	03/01/2014 3:55 PM	20423
Benzo(a)pyrene	5.17	0.491		mg/Kg-dry	10	03/01/2014 3:55 PM	20423
Benzo(b)fluoranthene	6.48	0.491		mg/Kg-dry	10	03/01/2014 3:55 PM	20423
Benzo(g,h,i)perylene	2.88	0.491		mg/Kg-dry	10	03/01/2014 3:55 PM	20423
Benzo(k)fluoranthene	1.94	0.491		mg/Kg-dry	10	03/01/2014 3:55 PM	20423
Chrysene	5.75	0.491		mg/Kg-dry	10	03/01/2014 3:55 PM	20423
Dibenzo(a,h)anthracene	0.644	0.491		mg/Kg-dry	10	03/01/2014 3:55 PM	20423
Fluoranthene	16.0	0.491		mg/Kg-dry	10	03/01/2014 3:55 PM	20423
Fluorene	1.58	0.491		mg/Kg-dry	10	03/01/2014 3:55 PM	20423
Indeno(1,2,3-cd)pyrene	2.59	0.491		mg/Kg-dry	10	03/01/2014 3:55 PM	20423
Naphthalene	<0.491	0.491		mg/Kg-dry	10	03/01/2014 3:55 PM	20423
Phenanthrene	10.6	0.491		mg/Kg-dry	10	03/01/2014 3:55 PM	20423
Pyrene	11.7	0.491		mg/Kg-dry	10	03/01/2014 3:55 PM	20423
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	81.9	72.1-138		%REC	10	03/01/2014 3:55 PM	20423

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: **1402924**

Client Sample ID: **B-120 (0-3)**
Lab ID: 1402924-021 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 3:45 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
SS: 4-Terphenyl-d14	88.8	45.3-152		%REC	10	03/01/2014 3:55 PM	20423
SS: Nitrobenzene-d5	79.8	62.6-144		%REC	10	03/01/2014 3:55 PM	20423
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: jmk	
Mercury	0.0988	0.0248	J	mg/Kg-dry	1	03/05/2014 1:47 PM	20520
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: sls	
ICP Specific Percent Moisture	19.89			wt%	1	02/21/2014 4:25 PM	R44124
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	8.20			pH Units	1	02/21/2014 11:32 AM	R44109
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	19	1.0		wt%	1	02/24/2014 2:01 PM	R44176

Client Sample ID: **B-121 (0-3)**
Lab ID: 1402924-022 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 4:15 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102
Workorder: **1402924**

Client Sample ID: **B-121 (0-3)**
Matrix: SOIL
Lab ID: 1402924-022
Date Received: 02/20/2014 4:15 PM
Collection Date: 02/19/2014 4:15 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	4.85	1.10		mg/Kg-dry	1	02/24/2014 4:56 PM	20347
Barium	78.7	0.119		mg/Kg-dry	1	02/24/2014 4:56 PM	20347
Cadmium	0.581	0.0714		mg/Kg-dry	1	02/24/2014 4:56 PM	20347
Chromium	9.54	0.0571		mg/Kg-dry	1	02/24/2014 4:56 PM	20347
Lead	144	0.571		mg/Kg-dry	1	02/24/2014 4:56 PM	20347
Selenium	<1.24	1.24		mg/Kg-dry	1	02/24/2014 4:56 PM	20347
Silver	<0.0571	0.0571		mg/Kg-dry	1	02/24/2014 4:56 PM	20347
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	0.0564	0.0525		mg/Kg-dry	1	03/03/2014 7:34 PM	20423
Acenaphthylene	<0.0525	0.0525		mg/Kg-dry	1	03/03/2014 7:34 PM	20423
Anthracene	0.222	0.0525		mg/Kg-dry	1	03/03/2014 7:34 PM	20423
Benzo(a)anthracene	1.20	0.0525		mg/Kg-dry	1	03/03/2014 7:34 PM	20423
Benzo(a)pyrene	1.21	0.0525		mg/Kg-dry	1	03/03/2014 7:34 PM	20423
Benzo(b)fluoranthene	1.44	0.0525		mg/Kg-dry	1	03/03/2014 7:34 PM	20423
Benzo(g,h,i)perylene	0.540	0.0525		mg/Kg-dry	1	03/03/2014 7:34 PM	20423
Benzo(k)fluoranthene	0.446	0.0525		mg/Kg-dry	1	03/03/2014 7:34 PM	20423
Chrysene	1.10	0.0525		mg/Kg-dry	1	03/03/2014 7:34 PM	20423
Dibenzo(a,h)anthracene	0.132	0.0525		mg/Kg-dry	1	03/03/2014 7:34 PM	20423
Fluoranthene	2.20	0.0525		mg/Kg-dry	1	03/03/2014 7:34 PM	20423
Fluorene	0.0528	0.0525		mg/Kg-dry	1	03/03/2014 7:34 PM	20423
Indeno(1,2,3-cd)pyrene	0.523	0.0525		mg/Kg-dry	1	03/03/2014 7:34 PM	20423
Naphthalene	0.0531	0.0525		mg/Kg-dry	1	03/03/2014 7:34 PM	20423
Phenanthrene	0.830	0.0525		mg/Kg-dry	1	03/03/2014 7:34 PM	20423
Pyrene	1.87	0.0525		mg/Kg-dry	1	03/03/2014 7:34 PM	20423
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	103	72.1-138		%REC	1	03/03/2014 7:34 PM	20423
SS: 4-Terphenyl-d14	109	45.3-152		%REC	1	03/03/2014 7:34 PM	20423
SS: Nitrobenzene-d5	106	62.6-144		%REC	1	03/03/2014 7:34 PM	20423
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: jmk	
Mercury	0.425	0.0248		mg/Kg-dry	1	03/05/2014 1:47 PM	20520
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: sls	

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: **1402924**

Client Sample ID: **B-121 (0-3)**
Lab ID: 1402924-022 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 4:15 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: sls	
ICP Specific Percent Moisture	19.46			wt%	1	02/21/2014 4:25 PM	R44124
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	8.45			pH Units	1	02/21/2014 11:41 AM	R44109
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	24	1.0		wt%	1	02/24/2014 2:01 PM	R44176

Client Sample ID: **B-122 (0-3)**
Lab ID: 1402924-023 **Date Received:** 02/20/2014 4:15 PM

Matrix: SOIL
Collection Date: 02/19/2014 4:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402924

Client Sample ID: B-122 (0-3)
Lab ID: 1402924-023
Date Received: 02/20/2014 4:15 PM
Matrix: SOIL
Collection Date: 02/19/2014 4:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	8.47	1.13		mg/Kg-dry	1	02/24/2014 5:03 PM	20347
Barium	347	0.123		mg/Kg-dry	1	02/24/2014 5:03 PM	20347
Cadmium	0.676	0.0735		mg/Kg-dry	1	02/24/2014 5:03 PM	20347
Chromium	10.3	0.0588		mg/Kg-dry	1	02/24/2014 5:03 PM	20347
Lead	1,100	0.588		mg/Kg-dry	1	02/24/2014 5:03 PM	20347
Selenium	<1.27	1.27		mg/Kg-dry	1	02/24/2014 5:03 PM	20347
Silver	0.175	0.0588	J	mg/Kg-dry	1	02/24/2014 5:03 PM	20347
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	0.721	0.0470		mg/Kg-dry	1	03/03/2014 6:23 PM	20423
Acenaphthylene	0.125	0.0470		mg/Kg-dry	1	03/03/2014 6:23 PM	20423
Anthracene	1.78	0.0470		mg/Kg-dry	1	03/03/2014 6:23 PM	20423
Benzo(a)anthracene	4.16	0.470		mg/Kg-dry	10	03/03/2014 4:03 PM	20423
Benzo(a)pyrene	4.51	0.0470		mg/Kg-dry	1	03/03/2014 6:23 PM	20423
Benzo(b)fluoranthene	4.68	0.0470		mg/Kg-dry	1	03/03/2014 6:23 PM	20423
Benzo(g,h,i)perylene	2.12	0.0470		mg/Kg-dry	1	03/03/2014 6:23 PM	20423
Benzo(k)fluoranthene	1.46	0.0470		mg/Kg-dry	1	03/03/2014 6:23 PM	20423
Chrysene	5.19	0.470		mg/Kg-dry	10	03/03/2014 4:03 PM	20423
Dibenzo(a,h)anthracene	0.586	0.0470		mg/Kg-dry	1	03/03/2014 6:23 PM	20423
Fluoranthene	10.0	0.470		mg/Kg-dry	10	03/03/2014 4:03 PM	20423
Fluorene	0.770	0.0470		mg/Kg-dry	1	03/03/2014 6:23 PM	20423
Indeno(1,2,3-cd)pyrene	2.01	0.0470		mg/Kg-dry	1	03/03/2014 6:23 PM	20423
Naphthalene	0.623	0.0470		mg/Kg-dry	1	03/03/2014 6:23 PM	20423
Phenanthrene	8.18	0.470		mg/Kg-dry	10	03/03/2014 4:03 PM	20423
Pyrene	10.3	0.470		mg/Kg-dry	10	03/03/2014 4:03 PM	20423
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	101	72.1-138		%REC	1	03/03/2014 6:23 PM	20423
SS: 4-Terphenyl-d14	111	45.3-152		%REC	1	03/03/2014 6:23 PM	20423
SS: Nitrobenzene-d5	106	62.6-144		%REC	1	03/03/2014 6:23 PM	20423
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: sls	
Mercury	3.34	0.0452		mg/Kg-dry	2	02/25/2014 3:30 PM	20381
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: sls	

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102
Workorder: **1402924**

Client Sample ID: **B-122 (0-3)**
Matrix: SOIL
Lab ID: 1402924-023
Date Received: 02/20/2014 4:15 PM
Collection Date: 02/19/2014 4:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: sls	
ICP Specific Percent Moisture	16.27			wt%	1	02/21/2014 4:25 PM	R44124
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	7.96			pH Units	1	02/21/2014 11:10 AM	R44109
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	16	1.0		wt%	1	02/24/2014 2:01 PM	R44176

Client Sample ID: **B-118 (0-3)**
Matrix: SOIL
Lab ID: 1402924-024
Date Received: 02/26/2014 2:15 PM
Collection Date: 02/26/2014 9:03 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: **1402924**

Client Sample ID: **B-118 (0-3)**
Lab ID: 1402924-024
Date Received: 02/26/2014 2:15 PM

Matrix: SOIL
Collection Date: 02/26/2014 9:03 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	<0.0479	0.0479		mg/Kg-dry	1	03/03/2014 2:19 PM	20464
Acenaphthylene	<0.0479	0.0479		mg/Kg-dry	1	03/03/2014 2:19 PM	20464
Anthracene	<0.0479	0.0479		mg/Kg-dry	1	03/03/2014 2:19 PM	20464
Benzo(a)anthracene	<0.0479	0.0479		mg/Kg-dry	1	03/03/2014 2:19 PM	20464
Benzo(a)pyrene	<0.0479	0.0479		mg/Kg-dry	1	03/03/2014 2:19 PM	20464
Benzo(b)fluoranthene	<0.0479	0.0479		mg/Kg-dry	1	03/03/2014 2:19 PM	20464
Benzo(g,h,i)perylene	<0.0479	0.0479		mg/Kg-dry	1	03/03/2014 2:19 PM	20464
Benzo(k)fluoranthene	<0.0479	0.0479		mg/Kg-dry	1	03/03/2014 2:19 PM	20464
Chrysene	<0.0479	0.0479		mg/Kg-dry	1	03/03/2014 2:19 PM	20464
Dibenzo(a,h)anthracene	<0.0479	0.0479		mg/Kg-dry	1	03/03/2014 2:19 PM	20464
Fluoranthene	<0.0479	0.0479		mg/Kg-dry	1	03/03/2014 2:19 PM	20464
Fluorene	<0.0479	0.0479		mg/Kg-dry	1	03/03/2014 2:19 PM	20464
Indeno(1,2,3-cd)pyrene	<0.0479	0.0479		mg/Kg-dry	1	03/03/2014 2:19 PM	20464
Naphthalene	<0.0479	0.0479		mg/Kg-dry	1	03/03/2014 2:19 PM	20464
Phenanthrene	<0.0479	0.0479		mg/Kg-dry	1	03/03/2014 2:19 PM	20464
Pyrene	<0.0479	0.0479		mg/Kg-dry	1	03/03/2014 2:19 PM	20464
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	106	72.1-138		%REC	1	03/03/2014 2:19 PM	20464
SS: 4-Terphenyl-d14	129	45.3-152		%REC	1	03/03/2014 2:19 PM	20464
SS: Nitrobenzene-d5	101	62.6-144		%REC	1	03/03/2014 2:19 PM	20464
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	17	1.0		wt%	1	02/27/2014 3:03 PM	R44347

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PREP DATES REPORT

Client: Pioneer Environmental Services LLC
Project: NWC W. 63rd St. and S. Halsted -

Report Date: April 01, 2014
Lab Order: 1402924

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1402924-001A	2/19/2014 10:00:00 A	20415	5035PR	CLOSED SYSTEM P&T VOC Prep		2/26/2014
1402924-001C		20520	HG_SPR	Mercury Prep for Solids		3/5/2014
		20383	3550_B	SOLID PREP SONICATION: BNA		2/25/2014
		20384	3550_PCB	SOLID PREP SONICATION: PCB		2/25/2014
		20385	3550_P	SOLID PREP SONICATION: Pest		2/25/2014
		20416	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		2/26/2014
1402924-002A	2/19/2014 10:30:00 A	20520	HG_SPR	Mercury Prep for Solids		3/5/2014
		20423	3550SIM_B	SOLID PREP SONICATION: BNA		2/26/2014
		20416	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		2/26/2014
1402924-005A	2/19/2014 11:00:00 A	20520	HG_SPR	Mercury Prep for Solids		3/5/2014
		20423	3550SIM_B	SOLID PREP SONICATION: BNA		2/26/2014
		20416	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		2/26/2014
1402924-007A	2/19/2014 11:30:00 A	20415	5035PR	CLOSED SYSTEM P&T VOC Prep		2/26/2014
1402924-007C		20520	HG_SPR	Mercury Prep for Solids		3/5/2014
		20383	3550_B	SOLID PREP SONICATION: BNA		2/25/2014
		20384	3550_PCB	SOLID PREP SONICATION: PCB		2/25/2014
		20385	3550_P	SOLID PREP SONICATION: Pest		2/25/2014
		20416	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		2/26/2014
1402924-008A	2/19/2014 12:00:00 P	20520	HG_SPR	Mercury Prep for Solids		3/5/2014
		20423	3550SIM_B	SOLID PREP SONICATION: BNA		2/26/2014
		20416	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		2/26/2014
1402924-009A	2/19/2014 12:30:00 P	20520	HG_SPR	Mercury Prep for Solids		3/5/2014
		20423	3550SIM_B	SOLID PREP SONICATION: BNA		2/26/2014
		20416	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		2/26/2014
1402924-010A	2/19/2014 1:00:00 P	20520	HG_SPR	Mercury Prep for Solids		3/5/2014
		20423	3550SIM_B	SOLID PREP SONICATION: BNA		2/26/2014
		20416	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		2/26/2014
1402924-011A	2/19/2014 1:30:00 P	20520	HG_SPR	Mercury Prep for Solids		3/5/2014
		20423	3550SIM_B	SOLID PREP SONICATION: BNA		2/26/2014
		20416	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		2/26/2014
1402924-014A	2/19/2014 2:00:00 P	20415	5035PR	CLOSED SYSTEM P&T VOC Prep		2/26/2014
1402924-014C		20520	HG_SPR	Mercury Prep for Solids		3/5/2014

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PREP DATES REPORT

Client: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project: NWC W. 63rd St. and S. Halsted -
Lab Order: 1402924

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1402924-014C	2/19/2014 2:00:00 P	20423	3550SIM_B	SOLID PREP SONICATION: BNA		2/26/2014
		20437	3550_TRPH_PE	SOLID PREP SONICATION: TRPH		2/27/2014
		20416	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		2/26/2014
1402924-015A	2/19/2014 2:30:00 P	20520	HG_SPR	Mercury Prep for Solids		3/5/2014
		20423	3550SIM_B	SOLID PREP SONICATION: BNA		2/26/2014
		20416	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		2/26/2014
1402924-016A		20415	5035PR	CLOSED SYSTEM P&T VOC Prep		2/26/2014
1402924-016C		20381	HG_SPR	Mercury Prep for Solids		2/25/2014
		20520	HG_SPR	Mercury Prep for Solids		3/5/2014
		20383	3550_B	SOLID PREP SONICATION: BNA		2/25/2014
		20384	3550_PCB	SOLID PREP SONICATION: PCB		2/25/2014
		20385	3550_P	SOLID PREP SONICATION: Pest		2/25/2014
		20437	3550_TRPH_PE	SOLID PREP SONICATION: TRPH		2/27/2014
		20347	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		2/24/2014
1402924-017A	2/19/2014 3:00:00 P	20381	HG_SPR	Mercury Prep for Solids		2/25/2014
		20520	HG_SPR	Mercury Prep for Solids		3/5/2014
		20423	3550SIM_B	SOLID PREP SONICATION: BNA		2/26/2014
		20347	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		2/24/2014
1402924-018A		20381	HG_SPR	Mercury Prep for Solids		2/25/2014
		20520	HG_SPR	Mercury Prep for Solids		3/5/2014
		20347	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		2/24/2014
1402924-019A	2/19/2014 3:15:00 P	20520	HG_SPR	Mercury Prep for Solids		3/5/2014
		20381	HG_SPR	Mercury Prep for Solids		2/25/2014
		20423	3550SIM_B	SOLID PREP SONICATION: BNA		2/26/2014
		20347	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		2/24/2014
1402924-020A	2/19/2014 3:30:00 P	20520	HG_SPR	Mercury Prep for Solids		3/5/2014
		20423	3550SIM_B	SOLID PREP SONICATION: BNA		2/26/2014
		20437	3550_TRPH_PE	SOLID PREP SONICATION: TRPH		2/27/2014
		20416	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		2/26/2014
1402924-021A	2/19/2014 3:45:00 P	20328	5035PR	CLOSED SYSTEM P&T VOC Prep		2/21/2014
1402924-021C		20520	HG_SPR	Mercury Prep for Solids		3/5/2014
		20381	HG_SPR	Mercury Prep for Solids		2/25/2014
		20423	3550SIM_B	SOLID PREP SONICATION: BNA		2/26/2014

Suburban Laboratories, Inc.
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PREP DATES REPORT

Client: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project: NWC W. 63rd St. and S. Halsted -
Lab Order: **1402924**

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1402924-021C	2/19/2014 3:45:00 P	20347	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		2/24/2014
1402924-022A	2/19/2014 4:15:00 P	20520	HG_SPR	Mercury Prep for Solids		3/5/2014
		20381	HG_SPR	Mercury Prep for Solids		2/25/2014
		20423	3550SIM_B	SOLID PREP SONICATION: BNA		2/26/2014
		20347	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		2/24/2014
1402924-023A	2/19/2014 4:30:00 P	20381	HG_SPR	Mercury Prep for Solids		2/25/2014
		20423	3550SIM_B	SOLID PREP SONICATION: BNA		2/26/2014
		20347	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		2/24/2014
1402924-024A	2/26/2014 9:03:00 A	20464	3550SIM_B	SOLID PREP SONICATION: BNA		2/28/2014

Qualifiers:

*/x	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
c	Analyte not in SLI scope of accreditation
E	Estimated, detected above quantitation range
G	Refer to case narrative page for specific comments
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limit (QL)
N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit
P	Present
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits

SUBURBAN LABORATORIES, Inc.

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CHAIN OF CUSTODY RECORD # 113906

Company Name: Pioneer Env.
Company Address: 700 N. Sacramento Blvd
City: Chgo State: IL Zip: 60612
Phone: 773-722-9200 Fax: ☐ Fax Report
Email Address: nstruble@pioneerees.com Final Report will be emailed
Project ID / Location: MnC W. 63rd St. + S. Halsted 12-0646102
Project Manager (Report to): N. Struble
Sample Collector(s) Name: N. Struble

TURNAROUND TIME REQUESTED
☒ Normal ☐ RUSH* *Additional Rush Charges Approved.
*Date & Time Needed: _____
Normal TAT is specified on the price quotation or fee schedule. Rush work must be pre-approved and additional charges apply.
Specify Regulatory Program: (Required) ☐ None/Info Only
☐ LUST ☐ SRP ☐ SDWA
☐ 503 Sludge ☐ NPDES ☐ MWRDGC
☐ Disposal ☐ Other* *Please specify in comment section below.

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

Page 1 of 3
PO No.
Shipping Method
Reporting Level (at additional charge) 1 2 3 4

LAB USE ONLY
SL ORDER No. 1402924
Sample containers supplied by customer? ☐ Yes
Temperature of Received Samples 6 °C
Samples received the same day as collection? ☐ Yes

	SAMPLE IDENTIFICATION *Use One Line Per Preservation & Container Type*	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	PNAs	8 RCRA & metals	pH	TCL	TPH	VOCs	R	Condition	Split	LAB #
1	SB-5 (0-3)	2/19/14	10:00	S			4oz	none	X	X	X	X						001A/B/C
2	SB-6 (0-3)	/ /	10:30				4oz		X	X	X							002A
3	SB-8 (0-3)	/ /	10:45				4oz		Hold									
4	SB-8 (8-12)	/ /	10:45				9oz						X					
5	SB-9 (0-3)	/ /	11:00				4oz		X	X	X							
6	SB-10 (0-3)	/ /	11:30				4oz		X	X	X							006A
7	SB-10 (4-8)	/ /	11:30			1x 9oz 3x 40 mL		+ MeOH				X		X				007A/B/C
8	SB-11 (0-3)	/ /	12:00				4oz		X	X	X							008A
9	SB-12 (0-3)	/ /	12:30				4oz		X	X	X							009A
10		/ /																
11		/ /																
12		/ /																

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

19

CONDITION CODES
1. Improper/damaged container/cap
2. Improper preservation
3. Insufficient sample volume
4. Headspace/air bubbles for VOCs
5. Received past holding time
6. Received frozen
7. Label conflicts with COC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
N Struble	2/19/14	NTS	2/20/14				
Received By ☐ Ice present	Time	Received By ☐ Ice present	Time	Received By ☐ Ice present	Time	Received By ☐ Ice present	Time
NTS	13:13	K Gilhane	16:15				

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SUBURBAN LABORATORIES, Inc.

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CHAIN OF CUSTODY RECORD # 113905

Page 2 of 3

Company Name: Pioneer Environmental
Company Address: 700 N. Sacramento Blvd
City: Chgo State: IL Zip: 60612
Phone: 773-722-9200 Fax: ☐ Fax Report
Email Address: nstruble@pioneerees.com Final Report will be emailed
Project ID / Location: NWC W 63rd St + S. Halsted 12-0646-102
Project Manager (Report to): N. Struble
Sample Collector(s) Name: N. Struble

TURNAROUND TIME REQUESTED

☒ Normal ☐ RUSH* *Additional Rush Charges Approved.

*Date & Time Needed: _____

Normal TAT is specified on the price quotation or fee schedule. Rush work must be pre-approved and additional charges apply.

Specify Regulatory Program: (Required) ☐ None/Info Only
☐ LUST ☐ SRP ☐ SDWA
☐ 503 Sludge ☐ NPDES ☐ MWRDGC
☐ Disposal ☐ Other* *Please specify in comment section below.

ANALYSIS & METHOD REQUESTED

Enter an "X" in box below for request

PO No.:
Shipping Method:
Reporting Level (at additional charge) 1 2 3 4

LAB USE ONLY

SLI ORDER No. 1402924
Sample containers supplied by customer? ☐ Yes
Temperature of Received Samples: 6 °C
Samples received the same day as collection? ☐ Yes

	SAMPLE IDENTIFICATION *Use One Line Per Preservation & Container Type*	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	P/VAs	RCRA 8 metals	pH	VOCs	TCL PAHs	TCL	TPH	R	Condition	Split	LAB #
1	SB-13 (0-3)	2/19/14	1:00	S			4oz	none	X	X	X								01A
2	SB-14 (0-3)	"	1:30	"			4oz	"	X	X	X								
3	SB-14 (8-12)	"	1:30	"			2x4oz	"	hold										
4	SB-15 (0-3)	"	2:00	"			4oz	"	X	X	X								03A
5	SB-15 (4-8)	"	2:00	"		1x 3x	9oz 40mL	2 meoH				X		X					04A/B/C
6	SB-16 (0-3)	"	2:30	"			4oz	none	X	X	X								05A
7	SB-16 (4-8)	"	2:30	"		2x 3x	4oz 40mL	4 meoH				X	X	X					06A/B/C
8	SB-17 (0-3)	"	3:00	"			4oz	none	X	X	X								07A
9																			
10																			
11																			
12																			

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) **CONTAINER:** 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) **PRESERVATIVE:** H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

CONDITION CODES
1. Improper/damaged container/cap
2. Improper preservation
3. Insufficient sample volume
4. Headspace/air bubbles for VOCs
5. Received past holding time
6. Received frozen
7. Label conflicts with COC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
N. Struble	2/19/14	NTS	2/20/14				
Received By	**Time**	**Received By**	**Time**	**Received By**	**Time**	**Received By**	**Time**
NTS ☐ Ice present	13:13	K Gilliane ☐ Ice present	16:15	☐ Ice present		☐ Ice present	

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CHAIN OF CUSTODY RECORD # 113907

Page 3 of 3

Company Name: Pioneer Env.
Company Address: 200 N. Sacramento Blvd
City: Chgo State: IL Zip: 60612
Phone: 773-722-9200 Fax: ☐ Fax Report
Email Address: nstruble@pioneereces.com ☐ Final Report will be emailed
Project ID / Location: NWC W 63rd St + S. Halsted 12-0646-102
Project Manager (Report to): N. Struble
Sample Collector(s) Name: N. Struble

TURNAROUND TIME REQUESTED

☒ Normal ☐ RUSH* *Additional Rush Charges Approved.

*Date & Time Needed: _____

Normal TAT is specified on the price quotation or fee schedule. Rush work must be pre-approved and additional charges apply.

Specify Regulatory Program: (Required) ☐ None/Info Only

☐ LUST ☐ SRP ☐ SDWA
☐ 503 Sludge ☐ NPDES ☐ MWRDGC
☐ Disposal ☐ Other* *Please specify in comment section below.

ANALYSIS & METHOD REQUESTED

Enter an "X" in box below for request

Shipping Method:
Reporting Level (at additional charge) 1 2 3 4

LAB USE ONLY

SLI ORDER No. 1402924
Sample containers supplied by customer? ☐ Yes
Temperature of Received Samples: 6 °C
Samples received the same day as collection? ☐ Yes

	SAMPLE IDENTIFICATION *Use One Line Per Preservation & Container Type*	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	PNAs	RCRA 8 metals	pH	VOC	TPH	TCL	R-	Condition	Split	LAB #
1	SB-18 (0-3)	2/19/14	3:00	S			4oz	none	X	X	X							D18A
2	SB-19 (0-3)	"	3:15	"			9oz	"	X	X	X							D19A
3	SB-19 (4-8)	"	3:30	"			9oz	"					X					D20A
4	SB-20 (0-3)	"	3:45	"		1x 3x	9oz 40mL	+ MeOH	X	X	X	X						D21A/B/C
5	SB-21 (0-3)	"	4:15	"			4oz	"	X	X	X							D22A
6	SB-22 (0-3)	"	4:30	"			4oz	"	X	X	X							D23A
7		/ /																
8		/ /																
9		/ /																
10		/ /																
11		/ /																
12		/ /																

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) **CONTAINER:** 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) **PRESERVATIVE:** H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

CONDITION CODES
1. Improper/damaged container/cap
2. Improper preservation
3. Insufficient sample volume
4. Headspace/air bubbles for VOCs
5. Received past holding time
6. Received frozen
7. Label conflicts with COC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
N Struble	2/19/14	MTS	2/20/14				
Received By ☐ Ice present	Time	Received By ☐ Ice present	Time	Received By ☐ Ice present	Time	Received By ☐ Ice present	Time
MTS	13:13	K Cullane	16:15				

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CHAIN OF CUSTODY RECORD

119128

Company Name: PIONEER
Company Address: 1750 N SACRAMENTO
City: CHGO State: IL Zip: 60612
Phone: 773 722 9201 Fax: ☐ Fax Report
Email Address: NSTRUBE@PIONEERENGG.COM Final Report will be emailed
Project ID / Location: GUNS & HALSTED
Project Manager (Report to): NATALIE
Sample Collector(s) Name: VKR

TURNAROUND TIME REQUESTED

☒ Normal ☐ RUSH* *Additional Rush Charges Approved.

*Date & Time Needed:

Normal TAT is specified on the price quotation or fee schedule. Rush work must be pre-approved and additional charges apply.

Specify Regulatory Program: (Required) ☐ None/Info Only

☐ LUST ☐ SRP ☐ CCDD

☐ 503 Sludge ☐ NPDES ☐ LUST REIMBURSEMENT

☐ Disposal ☐ Other* *Please specify in comment section below.

ANALYSIS & METHOD REQUESTED

Enter an "X" in box below for request

REACTIVITY (SW846 CH 7) SUPPLEMENTAL

Page of
PO No.
Shipping Method
Reporting Level (at additional charge) 1 2 3 4

LAB USE ONLY

SLI ORDER No: 140224
Sample containers supplied by customer? ☐ Yes
Temperature of Received Samples: 4 °C
Samples received the same day as collection? ☐ Yes

	SAMPLE IDENTIFICATION *Use One Line Per Preservation & Container Type*	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	R	Condition	Split	LAB #
1	SB-16 (4-8)	2/26/14	840	SO		1	402 (G)	NONE	X			
2	SB-18 (0-3)	↓	903	↓		1	↓	↓		X		24A
3		/ /										
4		/ /										
5		/ /										
6		/ /										
7		/ /										
8		/ /										
9		/ /										
10		/ /										
11		/ /										
12		/ /										

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) **CONTAINER:** 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) **PRESERVATIVE:** H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

CONDITION CODES
1. Improper/damaged container/cap
2. Improper preservation
3. Insufficient sample volume
4. Headspace/air bubbles for VOCs
5. Received past holding time
6. Received frozen
7. Label conflicts with COC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
	2/26/14						
Received By	**Time**	**Received By**	**Time**	**Received By**	**Time**	**Received By**	**Time**
☒ Ice present	1400	☐ Ice present		☐ Ice present		☐ Ice present	

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SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

April 01, 2014

Workorder: 1402938

Natalie Struble
Pioneer Environmental Services LLC
700 N. Sacramento Blvd., Suite 101
Chicago, IL 60612

TEL: (773) 722-9200
FAX: (773) 722-9201
RE: NWC W. 63rd. St. and S. Halsted - 12-0646-102

Dear Natalie Struble:

Suburban Laboratories, Inc. received 6 sample(s) on 2/20/2014 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation on, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Kelly Culhane

Kelly Culhane
Project Manager
708-544-3260 ext 212
kelly@suburbanlabs.com

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Case Narrative

Client: Pioneer Environmental Services LLC
Date: April 01, 2014
Project: NWC W. 63rd. St. and S. Halsted - 12-0646-102
PO #: 12-0646-102
WorkOrder: 1402938
QC Level:
Temperature of samples upon receipt at SLI: 6 C
Chain of Custody #: 113908

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- In Laboratory: EPA recommends this analyte be analyzed "immediately" (e.g., tests that should be performed in the field within 15 minutes of collection). Analytes with "immediate" hold times are analyzed as soon as possible upon receipt by the laboratory.
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

Workorder Specific Comments:

Cyanide
Sample 1402938-002C: S=The MS percent recovery (184.00%) and the MSD percent recovery (-98.00%) were outside laboratory control limits (80.0% - 120.0%).

Pesticides/PCBs:

Client:	Pioneer Environmental Services LLC	**Date:**	April 01, 2014
Project:	NWC W. 63rd. St. and S. Halsted - 12-0646-102	**PO #:**	12-0646-102
WorkOrder:	**1402938**	**QC Level:**	
Temperature of samples upon receipt at SLI:	**6 C**	**Chain of Custody #:**	113908

Samples 1402938-002C, 0033C and 005C were analyzed at dilution due to sample matrix which masked pesticides and Aroclors, resulting in elevated reporting limits.

This report supersedes the report dated 03/06/2014

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402938

Client Sample ID: B-101 (0-3)
Lab ID: 1402938-001
Date Received: 02/20/2014 2:12 PM
Matrix: SOIL
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	5.39	1.15		mg/Kg-dry	1	02/24/2014 5:09 PM	20347
Barium	27.3	0.125		mg/Kg-dry	1	02/24/2014 5:09 PM	20347
Cadmium	0.256	0.0750		mg/Kg-dry	1	02/24/2014 5:09 PM	20347
Chromium	6.10	0.0600		mg/Kg-dry	1	02/24/2014 5:09 PM	20347
Lead	30.2	0.600		mg/Kg-dry	1	02/24/2014 5:09 PM	20347
Selenium	<1.30	1.30		mg/Kg-dry	1	02/24/2014 5:09 PM	20347
Silver	<0.0600	0.0600		mg/Kg-dry	1	02/24/2014 5:09 PM	20347
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	0.0476	0.0431		mg/Kg-dry	1	02/27/2014 9:37 AM	20427
Acenaphthylene	<0.0431	0.0431		mg/Kg-dry	1	02/27/2014 9:37 AM	20427
Anthracene	0.180	0.0431		mg/Kg-dry	1	02/27/2014 9:37 AM	20427
Benzo(a)anthracene	0.592	0.0431		mg/Kg-dry	1	02/27/2014 9:37 AM	20427
Benzo(a)pyrene	0.542	0.0431		mg/Kg-dry	1	02/27/2014 9:37 AM	20427
Benzo(b)fluoranthene	0.718	0.0431		mg/Kg-dry	1	02/27/2014 9:37 AM	20427
Benzo(g,h,i)perylene	0.310	0.0431		mg/Kg-dry	1	02/27/2014 9:37 AM	20427
Benzo(k)fluoranthene	0.224	0.0431		mg/Kg-dry	1	02/27/2014 9:37 AM	20427
Chrysene	0.607	0.0431		mg/Kg-dry	1	02/27/2014 9:37 AM	20427
Dibenzo(a,h)anthracene	0.0765	0.0431		mg/Kg-dry	1	02/27/2014 9:37 AM	20427
Fluoranthene	1.37	0.0431		mg/Kg-dry	1	02/27/2014 9:37 AM	20427
Fluorene	0.0543	0.0431		mg/Kg-dry	1	02/27/2014 9:37 AM	20427
Indeno(1,2,3-cd)pyrene	0.281	0.0431		mg/Kg-dry	1	02/27/2014 9:37 AM	20427
Naphthalene	0.106	0.0431		mg/Kg-dry	1	02/28/2014 7:30 AM	20427
Phenanthrene	0.853	0.0431		mg/Kg-dry	1	02/27/2014 9:37 AM	20427
Pyrene	1.07	0.0431		mg/Kg-dry	1	02/27/2014 9:37 AM	20427
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	98.9	72.1-138		%REC	1	02/27/2014 9:37 AM	20427
SS: 4-Terphenyl-d14	104	45.3-152		%REC	1	02/27/2014 9:37 AM	20427
SS: Nitrobenzene-d5	91.9	62.6-144		%REC	1	02/27/2014 9:37 AM	20427
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: sls	
Mercury	0.410	0.0220		mg/Kg-dry	1	02/25/2014 3:30 PM	20381
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: sls	

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: **1402938**

Client Sample ID: **B-101 (0-3)**
Lab ID: 1402938-001 **Date Received:** 02/20/2014 2:12 PM

Matrix: SOIL
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: sls	
ICP Specific Percent Moisture	7.888			wt%	1	02/21/2014 4:25 PM	R44124
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	9.47			pH Units	1	02/21/2014 11:28 AM	R44109
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	9.0	1.0		wt%	1	02/24/2014 2:01 PM	R44176

Client Sample ID: **B-102 (0-3)**
Lab ID: 1402938-002 **Date Received:** 02/20/2014 2:12 PM

Matrix: SOIL
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402938

Client Sample ID: B-102 (0-3)
Lab ID: 1402938-002
Date Received: 02/20/2014 2:12 PM

Matrix: SOIL
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Aluminum	27,200	24.3		mg/Kg-dry	10	02/25/2014 6:04 PM	20347
Antimony	22.6	1.46		mg/Kg-dry	1	02/24/2014 3:07 PM	20347
Arsenic	<1.12	1.12		mg/Kg-dry	1	02/24/2014 3:07 PM	20347
Barium	162	0.121		mg/Kg-dry	1	02/24/2014 3:07 PM	20347
Beryllium	1.92	0.0359		mg/Kg-dry	1	02/24/2014 3:07 PM	20347
Cadmium	2.92	0.0728		mg/Kg-dry	1	02/24/2014 3:07 PM	20347
Calcium	63,900	6.07		mg/Kg-dry	10	02/25/2014 6:04 PM	20347
Chromium	45.7	0.0583		mg/Kg-dry	1	02/24/2014 3:07 PM	20347
Cobalt	5.65	0.121		mg/Kg-dry	1	02/24/2014 3:07 PM	20347
Copper	18.0	0.146		mg/Kg-dry	1	02/24/2014 3:07 PM	20347
Iron	47,300	0.607		mg/Kg-dry	1	02/24/2014 3:07 PM	20347
Lead	46.2	0.583		mg/Kg-dry	1	02/24/2014 3:07 PM	20347
Magnesium	9,980	0.607		mg/Kg-dry	1	02/24/2014 3:07 PM	20347
Manganese	389	0.0583		mg/Kg-dry	1	02/24/2014 3:07 PM	20347
Nickel	21.3	0.228		mg/Kg-dry	1	02/24/2014 3:07 PM	20347
Potassium	4,220	2.43		mg/Kg-dry	1	02/24/2014 3:07 PM	20347
Selenium	1.92	1.26	J	mg/Kg-dry	1	02/24/2014 3:07 PM	20347
Silver	<0.0583	0.0583		mg/Kg-dry	1	02/24/2014 3:07 PM	20347
Sodium	1,810	1.21		mg/Kg-dry	1	02/26/2014 2:59 PM	20347
Thallium	<0.432	0.432		mg/Kg-dry	1	02/24/2014 3:07 PM	20347
Vanadium	42.2	0.146		mg/Kg-dry	1	02/24/2014 3:07 PM	20347
Zinc	216	0.0728		mg/Kg-dry	1	02/24/2014 3:07 PM	20347
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96				Analyst: mn	
4,4´-DDD	<0.00190	0.00190		mg/Kg-dry	1	02/28/2014 3:59 PM	20385
4,4´-DDE	<0.00190	0.00190		mg/Kg-dry	1	02/28/2014 3:59 PM	20385
4,4´-DDT	<0.00190	0.00190		mg/Kg-dry	1	02/28/2014 3:59 PM	20385
Aldrin	<0.000949	0.000949		mg/Kg-dry	1	02/28/2014 3:59 PM	20385
alpha-BHC	<0.000949	0.000949		mg/Kg-dry	1	02/28/2014 3:59 PM	20385
alpha-Chlordane	<0.000949	0.000949		mg/Kg-dry	1	02/28/2014 3:59 PM	20385
beta-BHC	<0.000949	0.000949		mg/Kg-dry	1	02/28/2014 3:59 PM	20385
Chlordane	<0.0189	0.0189		mg/Kg-dry	1	02/28/2014 3:59 PM	20385
delta-BHC	<0.000949	0.000949		mg/Kg-dry	1	02/28/2014 3:59 PM	20385
Dieldrin	<0.00190	0.00190		mg/Kg-dry	1	02/28/2014 3:59 PM	20385
Endosulfan I	<0.000949	0.000949		mg/Kg-dry	1	02/28/2014 3:59 PM	20385

Suburban Laboratories, Inc.
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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102
Workorder: 1402938

Client Sample ID: B-102 (0-3)
Matrix: SOIL
Lab ID: 1402938-002
Date Received: 02/20/2014 2:12 PM
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96				Analyst: mn	
Endosulfan II	<0.00190	0.00190		mg/Kg-dry	1	02/28/2014 3:59 PM	20385
Endosulfan sulfate	<0.00190	0.00190		mg/Kg-dry	1	02/28/2014 3:59 PM	20385
Endrin	<0.00190	0.00190		mg/Kg-dry	1	02/28/2014 3:59 PM	20385
Endrin aldehyde	<0.00190	0.00190		mg/Kg-dry	1	02/28/2014 3:59 PM	20385
Endrin ketone	<0.00190	0.00190		mg/Kg-dry	1	02/28/2014 3:59 PM	20385
gamma-BHC	<0.000949	0.000949		mg/Kg-dry	1	02/28/2014 3:59 PM	20385
gamma-Chlordane	<0.000949	0.000949		mg/Kg-dry	1	02/28/2014 3:59 PM	20385
Heptachlor	<0.00949	0.00949		mg/Kg-dry	10	02/28/2014 6:36 PM	20385
Heptachlor epoxide	<0.000949	0.000949		mg/Kg-dry	1	02/28/2014 3:59 PM	20385
Methoxychlor	<0.0949	0.0949		mg/Kg-dry	10	02/28/2014 6:36 PM	20385
Toxaphene	<0.0380	0.0380		mg/Kg-dry	1	02/28/2014 3:59 PM	20385
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	66.5	33.7-156		%REC	1	02/28/2014 3:59 PM	20385
PCBS		Method: EPA-8082-Rev 0, Dec-96				Analyst: mn	
Aroclor 1016	<0.190	0.190		mg/Kg-dry	10	03/05/2014 4:59 PM	20384
Aroclor 1221	<0.190	0.190		mg/Kg-dry	10	03/05/2014 4:59 PM	20384
Aroclor 1232	<0.190	0.190		mg/Kg-dry	10	03/05/2014 4:59 PM	20384
Aroclor 1242	<0.190	0.190		mg/Kg-dry	10	03/05/2014 4:59 PM	20384
Aroclor 1248	<0.190	0.190		mg/Kg-dry	10	03/05/2014 4:59 PM	20384
Aroclor 1254	<0.190	0.190		mg/Kg-dry	10	03/05/2014 4:59 PM	20384
Aroclor 1260	<0.190	0.190		mg/Kg-dry	10	03/05/2014 4:59 PM	20384
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	37.5	33.7-156		%REC	10	03/05/2014 4:59 PM	20384
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
Total 1,3-Dichloropropene	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
1,1,1-Trichloroethane	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
1,1,2,2-Tetrachloroethane	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
1,1,2-Trichloroethane	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
1,1-Dichloroethane	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
1,1-Dichloroethene	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
1,2-Dichloroethane	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
1,2-Dichloropropane	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
2-Butanone	<0.00856	0.00856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
2-Hexanone	<0.0214	0.0214		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102
Workorder: 1402938

Client Sample ID: B-102 (0-3)
Matrix: SOIL
Lab ID: 1402938-002
Date Received: 02/20/2014 2:12 PM
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
4-Methyl-2-pentanone	<0.0214	0.0214		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
Acetone	<0.0214	0.0214		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
Benzene	0.00118	0.000214		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
Bromodichloromethane	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
Bromoform	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
Bromomethane	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
Carbon disulfide	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
Carbon tetrachloride	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
Chlorobenzene	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
Chloroethane	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
Chloroform	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
Chloromethane	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
cis-1,2-Dichloroethene	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
cis-1,3-Dichloropropene	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
Dibromochloromethane	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
Ethylbenzene	0.00262	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
m,p-Xylene	0.0124	0.00171		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
Methyl tert-butyl ether	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
Methylene chloride	<0.00428	0.00428		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
o-Xylene	0.00481	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
Total Xylenes	0.0173	0.00171		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
Styrene	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
Tetrachloroethene	0.00363	0.00171		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
Toluene	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
trans-1,2-Dichloroethene	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
trans-1,3-Dichloropropene	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
Trichloroethene	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
Vinyl chloride	<0.000856	0.000856		mg/Kg-dry	0.75	02/25/2014 1:05 PM	R44211
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	86.3	61.55-121		%REC	0.75	02/25/2014 1:05 PM	R44211
SS: Dibromofluoromethane	103	71.4-147		%REC	0.75	02/25/2014 1:05 PM	R44211
SS: Toluene-d8	96.3	61-135		%REC	0.75	02/25/2014 1:05 PM	R44211
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,2,4-Trichlorobenzene	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
1,2-Dichlorobenzene	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102
Workorder: **1402938**

Client Sample ID: **B-102 (0-3)**
Matrix: SOIL
Lab ID: 1402938-002
Date Received: 02/20/2014 2:12 PM
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,3-Dichlorobenzene	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
1,4-Dichlorobenzene	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
2,4,5-Trichlorophenol	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
2,4,6-Trichlorophenol	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
2,4-Dichlorophenol	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
2,4-Dimethylphenol	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
2,4-Dinitrophenol	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
2,4-Dinitrotoluene	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
2,6-Dinitrotoluene	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
2-Chloronaphthalene	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
2-Chlorophenol	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
2-Methylnaphthalene	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
2-Nitroaniline	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
2-Nitrophenol	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
3,3-Dichlorobenzidine	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
3-Nitroaniline	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
4,6-Dinitro-2-methylphenol	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
4-Bromophenyl phenyl ether	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
4-Chloro-3-methylphenol	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
4-Chloroaniline	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
4-Chlorophenyl phenyl ether	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
4-Nitroaniline	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
4-Nitrophenol	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Acenaphthene	0.726	0.0567		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Acenaphthylene	0.705	0.0567		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Anthracene	2.44	0.0567		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Benzo(a)anthracene	4.68	0.283		mg/Kg-dry	5	02/28/2014 12:31 AM	20383
Benzo(a)pyrene	3.27	0.0567		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Benzo(b)fluoranthene	4.60	0.283		mg/Kg-dry	5	02/28/2014 12:31 AM	20383
Benzo(g,h,i)perylene	0.749	0.0567		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Benzo(k)fluoranthene	2.13	0.0567		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Bis(2-chloroethoxy)methane	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Bis(2-chloroethyl)ether	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Bis(2-chloroisopropyl)ether	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Bis(2-ethylhexyl)phthalate	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Butyl benzyl phthalate	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Carbazole	0.365	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: **1402938**

Client Sample ID: **B-102 (0-3)**
Lab ID: 1402938-002 **Date Received:** 02/20/2014 2:12 PM

Matrix: SOIL
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Chrysene	3.98	0.283		mg/Kg-dry	5	02/28/2014 12:31 AM	20383
Dibenzo(a,h)anthracene	0.397	0.0567		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Dibenzofuran	1.36	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Diethyl phthalate	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Dimethyl phthalate	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Di-n-butyl phthalate	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Di-n-octyl phthalate	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Fluoranthene	8.55	0.283		mg/Kg-dry	5	02/28/2014 12:31 AM	20383
Fluorene	0.955	0.0567		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Hexachlorobenzene	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Hexachlorobutadiene	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Hexachlorocyclopentadiene	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Hexachloroethane	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Indeno(1,2,3-cd)pyrene	0.796	0.0567		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Isophorone	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
m,p-Cresol	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Naphthalene	0.224	0.0567		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Nitrobenzene	<0.0567	0.0567		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
N-Nitroso-di-n-propylamine	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
N-Nitrosodiphenylamine	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
o-Cresol	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Pentachlorophenol	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Phenanthrene	4.92	0.283		mg/Kg-dry	5	02/28/2014 12:31 AM	20383
Phenol	<0.283	0.283		mg/Kg-dry	1	02/28/2014 2:23 AM	20383
Pyrene	6.48	0.283		mg/Kg-dry	5	02/28/2014 12:31 AM	20383
Internal Quality Control Compounds							
SS: 2,4,6-Tribromophenol	91.7	0.1-136		%REC	1	02/28/2014 2:23 AM	20383
SS: 2-Fluorobiphenyl	77.9	16.3-118		%REC	1	02/28/2014 2:23 AM	20383
SS: 2-Fluorophenol	63.2	4.2-97		%REC	1	02/28/2014 2:23 AM	20383
SS: 4-Terphenyl-d14	83.6	0.1-147		%REC	1	02/28/2014 2:23 AM	20383
SS: Nitrobenzene-d5	48.8	0.1-119		%REC	1	02/28/2014 2:23 AM	20383
SS: Phenol-d5	67.6	9.82-111		%REC	1	02/28/2014 2:23 AM	20383
CYANIDE, TOTAL		Method: EPA-9014-Rev 0, Dec-96				Analyst: LAP	
Cyanide	0.26	0.11		mg/Kg-dry	10	02/25/2014 2:18 PM	R44227
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: sls	

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402938

Client Sample ID: B-102 (0-3)
Lab ID: 1402938-002 **Date Received:** 02/20/2014 2:12 PM

Matrix: SOIL
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: sls	
Mercury	1.46	0.0211		mg/Kg-dry	1	02/25/2014 3:30 PM	20381
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: sls	
ICP Specific Percent Moisture	11.40			wt%	1	02/21/2014 4:25 PM	R44124
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	8.67			pH Units	1	02/21/2014 12:22 PM	R44109
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	12	1.0		wt%	1	02/24/2014 2:01 PM	R44176

Client Sample ID: B-103 (0-3)
Lab ID: 1402938-003 **Date Received:** 02/20/2014 2:12 PM

Matrix: SOIL
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402938

Client Sample ID: B-103 (0-3)
Lab ID: 1402938-003
Date Received: 02/20/2014 2:12 PM

Matrix: SOIL
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Aluminum	20,600	2.43		mg/Kg-dry	1	02/24/2014 3:16 PM	20347
Antimony	20.6	1.46		mg/Kg-dry	1	02/24/2014 3:16 PM	20347
Arsenic	<1.12	1.12		mg/Kg-dry	1	02/24/2014 3:16 PM	20347
Barium	128	0.121		mg/Kg-dry	1	02/24/2014 3:16 PM	20347
Beryllium	1.58	0.0359		mg/Kg-dry	1	02/24/2014 3:16 PM	20347
Cadmium	2.97	0.0728		mg/Kg-dry	1	02/24/2014 3:16 PM	20347
Calcium	73,600	6.07		mg/Kg-dry	10	02/25/2014 6:09 PM	20347
Chromium	35.7	0.0583		mg/Kg-dry	1	02/24/2014 3:16 PM	20347
Cobalt	4.48	0.121		mg/Kg-dry	1	02/24/2014 3:16 PM	20347
Copper	13.8	0.146		mg/Kg-dry	1	02/24/2014 3:16 PM	20347
Iron	37,300	0.607		mg/Kg-dry	1	02/24/2014 3:16 PM	20347
Lead	29.2	0.583		mg/Kg-dry	1	02/24/2014 3:16 PM	20347
Magnesium	13,700	0.607		mg/Kg-dry	1	02/24/2014 3:16 PM	20347
Manganese	383	0.0583		mg/Kg-dry	1	02/24/2014 3:16 PM	20347
Nickel	17.0	0.228		mg/Kg-dry	1	02/24/2014 3:16 PM	20347
Potassium	3,130	2.43		mg/Kg-dry	1	02/24/2014 3:16 PM	20347
Selenium	1.33	1.26	J	mg/Kg-dry	1	02/24/2014 3:16 PM	20347
Silver	<0.0583	0.0583		mg/Kg-dry	1	02/24/2014 3:16 PM	20347
Sodium	1,350	1.21		mg/Kg-dry	1	02/26/2014 3:03 PM	20347
Thallium	<0.432	0.432		mg/Kg-dry	1	02/24/2014 3:16 PM	20347
Vanadium	32.6	0.146		mg/Kg-dry	1	02/24/2014 3:16 PM	20347
Zinc	198	0.0728		mg/Kg-dry	1	02/24/2014 3:16 PM	20347
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96				Analyst: mn	
4,4´-DDD	<0.0100	0.0100		mg/Kg-dry	5	02/28/2014 4:18 PM	20385
4,4´-DDE	<0.0100	0.0100		mg/Kg-dry	5	02/28/2014 4:18 PM	20385
4,4´-DDT	<0.0100	0.0100		mg/Kg-dry	5	02/28/2014 4:18 PM	20385
Aldrin	<0.00500	0.00500		mg/Kg-dry	5	02/28/2014 4:18 PM	20385
alpha-BHC	<0.00500	0.00500		mg/Kg-dry	5	02/28/2014 4:18 PM	20385
alpha-Chlordane	<0.00500	0.00500		mg/Kg-dry	5	02/28/2014 4:18 PM	20385
beta-BHC	<0.00500	0.00500		mg/Kg-dry	5	02/28/2014 4:18 PM	20385
Chlordane	<0.0996	0.0996		mg/Kg-dry	5	02/28/2014 4:18 PM	20385
delta-BHC	<0.0100	0.0100		mg/Kg-dry	10	02/28/2014 6:55 PM	20385
Dieldrin	<0.0100	0.0100		mg/Kg-dry	5	02/28/2014 4:18 PM	20385
Endosulfan I	<0.00500	0.00500		mg/Kg-dry	5	02/28/2014 4:18 PM	20385

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102
Workorder: **1402938**

Client Sample ID: **B-103 (0-3)**
Matrix: SOIL
Lab ID: 1402938-003
Date Received: 02/20/2014 2:12 PM
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96				Analyst: mn	
Endosulfan II	<0.0100	0.0100		mg/Kg-dry	5	02/28/2014 4:18 PM	20385
Endosulfan sulfate	<0.0100	0.0100		mg/Kg-dry	5	02/28/2014 4:18 PM	20385
Endrin	<0.0100	0.0100		mg/Kg-dry	5	02/28/2014 4:18 PM	20385
Endrin aldehyde	<0.0100	0.0100		mg/Kg-dry	5	02/28/2014 4:18 PM	20385
Endrin ketone	<0.0100	0.0100		mg/Kg-dry	5	02/28/2014 4:18 PM	20385
gamma-BHC	<0.0100	0.0100		mg/Kg-dry	10	02/28/2014 6:55 PM	20385
gamma-Chlordane	<0.00500	0.00500		mg/Kg-dry	5	02/28/2014 4:18 PM	20385
Heptachlor	<0.0100	0.0100		mg/Kg-dry	10	02/28/2014 6:55 PM	20385
Heptachlor epoxide	<0.00500	0.00500		mg/Kg-dry	5	02/28/2014 4:18 PM	20385
Methoxychlor	<0.0500	0.0500		mg/Kg-dry	5	02/28/2014 4:18 PM	20385
Toxaphene	<0.200	0.200		mg/Kg-dry	5	02/28/2014 4:18 PM	20385
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	24.5	33.7-156	S	%REC	5	02/28/2014 4:18 PM	20385
PCBS		Method: EPA-8082-Rev 0, Dec-96				Analyst: mn	
Aroclor 1016	<0.200	0.200		mg/Kg-dry	10	03/05/2014 5:37 PM	20384
Aroclor 1221	<0.200	0.200		mg/Kg-dry	10	03/05/2014 5:37 PM	20384
Aroclor 1232	<0.200	0.200		mg/Kg-dry	10	03/05/2014 5:37 PM	20384
Aroclor 1242	<0.200	0.200		mg/Kg-dry	10	03/05/2014 5:37 PM	20384
Aroclor 1248	<0.200	0.200		mg/Kg-dry	10	03/05/2014 5:37 PM	20384
Aroclor 1254	<0.200	0.200		mg/Kg-dry	10	03/05/2014 5:37 PM	20384
Aroclor 1260	<0.200	0.200		mg/Kg-dry	10	03/05/2014 5:37 PM	20384
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	25.0	33.7-156	S	%REC	10	03/05/2014 5:37 PM	20384
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
Total 1,3-Dichloropropene	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
1,1,1-Trichloroethane	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
1,1,2,2-Tetrachloroethane	0.00240	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
1,1,2-Trichloroethane	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
1,1-Dichloroethane	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
1,1-Dichloroethene	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
1,2-Dichloroethane	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
1,2-Dichloropropane	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
2-Butanone	<0.0100	0.0100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
2-Hexanone	<0.0251	0.0251		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102
Workorder: **1402938**

Client Sample ID: **B-103 (0-3)**
Matrix: SOIL
Lab ID: 1402938-003
Date Received: 02/20/2014 2:12 PM
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
4-Methyl-2-pentanone	<0.0251	0.0251		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
Acetone	<0.0251	0.0251		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
Benzene	<0.000251	0.000251		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
Bromodichloromethane	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
Bromoform	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
Bromomethane	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
Carbon disulfide	0.00200	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
Carbon tetrachloride	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
Chlorobenzene	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
Chloroethane	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
Chloroform	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
Chloromethane	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
cis-1,2-Dichloroethene	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
cis-1,3-Dichloropropene	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
Dibromochloromethane	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
Ethylbenzene	0.00178	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
m,p-Xylene	0.00757	0.00201		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
Methyl tert-butyl ether	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
Methylene chloride	<0.00502	0.00502		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
o-Xylene	0.00323	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
Total Xylenes	0.0108	0.00201		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
Styrene	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
Tetrachloroethene	<0.00201	0.00201		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
Toluene	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
trans-1,2-Dichloroethene	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
trans-1,3-Dichloropropene	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
Trichloroethene	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
Vinyl chloride	<0.00100	0.00100		mg/Kg-dry	0.83	02/25/2014 1:42 PM	R44211
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	87.6	61.55-121		%REC	0.83	02/25/2014 1:42 PM	R44211
SS: Dibromofluoromethane	107	71.4-147		%REC	0.83	02/25/2014 1:42 PM	R44211
SS: Toluene-d8	90.9	61-135		%REC	0.83	02/25/2014 1:42 PM	R44211
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,2,4-Trichlorobenzene	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
1,2-Dichlorobenzene	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102
Workorder: **1402938**

Client Sample ID: **B-103 (0-3)**
Matrix: SOIL
Lab ID: 1402938-003
Date Received: 02/20/2014 2:12 PM
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,3-Dichlorobenzene	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
1,4-Dichlorobenzene	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
2,4,5-Trichlorophenol	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
2,4,6-Trichlorophenol	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
2,4-Dichlorophenol	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
2,4-Dimethylphenol	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
2,4-Dinitrophenol	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
2,4-Dinitrotoluene	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
2,6-Dinitrotoluene	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
2-Chloronaphthalene	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
2-Chlorophenol	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
2-Methylnaphthalene	0.488	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
2-Nitroaniline	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
2-Nitrophenol	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
3,3-Dichlorobenzidine	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
3-Nitroaniline	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
4,6-Dinitro-2-methylphenol	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
4-Bromophenyl phenyl ether	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
4-Chloro-3-methylphenol	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
4-Chloroaniline	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
4-Chlorophenyl phenyl ether	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
4-Nitroaniline	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
4-Nitrophenol	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Acenaphthene	0.647	0.0604		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Acenaphthylene	0.0634	0.0604		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Anthracene	1.52	0.0604		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Benzo(a)anthracene	2.28	0.0604		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Benzo(a)pyrene	1.81	0.0604		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Benzo(b)fluoranthene	2.67	0.0604		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Benzo(g,h,i)perylene	0.486	0.0604		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Benzo(k)fluoranthene	0.694	0.0604		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Bis(2-chloroethoxy)methane	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Bis(2-chloroethyl)ether	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Bis(2-chloroisopropyl)ether	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Bis(2-ethylhexyl)phthalate	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Butyl benzyl phthalate	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Carbazole	0.540	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402938

Client Sample ID: B-103 (0-3)
Lab ID: 1402938-003
Date Received: 02/20/2014 2:12 PM
Matrix: SOIL
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Chrysene	2.17	0.0604		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Dibenzo(a,h)anthracene	0.242	0.0604		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Dibenzofuran	0.708	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Diethyl phthalate	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Dimethyl phthalate	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Di-n-butyl phthalate	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Di-n-octyl phthalate	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Fluoranthene	5.00	0.302		mg/Kg-dry	5	02/27/2014 11:16 PM	20383
Fluorene	1.15	0.0604		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Hexachlorobenzene	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Hexachlorobutadiene	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Hexachlorocyclopentadiene	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Hexachloroethane	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Indeno(1,2,3-cd)pyrene	0.500	0.0604		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Isophorone	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
m,p-Cresol	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Naphthalene	0.912	0.0604		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Nitrobenzene	<0.0604	0.0604		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
N-Nitroso-di-n-propylamine	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
N-Nitrosodiphenylamine	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
o-Cresol	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Pentachlorophenol	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Phenanthrene	5.73	0.302		mg/Kg-dry	5	02/27/2014 11:16 PM	20383
Phenol	<0.302	0.302		mg/Kg-dry	1	02/28/2014 1:08 AM	20383
Pyrene	4.45	0.302		mg/Kg-dry	5	02/27/2014 11:16 PM	20383
Internal Quality Control Compounds							
SS: 2,4,6-Tribromophenol	64.4	0.1-136		%REC	1	02/28/2014 1:08 AM	20383
SS: 2-Fluorobiphenyl	60.5	16.3-118		%REC	1	02/28/2014 1:08 AM	20383
SS: 2-Fluorophenol	61.4	4.2-97		%REC	1	02/28/2014 1:08 AM	20383
SS: 4-Terphenyl-d14	60.4	0.1-147		%REC	1	02/28/2014 1:08 AM	20383
SS: Nitrobenzene-d5	47.8	0.1-119		%REC	1	02/28/2014 1:08 AM	20383
SS: Phenol-d5	61.8	9.82-111		%REC	1	02/28/2014 1:08 AM	20383
CYANIDE, TOTAL		Method: EPA-9014-Rev 0, Dec-96				Analyst: LAP	
Cyanide	<0.12	0.12		mg/Kg-dry	10	02/25/2014 2:20 PM	R44227
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: sls	

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402938

Client Sample ID: B-103 (0-3)
Lab ID: 1402938-003
Date Received: 02/20/2014 2:12 PM
Matrix: SOIL
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: sls	
Mercury	1.41	0.0223		mg/Kg-dry	1	02/25/2014 3:30 PM	20381
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: sls	
ICP Specific Percent Moisture	13.29			wt%	1	02/21/2014 4:25 PM	R44124
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	9.66			pH Units	1	02/21/2014 11:18 AM	R44109
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	17	1.0		wt%	1	02/24/2014 2:01 PM	R44176

Client Sample ID: B-104 (0-3)
Lab ID: 1402938-004
Date Received: 02/20/2014 2:12 PM
Matrix: SOIL
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102
Workorder: **1402938**

Client Sample ID: **B-104 (0-3)**
Matrix: SOIL
Lab ID: 1402938-004
Date Received: 02/20/2014 2:12 PM
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	3.89	1.13	J	mg/Kg-dry	1	02/24/2014 5:16 PM	20347
Barium	59.9	0.123		mg/Kg-dry	1	02/24/2014 5:16 PM	20347
Cadmium	0.700	0.0735		mg/Kg-dry	1	02/24/2014 5:16 PM	20347
Chromium	8.52	0.0588		mg/Kg-dry	1	02/24/2014 5:16 PM	20347
Lead	122	0.588		mg/Kg-dry	1	02/24/2014 5:16 PM	20347
Selenium	<1.27	1.27		mg/Kg-dry	1	02/24/2014 5:16 PM	20347
Silver	<0.0588	0.0588		mg/Kg-dry	1	02/24/2014 5:16 PM	20347
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	0.353	0.0471		mg/Kg-dry	1	02/27/2014 9:02 AM	20427
Acenaphthylene	0.0618	0.0471		mg/Kg-dry	1	02/27/2014 9:02 AM	20427
Anthracene	0.289	0.0471		mg/Kg-dry	1	02/27/2014 9:02 AM	20427
Benzo(a)anthracene	1.12	0.0471		mg/Kg-dry	1	02/27/2014 9:02 AM	20427
Benzo(a)pyrene	1.07	0.0471		mg/Kg-dry	1	02/27/2014 9:02 AM	20427
Benzo(b)fluoranthene	1.29	0.0471		mg/Kg-dry	1	02/27/2014 9:02 AM	20427
Benzo(g,h,i)perylene	0.579	0.0471		mg/Kg-dry	1	02/27/2014 9:02 AM	20427
Benzo(k)fluoranthene	0.410	0.0471		mg/Kg-dry	1	02/27/2014 9:02 AM	20427
Chrysene	1.03	0.0471		mg/Kg-dry	1	02/27/2014 9:02 AM	20427
Dibenzo(a,h)anthracene	0.139	0.0471		mg/Kg-dry	1	02/27/2014 9:02 AM	20427
Fluoranthene	2.23	0.0471		mg/Kg-dry	1	02/27/2014 9:02 AM	20427
Fluorene	0.120	0.0471		mg/Kg-dry	1	02/27/2014 9:02 AM	20427
Indeno(1,2,3-cd)pyrene	0.493	0.0471		mg/Kg-dry	1	02/27/2014 9:02 AM	20427
Naphthalene	0.265	0.0471		mg/Kg-dry	1	02/28/2014 8:05 AM	20427
Phenanthrene	0.939	0.0471		mg/Kg-dry	1	02/27/2014 9:02 AM	20427
Pyrene	1.89	0.0471		mg/Kg-dry	1	02/27/2014 9:02 AM	20427
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	97.2	72.1-138		%REC	1	02/27/2014 9:02 AM	20427
SS: 4-Terphenyl-d14	107	45.3-152		%REC	1	02/27/2014 9:02 AM	20427
SS: Nitrobenzene-d5	88.3	62.6-144		%REC	1	02/27/2014 9:02 AM	20427
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: sls	
Mercury	0.685	0.0231		mg/Kg-dry	1	02/25/2014 3:30 PM	20381
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: sls	

Suburban Laboratories, Inc.
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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: **1402938**

Client Sample ID: **B-104 (0-3)**
Lab ID: 1402938-004 **Date Received:** 02/20/2014 2:12 PM

Matrix: SOIL
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: sls	
ICP Specific Percent Moisture	14.55			wt%	1	02/21/2014 4:25 PM	R44124
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	8.68			pH Units	1	02/21/2014 11:38 AM	R44109
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	16	1.0		wt%	1	02/24/2014 2:01 PM	R44176

Client Sample ID: **B-107 (0-3)**
Lab ID: 1402938-005 **Date Received:** 02/20/2014 2:12 PM

Matrix: SOIL
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402938

Client Sample ID: B-107 (0-3)
Lab ID: 1402938-005
Date Received: 02/20/2014 2:12 PM

Matrix: SOIL
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Aluminum	9,520	2.48		mg/Kg-dry	1	02/24/2014 3:25 PM	20347
Antimony	13.0	1.49		mg/Kg-dry	1	02/24/2014 3:25 PM	20347
Arsenic	<1.14	1.14		mg/Kg-dry	1	02/24/2014 3:25 PM	20347
Barium	58.9	0.124		mg/Kg-dry	1	02/24/2014 3:25 PM	20347
Beryllium	0.594	0.0366		mg/Kg-dry	1	02/24/2014 3:25 PM	20347
Cadmium	1.68	0.0743		mg/Kg-dry	1	02/24/2014 3:25 PM	20347
Calcium	118,000	6.19		mg/Kg-dry	10	02/25/2014 6:24 PM	20347
Chromium	18.2	0.0594		mg/Kg-dry	1	02/24/2014 3:25 PM	20347
Cobalt	2.85	0.124		mg/Kg-dry	1	02/24/2014 3:25 PM	20347
Copper	8.45	0.149		mg/Kg-dry	1	02/24/2014 3:25 PM	20347
Iron	20,000	0.619		mg/Kg-dry	1	02/24/2014 3:25 PM	20347
Lead	17.9	0.594		mg/Kg-dry	1	02/24/2014 3:25 PM	20347
Magnesium	56,000	6.19		mg/Kg-dry	10	02/25/2014 6:24 PM	20347
Manganese	280	0.0594		mg/Kg-dry	1	02/24/2014 3:25 PM	20347
Nickel	9.39	0.233		mg/Kg-dry	1	02/24/2014 3:25 PM	20347
Potassium	1,720	2.48		mg/Kg-dry	1	02/24/2014 3:25 PM	20347
Selenium	<1.29	1.29		mg/Kg-dry	1	02/24/2014 3:25 PM	20347
Silver	<0.0594	0.0594		mg/Kg-dry	1	02/24/2014 3:25 PM	20347
Sodium	778	1.24		mg/Kg-dry	1	02/26/2014 3:07 PM	20347
Thallium	<0.441	0.441		mg/Kg-dry	1	02/24/2014 3:25 PM	20347
Vanadium	17.3	0.149		mg/Kg-dry	1	02/24/2014 3:25 PM	20347
Zinc	89.7	0.0743		mg/Kg-dry	1	02/24/2014 3:25 PM	20347
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96				Analyst: mn	
4,4´-DDD	<0.00915	0.00915		mg/Kg-dry	5	02/28/2014 4:37 PM	20385
4,4´-DDE	<0.00915	0.00915		mg/Kg-dry	5	02/28/2014 4:37 PM	20385
4,4´-DDT	<0.00915	0.00915		mg/Kg-dry	5	02/28/2014 4:37 PM	20385
Aldrin	<0.00457	0.00457		mg/Kg-dry	5	02/28/2014 4:37 PM	20385
alpha-BHC	<0.00457	0.00457		mg/Kg-dry	5	02/28/2014 4:37 PM	20385
alpha-Chlordane	<0.00457	0.00457		mg/Kg-dry	5	02/28/2014 4:37 PM	20385
beta-BHC	<0.00457	0.00457		mg/Kg-dry	5	02/28/2014 4:37 PM	20385
Chlordane	<0.0910	0.0910		mg/Kg-dry	5	02/28/2014 4:37 PM	20385
delta-BHC	<0.00913	0.00913		mg/Kg-dry	10	02/28/2014 7:14 PM	20385
Dieldrin	<0.0183	0.0183		mg/Kg-dry	10	02/28/2014 7:14 PM	20385
Endosulfan I	<0.00457	0.00457		mg/Kg-dry	5	02/28/2014 4:37 PM	20385

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102
Workorder: 1402938

Client Sample ID: B-107 (0-3)
Matrix: SOIL
Lab ID: 1402938-005
Date Received: 02/20/2014 2:12 PM
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96				Analyst: mn	
Endosulfan II	<0.00915	0.00915		mg/Kg-dry	5	02/28/2014 4:37 PM	20385
Endosulfan sulfate	<0.00915	0.00915		mg/Kg-dry	5	02/28/2014 4:37 PM	20385
Endrin	<0.00915	0.00915		mg/Kg-dry	5	02/28/2014 4:37 PM	20385
Endrin aldehyde	<0.00915	0.00915		mg/Kg-dry	5	02/28/2014 4:37 PM	20385
Endrin ketone	<0.00915	0.00915		mg/Kg-dry	5	02/28/2014 4:37 PM	20385
gamma-BHC	<0.00457	0.00457		mg/Kg-dry	5	02/28/2014 4:37 PM	20385
gamma-Chlordane	<0.00457	0.00457		mg/Kg-dry	5	02/28/2014 4:37 PM	20385
Heptachlor	<0.00913	0.00913		mg/Kg-dry	10	02/28/2014 7:14 PM	20385
Heptachlor epoxide	<0.00457	0.00457		mg/Kg-dry	5	02/28/2014 4:37 PM	20385
Methoxychlor	<0.0913	0.0913		mg/Kg-dry	10	02/28/2014 7:14 PM	20385
Toxaphene	<0.183	0.183		mg/Kg-dry	5	02/28/2014 4:37 PM	20385
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	44.9	33.7-156		%REC	5	02/28/2014 4:37 PM	20385
PCBS		Method: EPA-8082-Rev 0, Dec-96				Analyst: mn	
Aroclor 1016	<0.183	0.183		mg/Kg-dry	10	03/05/2014 5:18 PM	20384
Aroclor 1221	<0.183	0.183		mg/Kg-dry	10	03/05/2014 5:18 PM	20384
Aroclor 1232	<0.183	0.183		mg/Kg-dry	10	03/05/2014 5:18 PM	20384
Aroclor 1242	<0.183	0.183		mg/Kg-dry	10	03/05/2014 5:18 PM	20384
Aroclor 1248	<0.183	0.183		mg/Kg-dry	10	03/05/2014 5:18 PM	20384
Aroclor 1254	<0.183	0.183		mg/Kg-dry	10	03/05/2014 5:18 PM	20384
Aroclor 1260	<0.183	0.183		mg/Kg-dry	10	03/05/2014 5:18 PM	20384
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	50.0	33.7-156		%REC	10	03/05/2014 5:18 PM	20384
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
Total 1,3-Dichloropropene	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
1,1,1-Trichloroethane	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
1,1,2,2-Tetrachloroethane	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
1,1,2-Trichloroethane	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
1,1-Dichloroethane	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
1,1-Dichloroethene	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
1,2-Dichloroethane	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
1,2-Dichloropropane	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
2-Butanone	<0.00939	0.00939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
2-Hexanone	<0.0235	0.0235		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102
Workorder: 1402938

Client Sample ID: B-107 (0-3)
Matrix: SOIL
Lab ID: 1402938-005
Date Received: 02/20/2014 2:12 PM
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
4-Methyl-2-pentanone	<0.0235	0.0235		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
Acetone	<0.0235	0.0235		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
Benzene	<0.000235	0.000235		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
Bromodichloromethane	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
Bromoform	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
Bromomethane	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
Carbon disulfide	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
Carbon tetrachloride	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
Chlorobenzene	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
Chloroethane	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
Chloroform	0.00165	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
Chloromethane	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
cis-1,2-Dichloroethene	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
cis-1,3-Dichloropropene	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
Dibromochloromethane	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
Ethylbenzene	0.00162	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
m,p-Xylene	0.00743	0.00188		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
Methyl tert-butyl ether	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
Methylene chloride	<0.00469	0.00469		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
o-Xylene	0.00292	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
Total Xylenes	0.0103	0.00188		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
Styrene	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
Tetrachloroethene	0.00245	0.00188		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
Toluene	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
trans-1,2-Dichloroethene	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
trans-1,3-Dichloropropene	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
Trichloroethene	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
Vinyl chloride	<0.000939	0.000939		mg/Kg-dry	0.84	02/25/2014 2:19 PM	R44211
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	84.1	61.55-121		%REC	0.84	02/25/2014 2:19 PM	R44211
SS: Dibromofluoromethane	100	71.4-147		%REC	0.84	02/25/2014 2:19 PM	R44211
SS: Toluene-d8	94.8	61-135		%REC	0.84	02/25/2014 2:19 PM	R44211
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,2,4-Trichlorobenzene	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
1,2-Dichlorobenzene	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102
Workorder: **1402938**

Client Sample ID: **B-107 (0-3)**
Matrix: SOIL
Lab ID: 1402938-005
Date Received: 02/20/2014 2:12 PM
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,3-Dichlorobenzene	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
1,4-Dichlorobenzene	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
2,4,5-Trichlorophenol	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
2,4,6-Trichlorophenol	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
2,4-Dichlorophenol	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
2,4-Dimethylphenol	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
2,4-Dinitrophenol	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
2,4-Dinitrotoluene	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
2,6-Dinitrotoluene	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
2-Chloronaphthalene	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
2-Chlorophenol	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
2-Methylnaphthalene	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
2-Nitroaniline	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
2-Nitrophenol	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
3,3-Dichlorobenzidine	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
3-Nitroaniline	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
4,6-Dinitro-2-methylphenol	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
4-Bromophenyl phenyl ether	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
4-Chloro-3-methylphenol	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
4-Chloroaniline	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
4-Chlorophenyl phenyl ether	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
4-Nitroaniline	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
4-Nitrophenol	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Acenaphthene	<0.0554	0.0554		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Acenaphthylene	<0.0554	0.0554		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Anthracene	<0.0554	0.0554		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Benzo(a)anthracene	<0.0554	0.0554		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Benzo(a)pyrene	<0.0554	0.0554		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Benzo(b)fluoranthene	<0.0554	0.0554		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Benzo(g,h,i)perylene	<0.0554	0.0554		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Benzo(k)fluoranthene	<0.0554	0.0554		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Bis(2-chloroethoxy)methane	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Bis(2-chloroethyl)ether	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Bis(2-chloroisopropyl)ether	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Bis(2-ethylhexyl)phthalate	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Butyl benzyl phthalate	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Carbazole	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102
Workorder: **1402938**

Client Sample ID: **B-107 (0-3)**
Matrix: SOIL
Lab ID: 1402938-005
Date Received: 02/20/2014 2:12 PM
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Chrysene	<0.0554	0.0554		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Dibenzo(a,h)anthracene	<0.0554	0.0554		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Dibenzofuran	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Diethyl phthalate	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Dimethyl phthalate	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Di-n-butyl phthalate	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Di-n-octyl phthalate	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Fluoranthene	<0.0554	0.0554		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Fluorene	<0.0554	0.0554		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Hexachlorobenzene	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Hexachlorobutadiene	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Hexachlorocyclopentadiene	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Hexachloroethane	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Indeno(1,2,3-cd)pyrene	<0.0554	0.0554		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Isophorone	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
m,p-Cresol	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Naphthalene	<0.0554	0.0554		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Nitrobenzene	<0.0554	0.0554		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
N-Nitroso-di-n-propylamine	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
N-Nitrosodiphenylamine	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
o-Cresol	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Pentachlorophenol	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Phenanthrene	<0.0554	0.0554		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Phenol	<0.277	0.277		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Pyrene	<0.0554	0.0554		mg/Kg-dry	1	02/28/2014 1:46 AM	20383
Internal Quality Control Compounds							
SS: 2,4,6-Tribromophenol	56.7	0.1-136		%REC	1	02/28/2014 1:46 AM	20383
SS: 2-Fluorobiphenyl	56.4	16.3-118		%REC	1	02/28/2014 1:46 AM	20383
SS: 2-Fluorophenol	57.5	4.2-97		%REC	1	02/28/2014 1:46 AM	20383
SS: 4-Terphenyl-d14	55.7	0.1-147		%REC	1	02/28/2014 1:46 AM	20383
SS: Nitrobenzene-d5	47.6	0.1-119		%REC	1	02/28/2014 1:46 AM	20383
SS: Phenol-d5	53.7	9.82-111		%REC	1	02/28/2014 1:46 AM	20383
CYANIDE, TOTAL		Method: EPA-9014-Rev 0, Dec-96				Analyst: LAP	
Cyanide	<0.11	0.11		mg/Kg-dry	10	02/25/2014 2:21 PM	R44227
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: sls	

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402938

Client Sample ID: B-107 (0-3)
Lab ID: 1402938-005
Date Received: 02/20/2014 2:12 PM
Matrix: SOIL
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: sls	
Mercury	1.06	0.0201		mg/Kg-dry	1	02/25/2014 3:30 PM	20381
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: sls	
ICP Specific Percent Moisture	11.61			wt%	1	02/21/2014 4:25 PM	R44124
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	7.96			pH Units	1	02/21/2014 12:31 PM	R44109
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	11	1.0		wt%	1	02/24/2014 2:01 PM	R44176

Client Sample ID: B-123 (0-3)
Lab ID: 1402938-006
Date Received: 02/20/2014 2:12 PM
Matrix: SOIL
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402938

Client Sample ID: B-123 (0-3)
Lab ID: 1402938-006
Date Received: 02/20/2014 2:12 PM
Matrix: SOIL
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	4.07	1.15	J	mg/Kg-dry	1	02/24/2014 5:23 PM	20347
Barium	22.4	0.125		mg/Kg-dry	1	02/24/2014 5:23 PM	20347
Cadmium	0.208	0.0750	J	mg/Kg-dry	1	02/24/2014 5:23 PM	20347
Chromium	7.65	0.0600		mg/Kg-dry	1	02/24/2014 5:23 PM	20347
Lead	15.6	0.600		mg/Kg-dry	1	02/24/2014 5:23 PM	20347
Selenium	<1.30	1.30		mg/Kg-dry	1	02/24/2014 5:23 PM	20347
Silver	<0.0600	0.0600		mg/Kg-dry	1	02/24/2014 5:23 PM	20347
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
Total 1,3-Dichloropropene	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
1,1,1-Trichloroethane	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
1,1,2,2-Tetrachloroethane	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
1,1,2-Trichloroethane	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
1,1-Dichloroethane	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
1,1-Dichloroethene	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
1,2-Dichloroethane	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
1,2-Dichloropropane	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
2-Butanone	<0.0146	0.0146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
2-Hexanone	<0.0365	0.0365		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
4-Methyl-2-pentanone	<0.0365	0.0365		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
Acetone	<0.0365	0.0365		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
Benzene	<0.000365	0.000365		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
Bromodichloromethane	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
Bromoform	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
Bromomethane	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
Carbon disulfide	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
Carbon tetrachloride	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
Chlorobenzene	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
Chloroethane	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
Chloroform	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
Chloromethane	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
cis-1,2-Dichloroethene	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
cis-1,3-Dichloropropene	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
Dibromochloromethane	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
Ethylbenzene	0.00153	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211

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1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102
Workorder: 1402938

Client Sample ID: B-123 (0-3)
Matrix: SOIL
Lab ID: 1402938-006
Date Received: 02/20/2014 2:12 PM
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
m,p-Xylene	0.00718	0.00292		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
Methyl tert-butyl ether	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
Methylene chloride	<0.00730	0.00730		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
o-Xylene	0.00308	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
Total Xylenes	0.0103	0.00292		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
Styrene	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
Tetrachloroethene	<0.00292	0.00292		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
Toluene	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
trans-1,2-Dichloroethene	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
trans-1,3-Dichloropropene	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
Trichloroethene	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
Vinyl chloride	<0.00146	0.00146		mg/Kg-dry	1.19	02/25/2014 2:56 PM	R44211
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	84.2	61.55-121		%REC	1.19	02/25/2014 2:56 PM	R44211
SS: Dibromofluoromethane	102	71.4-147		%REC	1.19	02/25/2014 2:56 PM	R44211
SS: Toluene-d8	93.4	61-135		%REC	1.19	02/25/2014 2:56 PM	R44211
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	<0.0483	0.0483		mg/Kg-dry	1	02/27/2014 3:32 AM	20427
Acenaphthylene	<0.0483	0.0483		mg/Kg-dry	1	02/27/2014 3:32 AM	20427
Anthracene	<0.0483	0.0483		mg/Kg-dry	1	02/27/2014 3:32 AM	20427
Benzo(a)anthracene	<0.0483	0.0483		mg/Kg-dry	1	02/27/2014 3:32 AM	20427
Benzo(a)pyrene	<0.0483	0.0483		mg/Kg-dry	1	02/27/2014 3:32 AM	20427
Benzo(b)fluoranthene	0.0554	0.0483		mg/Kg-dry	1	02/27/2014 3:32 AM	20427
Benzo(g,h,i)perylene	<0.0483	0.0483		mg/Kg-dry	1	02/27/2014 3:32 AM	20427
Benzo(k)fluoranthene	<0.0483	0.0483		mg/Kg-dry	1	02/27/2014 3:32 AM	20427
Chrysene	<0.0483	0.0483		mg/Kg-dry	1	02/27/2014 3:32 AM	20427
Dibenzo(a,h)anthracene	<0.0483	0.0483		mg/Kg-dry	1	02/27/2014 3:32 AM	20427
Fluoranthene	0.0897	0.0483		mg/Kg-dry	1	02/27/2014 3:32 AM	20427
Fluorene	<0.0483	0.0483		mg/Kg-dry	1	02/27/2014 3:32 AM	20427
Indeno(1,2,3-cd)pyrene	<0.0483	0.0483		mg/Kg-dry	1	02/27/2014 3:32 AM	20427
Naphthalene	<0.0483	0.0483		mg/Kg-dry	1	02/27/2014 3:32 AM	20427
Phenanthrene	<0.0483	0.0483		mg/Kg-dry	1	02/27/2014 3:32 AM	20427
Pyrene	0.0828	0.0483		mg/Kg-dry	1	02/27/2014 3:32 AM	20427
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	109	72.1-138		%REC	1	02/27/2014 3:32 AM	20427

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63rd. St. and S. Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: **1402938**

Client Sample ID: **B-123 (0-3)**
Lab ID: 1402938-006 **Date Received:** 02/20/2014 2:12 PM

Matrix: SOIL
Collection Date: 02/20/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
SS: 4-Terphenyl-d14	130	45.3-152		%REC	1	02/27/2014 3:32 AM	20427
SS: Nitrobenzene-d5	102	62.6-144		%REC	1	02/27/2014 3:32 AM	20427
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: sls	
Mercury	0.130	0.0232		mg/Kg-dry	1	02/25/2014 3:30 PM	20381
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: sls	
ICP Specific Percent Moisture	20.26			wt%	1	02/21/2014 4:25 PM	R44124
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	8.96			pH Units	1	02/21/2014 11:24 AM	R44109
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	18	1.0		wt%	1	02/24/2014 2:01 PM	R44176

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PREP DATES REPORT

Client: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project: NWC W. 63rd. St. and S. Halsted -
Lab Order: 1402938

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1402938-001A	2/20/2014	20381	HG_SPR	Mercury Prep for Solids		2/25/2014
		20427	3550SIM_B	SOLID PREP SONICATION: BNA		2/26/2014
		20347	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		2/24/2014
1402938-002A		20328	5035PR	CLOSED SYSTEM P&T VOC Prep		2/21/2014
1402938-002C		20381	HG_SPR	Mercury Prep for Solids		2/25/2014
		20383	3550_B	SOLID PREP SONICATION: BNA		2/25/2014
		20384	3550_PCB	SOLID PREP SONICATION: PCB		2/25/2014
		20385	3550_P	SOLID PREP SONICATION: Pest		2/25/2014
		20347	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		2/24/2014
1402938-003A		20328	5035PR	CLOSED SYSTEM P&T VOC Prep		2/21/2014
1402938-003C		20381	HG_SPR	Mercury Prep for Solids		2/25/2014
		20383	3550_B	SOLID PREP SONICATION: BNA		2/25/2014
		20384	3550_PCB	SOLID PREP SONICATION: PCB		2/25/2014
		20385	3550_P	SOLID PREP SONICATION: Pest		2/25/2014
		20347	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		2/24/2014
1402938-004A		20381	HG_SPR	Mercury Prep for Solids		2/25/2014
		20427	3550SIM_B	SOLID PREP SONICATION: BNA		2/26/2014
		20347	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		2/24/2014
1402938-005A		20328	5035PR	CLOSED SYSTEM P&T VOC Prep		2/21/2014
1402938-005C		20381	HG_SPR	Mercury Prep for Solids		2/25/2014
		20383	3550_B	SOLID PREP SONICATION: BNA		2/25/2014
		20384	3550_PCB	SOLID PREP SONICATION: PCB		2/25/2014
		20385	3550_P	SOLID PREP SONICATION: Pest		2/25/2014
		20347	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		2/24/2014
1402938-006A		20328	5035PR	CLOSED SYSTEM P&T VOC Prep		2/21/2014
1402938-006C		20381	HG_SPR	Mercury Prep for Solids		2/25/2014
		20427	3550SIM_B	SOLID PREP SONICATION: BNA		2/26/2014
		20347	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		2/24/2014

Qualifiers:

*/x	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
c	Analyte not in SLI scope of accreditation
E	Estimated, detected above quantitation range
G	Refer to case narrative page for specific comments
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limit (QL)
N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit
P	Present
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits

SUBURBAN LABORATORIES, Inc.

4140 Litt Drive Hillside, IL 60162 Tel. 708.544.3260 Fax: 708.544.8587 Toll Free: 800.783.LABS www.suburbanlabs.com

CHAIN OF CUSTODY RECORD # 113908

Company Name: Pioneer Environmental
Company Address: 700 N. Sacramento Blvd
City: Chicago State: IL Zip: 60612
Phone: 773-722-9200 Fax: ☐ Fax Report
Email Address: nstruble@pioneerees.com ☐ Final Report will be emailed
Project ID / Location: NWC W 63rd St. + S Halsted 12-0646-102
Project Manager (Report to): N. Struble
Sample Collector(s) Name: N. Struble

TURNAROUND TIME REQUESTED
☒ Normal ☐ RUSH* *Additional Rush Charges Approved.
*Date & Time Needed:
Normal TAT is specified on the price quotation or fee schedule. Rush work must be pre-approved and additional charges apply.
Specify Regulatory Program: (Required) ☐ None/Info Only
☐ LUST ☐ SRP ☐ SDWA
☐ 503 Sludge ☐ NPDES ☐ MWRDGC
☐ Disposal ☐ Other* *Please specify in comment section below.

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

Page | of |
PO No.
Shipping Method
Reporting Level (at additional charge) 1 2 3 4

LAB USE ONLY
SLI ORDER No. 1402938
Sample containers supplied by customer? ☐ Yes
Temperature of Received Samples 6 °C
Samples received the same day as collection? ☐ Yes

	SAMPLE IDENTIFICATION *Use One Line Per Preservation & Container Type*	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	PNAs	RCRA 8 metals	pH	TCL	TOC	VOC	R	Condition	Split	LAB #
1	SB-1 (0-3)	2/2014		S		1	4oz	none	X	XX								001A
2	SB-2 (0-3)	"		"		1	9oz	+ meOH	X	X	X	X						002A/B/C
						3	40mL											
3	SB-3 (0-3)	"		"			↓	+ meOH	X	X	X	X						003A/B/C
4	SB-4 (0-3)	"		"		1	4oz		X	X	X							004A
5	SB-7 (0-3)	"		"		1	9oz	+ meOH				X						005A/B/C
						3	40mL											
6	SB-23 (0-3)	"		"		↓	↓	+ meOH	X	X	X		X					006A/B/C
7																		
8																		
9																		
10																		
11																		
12																		

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) **CONTAINER:** 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) **PRESERVATIVE:** H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

CONDITION CODES
1. Improper/damaged container/cap
2. Improper preservation
3. Insufficient sample volume
4. Headspace/air bubbles for VOCs
5. Received past holding time
6. Received frozen
7. Label conflicts with COC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
N Struble	2/20/14	MTB	2/20/14				
Received By ☐ Ice present	**Time**	**Received By** ☐ Ice present	**Time**	**Received By** ☐ Ice present	**Time**	**Received By** ☐ Ice present	**Time**
MTB	13:13	K Gillane	16:15				

Submission of samples subject to Terms and Conditions on back. Rev. 07/20/08 White-Original, Pink-Sampler Copy

Rpt Ver: Kelly 4/1/2014 10:29 AM

SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

April 01, 2014

Workorder: 1402960

Natalie Struble
Pioneer Environmental Services LLC
700 N. Sacramento Blvd., Suite 101
Chicago, IL 60612

TEL: (773) 722-9200
FAX: (773) 722-9201
RE: 63rd and Halsted - 12-0646-102

Dear Natalie Struble:

Suburban Laboratories, Inc. received 3 sample(s) on 2/21/2014 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation on, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Kelly Culhane

Kelly Culhane
Project Manager
708-544-3260 ext 212
kelly@suburbanlabs.com

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Case Narrative

Client: Pioneer Environmental Services LLC
Project: 63rd and Halsted - 12-0646-102
WorkOrder: 1402960
Temperature of samples upon receipt at SLI: C

Date: April 01, 2014
PO #: 12-0646-102
QC Level:
Chain of Custody #: 113909

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- In Laboratory: EPA recommends this analyte be analyzed "immediately" (e.g., tests that should be performed in the field within 15 minutes of collection). Analytes with "immediate" hold times are analyzed as soon as possible upon receipt by the laboratory.
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

Workorder Specific Comments:

This report supersedes the report dated 02/28/2014

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: **1402960**

Client Sample ID: **B-108 (4-8)**
Lab ID: 1402960-001 **Date Received:** 02/21/2014 11:00 AM

Matrix: SOIL
Collection Date: 02/19/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
TRPH BY EPA 8440		Method: SW-8440M-Rev 0				Analyst: maa	
TRPH	<32.2	32.2		mg/Kg	1	02/27/2014 4:36 PM	20437

Client Sample ID: **B-114 (4-8)**
Lab ID: 1402960-002 **Date Received:** 02/21/2014 11:00 AM

Matrix: SOIL
Collection Date: 02/19/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
TRPH BY EPA 8440		Method: SW-8440M-Rev 0				Analyst: maa	
TRPH	<32.3	32.3		mg/Kg	1	02/27/2014 4:36 PM	20437

Client Sample ID: **B-122 (0-3)**
Lab ID: 1402960-003 **Date Received:** 02/21/2014 11:00 AM

Matrix: SOIL
Collection Date: 02/19/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: 1402960

Client Sample ID: B-122 (0-3)
Lab ID: 1402960-003
Date Received: 02/21/2014 11:00 AM

Matrix: SOIL
Collection Date: 02/19/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
Total 1,3-Dichloropropene	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
1,1,1-Trichloroethane	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
1,1,2,2-Tetrachloroethane	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
1,1,2-Trichloroethane	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
1,1-Dichloroethane	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
1,1-Dichloroethene	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
1,2-Dichloroethane	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
1,2-Dichloropropane	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
2-Butanone	<0.0100	0.0100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
2-Hexanone	<0.0251	0.0251		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
4-Methyl-2-pentanone	<0.0251	0.0251		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
Acetone	<0.0251	0.0251		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
Benzene	<0.000251	0.000251		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
Bromodichloromethane	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
Bromoform	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
Bromomethane	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
Carbon disulfide	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
Carbon tetrachloride	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
Chlorobenzene	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
Chloroethane	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
Chloroform	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
Chloromethane	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
cis-1,2-Dichloroethene	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
cis-1,3-Dichloropropene	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
Dibromochloromethane	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
Ethylbenzene	0.00132	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
m,p-Xylene	0.00635	0.00201		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
Methyl tert-butyl ether	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
Methylene chloride	<0.00502	0.00502		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
o-Xylene	0.00259	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
Total Xylenes	0.00894	0.00201		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
Styrene	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
Tetrachloroethene	<0.00201	0.00201		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
Toluene	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
trans-1,2-Dichloroethene	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
trans-1,3-Dichloropropene	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted - 12-0646-102

Report Date: April 01, 2014
Workorder: **1402960**

Client Sample ID: **B-122 (0-3)**
Lab ID: 1402960-003
Date Received: 02/21/2014 11:00 AM

Matrix: SOIL
Collection Date: 02/19/2014 12:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
Trichloroethene	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
Vinyl chloride	<0.00100	0.00100		mg/Kg-dry	0.84	02/25/2014 3:33 PM	R44211
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	69.6	61.55-121		%REC	0.84	02/25/2014 3:33 PM	R44211
SS: Dibromofluoromethane	104	71.4-147		%REC	0.84	02/25/2014 3:33 PM	R44211
SS: Toluene-d8	90.5	61-135		%REC	0.84	02/25/2014 3:33 PM	R44211
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	16	1.0		wt%	1	02/24/2014 2:01 PM	R44176

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

PREP DATES REPORT

Client: Pioneer Environmental Services LLC
Report Date: April 01, 2014
Project: 63rd and Halsted - 12-0646-102
Lab Order: **1402960**

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1402960-001A	2/19/2014	20437	3550_TRPH_PE	SOLID PREP SONICATION: TRPH		2/27/2014
1402960-002A		20437	3550_TRPH_PE	SOLID PREP SONICATION: TRPH		2/27/2014
1402960-003A		20368	5035PR	CLOSED SYSTEM P&T VOC Prep		2/24/2014

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Qualifier Definitions

WO#: **1402960**
Date: **4/1/2014**

Qualifiers:

*/x	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
c	Analyte not in SLI scope of accreditation
E	Estimated, detected above quantitation range
G	Refer to case narrative page for specific comments
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limit (QL)
N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit
P	Present
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits

SUBURBAN LABORATORIES, Inc.

4140 Litt Drive Hillside, IL 60162 Tel. 708.544.3260 Fax: 708.544.8587 Toll Free: 800.783.LABS www.suburbanlabs.com

CHAIN OF CUSTODY RECORD # 113909

Company Name: Pioneer Environmental
Company Address: 700 N. Sacramento Blvd
City: Chicago State: Il Zip: 60612
Phone: 773-722-9200 Fax: ☐ Fax Report
Email Address: nstruble@pioneerees.com Final Report will be emailed
Project ID / Location: 63rd + Halsted 12-0646-102
Project Manager (Report to): N. Struble
Sample Collector(s) Name: N. Struble

TURNAROUND TIME REQUESTED
☒ Normal ☐ RUSH* *Additional Rush Charges Approved.
*Date & Time Needed:
Normal TAT is specified on the price quotation or fee schedule. Rush work must be pre-approved and additional charges apply.

Specify Regulatory Program: (Required) ☐ None/Info Only
☐ LUST ☐ SRP ☐ SDWA
☐ 503 Sludge ☐ NPDES ☐ MWRDGC
☐ Disposal ☐ Other* *Please specify in comment section below.

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

Page 1 of 1
PO No.
Shipping Method
Reporting Level (at additional charge) 1 2 3 4

LAB USE ONLY
SL ORDER No. 1402960
Sample containers supplied by customer? ☐ Yes
Temperature of Received Samples 1 °C
Samples received the same day as collection? ☐ Yes

	SAMPLE IDENTIFICATION *Use One Line Per Preservation & Container Type*	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	TPH	VOC	R	Condition	Split	LAB #
1	SB-5 (0-3)	2/19/14		S		3x	40mL	none/meOH	(needed for TCL on COC (113906)		1	402924-001		A1B
2	SB-8 (4-8)	/ /		↓			9oz	none	X					-001A
3	SB-14 (4-8)	/ /		↓			9oz	↓	X					-002A
4	SB-22 (0-3)	/ /		↓		3x	40mL	none/meOH		X				-003A1B1C
5		/ /												
6		/ /												
7		/ /												
8		/ /												
9		/ /												
10		/ /												
11		/ /												
12		/ /												

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) **CONTAINER:** 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) **PRESERVATIVE:** H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

CONDITION CODES
1. Improper/damaged container/cap
2. Improper preservation
3. Insufficient sample volume
4. Headspace/air bubbles for VOCs
5. Received past holding time
6. Received frozen
7. Label conflicts with COC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
N Struble	2/20/14	[signature]	2.21.14				
Received By [signature] ☒ Ice present	Time 2.21.14 / 0815	Received By K Culhane ☐ Ice present	Time	Received By ☐ Ice present	Time	Received By ☐ Ice present	Time

Submission of samples subject to Terms and Conditions on back. Rev. 07/20/08 White-Original, Pink-Sampler Copy

SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

March 07, 2014

Workorder: 1402C18

Natalie Struble
Pioneer Environmental Services LLC
700 N. Sacramento Blvd., Suite 101
Chicago, IL 60612

TEL: (773) 722-9200
FAX: (773) 722-9201
RE: 63rd and Halsted

Dear Natalie Struble:

Suburban Laboratories, Inc. received 1 sample(s) on 2/26/2014 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation on, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Kelly Culhane

Kelly Culhane
Project Manager
708-544-3260 ext 212
kelly@suburbanlabs.com

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Case Narrative

Client: Pioneer Environmental Services LLC
Project: 63rd and Halsted
WorkOrder: 1402C18
Temperature of samples upon receipt at SLI: 3 C

Date: March 07, 2014
PO #:
QC Level:
Chain of Custody #: 119126

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- In Laboratory: EPA recommends this analyte be analyzed "immediately" (e.g., tests that should be performed in the field within 15 minutes of collection). Analytes with "immediate" hold times are analyzed as soon as possible upon receipt by the laboratory.
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

Workorder Specific Comments:

Cyanide Reactive and Sulfide Reactive
1402C18-001B
G = Samples subcontracted to STAT Analysis Corp. (IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP Lab Code 101202) , for some of the analysis requested.

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted
Report Date: March 07, 2014
Workorder: 1402C18

Client Sample ID: Waste Scan 1
Lab ID: 1402C18-001
Date Received: 02/26/2014 2:00 PM
Matrix: SOIL
Collection Date: 02/26/2014 10:10 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILES, TCLP LEACHED		Method: EPA-1311/8270C-Rev 3, Dec-96				Analyst: ls	
1,4-Dichlorobenzene	<0.100	0.100		mg/L	1	03/05/2014 7:15 PM	20522
2,4,5-Trichlorophenol	<0.100	0.100		mg/L	1	03/05/2014 7:15 PM	20522
2,4,6-Trichlorophenol	<0.100	0.100		mg/L	1	03/05/2014 7:15 PM	20522
2,4-Dinitrotoluene	<0.100	0.100		mg/L	1	03/05/2014 7:15 PM	20522
Hexachlorobenzene	<0.100	0.100		mg/L	1	03/05/2014 7:15 PM	20522
Hexachlorobutadiene	<0.100	0.100		mg/L	1	03/05/2014 7:15 PM	20522
Hexachloroethane	<0.100	0.100		mg/L	1	03/05/2014 7:15 PM	20522
m,p-Cresol	<0.100	0.100		mg/L	1	03/05/2014 7:15 PM	20522
Nitrobenzene	<0.100	0.100		mg/L	1	03/05/2014 7:15 PM	20522
O-Cresol	<0.100	0.100		mg/L	1	03/05/2014 7:15 PM	20522
Pentachlorophenol	<0.100	0.100		mg/L	1	03/05/2014 7:15 PM	20522
Pyridine	<0.100	0.100		mg/L	1	03/05/2014 7:15 PM	20522
Internal Quality Control Compounds							
SS: 2,4,6-Tribromophenol	56.3	10-190		%REC	1	03/05/2014 7:15 PM	20522
SS: 2-Fluorobiphenyl	74.5	37.7-110		%REC	1	03/05/2014 7:15 PM	20522
SS: 2-Fluorophenol	55.6	11.1-127		%REC	1	03/05/2014 7:15 PM	20522
SS: Nitrobenzene-d5	69.5	27.2-110		%REC	1	03/05/2014 7:15 PM	20522
SS: Phenol-d6	53.6	9.97-133		%REC	1	03/05/2014 7:15 PM	20522
METALS BY ICP, TCLP LEACHED		Method: EPA-1311/6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	<0.020	0.020		mg/L	1	03/05/2014 1:13 PM	20474
Barium	<0.50	0.50		mg/L	1	03/04/2014 2:20 PM	20474
Cadmium	0.0016	0.0010	J	mg/L	1	03/04/2014 2:20 PM	20474
Chromium	<0.0050	0.0050		mg/L	1	03/04/2014 2:20 PM	20474
Lead	0.025	0.0067	J	mg/L	1	03/04/2014 2:20 PM	20474
Selenium	<0.025	0.025		mg/L	1	03/04/2014 2:20 PM	20474
Silver	<0.0020	0.0020		mg/L	1	03/05/2014 1:13 PM	20474
VOLATILES, TCLP LEACHED		Method: EPA-1311/8260B-Rev 2, Dec-96				Analyst: JJ	
1,1-Dichloroethene	<0.100	0.100		mg/L	100	03/03/2014 1:14 PM	20454
1,2-Dichloroethane	<0.100	0.100		mg/L	100	03/03/2014 1:14 PM	20454
2-Butanone	<0.500	0.500		mg/L	100	03/03/2014 1:14 PM	20454
Benzene	<0.100	0.100		mg/L	100	03/03/2014 1:14 PM	20454
Carbon tetrachloride	<0.100	0.100		mg/L	100	03/03/2014 1:14 PM	20454
Chlorobenzene	<0.100	0.100		mg/L	100	03/03/2014 1:14 PM	20454

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 07, 2014
Workorder: 1402C18

Client Sample ID: Waste Scan 1
Lab ID: 1402C18-001
Date Received: 02/26/2014 2:00 PM

Matrix: SOIL
Collection Date: 02/26/2014 10:10 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILES, TCLP LEACHED		Method: EPA-1311/8260B-Rev 2, Dec-96				Analyst: JJ	
Chloroform	<0.100	0.100		mg/L	100	03/03/2014 1:14 PM	20454
Tetrachloroethene	<0.100	0.100		mg/L	100	03/03/2014 1:14 PM	20454
Trichloroethene	<0.100	0.100		mg/L	100	03/03/2014 1:14 PM	20454
Vinyl chloride	<0.100	0.100		mg/L	100	03/03/2014 1:14 PM	20454
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	99.8	70-130		%REC	100	03/03/2014 1:14 PM	20454
SS: Dibromofluoromethane	111	70-130		%REC	100	03/03/2014 1:14 PM	20454
SS: Toluene-d8	102	70-130		%REC	100	03/03/2014 1:14 PM	20454
PCBS		Method: EPA-8082-Rev 0, Dec-96				Analyst: mn	
Aroclor 1016	<0.0198	0.0198		mg/Kg-dry	1	03/04/2014 5:36 PM	20483
Aroclor 1221	<0.0198	0.0198		mg/Kg-dry	1	03/04/2014 5:36 PM	20483
Aroclor 1232	<0.0198	0.0198		mg/Kg-dry	1	03/04/2014 5:36 PM	20483
Aroclor 1242	<0.0198	0.0198		mg/Kg-dry	1	03/04/2014 5:36 PM	20483
Aroclor 1248	<0.0198	0.0198		mg/Kg-dry	1	03/04/2014 5:36 PM	20483
Aroclor 1254	<0.0198	0.0198		mg/Kg-dry	1	03/04/2014 5:36 PM	20483
Aroclor 1260	<0.0198	0.0198		mg/Kg-dry	1	03/04/2014 5:36 PM	20483
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	38.8	33.7-156		%REC	1	03/04/2014 5:36 PM	20483
CYANIDE, REACTIVE		Method:				Analyst: kac	
Reactive Cyanide	<1.0	1.0	G	mg/Kg	1	02/28/2014 12:00 AM	R44561
FLASH POINT, OPEN CUP		Method: ASTM-D92-Rev 2002b				Analyst: LAP	
Flash Point	>212	0	c	°F	1	02/27/2014 12:00 PM	R44338
MERCURY BY CVAA, TCLP		Method: EPA-1311/7470A-Rev 1, Sep-94				Analyst: jmk	
Mercury	<0.0002	0.0002		mg/L	1	03/07/2014 8:30 AM	20539
PAINT FILTER		Method: EPA-9095A-Rev 1, Dec-96				Analyst: LAP	
Free Liquids	Pass	0	c	Pass/Fail	1	02/27/2014 12:00 PM	R44338
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 07, 2014
Workorder: **1402C18**

Client Sample ID: **Waste Scan 1**
Lab ID: 1402C18-001 **Date Received:** 02/26/2014 2:00 PM

Matrix: SOIL
Collection Date: 02/26/2014 10:10 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	9.29			pH Units	1	02/26/2014 5:01 PM	R44302
PHENOLICS		Method: EPA-9065-Rev 0, Sep-86				Analyst: anb	
Phenolics, Total Recoverable	<0.307	0.307	c	mg/kg-dry	51	03/03/2014 10:15 AM	R44443
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: mkl	
Percent Moisture	17	1.0		wt%	1	02/27/2014 3:03 PM	R44347
SULFIDE, REACTIVE		Method:				Analyst: kac	
Reactive Sulfide	<10.0	10.0	G	mg/Kg-dry	1	02/28/2014 12:00 AM	R44561

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

PREP DATES REPORT

Client: Pioneer Environmental Services LLC
Report Date: March 07, 2014
Project: 63rd and Halsted
Lab Order: **1402C18**

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1402C18-001A	2/26/2014 10:10:00 A	20474	200.2_ICPT_PR	AQUEOUS PREP TOTAL METALS: ICP		2/28/2014
		20539	HG_TPR	MERCURY PREP for TCLP / SPLP		3/6/2014
		20483	3550_PCB	SOLID PREP SONICATION: PCB		3/3/2014
		20522	3510_B_T	TCLP AQ. PREP SEP FUNNEL: BNA		3/5/2014
		20454	1311ZHE	TCLP SAMPLE PREP ZHE (VOCS)		2/27/2014
		20452	1311LM	TCLP SAMPLE PREP (Metals)		2/27/2014
		20453	1311LO	TCLP SAMPLE PREP (Organics)		2/27/2014

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Qualifier Definitions

WO#: **1402C18**
Date: **3/7/2014**

Qualifiers:

*/x	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
c	Analyte not in SLI scope of accreditation
E	Estimated, detected above quantitation range
G	Refer to case narrative page for specific comments
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limit (QL)
N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit
P	Present
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits

SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Ste 150, Geneva, IL 60134 Tel. 708.544.3260 Fax: 708.544.8587 Toll Free: 800.783.LABS www.suburbanlabs.com

CHAIN OF CUSTODY RECORD

119126

Company Name: Pioneer
Company Address: 200 N Sacramento
City: CHGO State: IL Zip: 60612
Phone: 773 722 5200 Fax: ☐ Fax Report
Email Address: NSTrouble@pioneerlees.com Final Report will be emailed
Project ID / Location: 103 W & Halsted
Project Manager (Report to): Natalie
Sample Collector(s) Name: JM

TURNAROUND TIME REQUESTED
☒ Normal ☐ RUSH* *Additional Rush Charges Approved.
*Date & Time Needed:
Normal TAT is specified on the price quotation or fee schedule. Rush work must be pre-approved and additional charges apply.

Specify Regulatory Program: (Required) ☐ None/Info Only
☐ LUST ☐ SRP ☐ CCDD
☐ 503 Sludge ☐ NPDES ☐ LUST REIMBURSEMENT
☐ Disposal ☐ Other* *Please specify in comment section below.

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

Page of
PO No.
Shipping Method
Reporting Level (at additional charge) 1 2 3 4

LAB USE ONLY
SLI ORDER No. 1402C18
Sample containers supplied by customer? ☐ Yes
Temperature of Received Samples 3 °C
Samples received the same day as collection? ☐ Yes

	SAMPLE IDENTIFICATION *Use One Line Per Preservation & Container Type*	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	CORE R INCLUDING PCBS	R	Condition	Split	LAB #
1	WASTE SCAN 1	2/26/13	1010	SO		2	QUART/4oz	NONE	X				AB
2		/ /											
3		/ /											
4		/ /											
5		/ /											
6		/ /											
7		/ /											
8		/ /											
9		/ /											
10		/ /											
11		/ /											
12		/ /											

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) **CONTAINER:** 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) **PRESERVATIVE:** H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

CONDITION CODES
1. Improper/damaged container/cap
2. Improper preservation
3. Insufficient sample volume
4. Headspace/air bubbles for VOCs
5. Received past holding time
6. Received frozen
7. Label conflicts with COC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
[signature]	2/26/14						
Received By [signature] ☒ Ice present	Time 1400	Received By ☐ Ice present	Time	Received By ☐ Ice present	Time	Received By ☐ Ice present	Time

Submission of samples subject to Terms and Conditions on back. Rev. 07/20/08 White-Original, Pink-Sampler Copy

SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

March 13, 2014

Workorder: 1403047

Natalie Struble
Pioneer Environmental Services LLC
700 N. Sacramento Blvd., Suite 101
Chicago, IL 60612

TEL: (773) 722-9200
FAX: (773) 722-9201
RE: 63rd and Halsted

Dear Natalie Struble:

Suburban Laboratories, Inc. received 7 sample(s) on 3/3/2014 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation on, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Kelly Culhane

Kelly Culhane
Project Manager
708-544-3260 ext 212
kelly@suburbanlabs.com

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Case Narrative

Client: Pioneer Environmental Services LLC
Project: 63rd and Halsted
WorkOrder: 1403047
Temperature of samples upon receipt at SLI: 4 C

Date: March 13, 2014
PO #: 12-0646-102
QC Level:
Chain of Custody #: 119129

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- In Laboratory: EPA recommends this analyte be analyzed "immediately" (e.g., tests that should be performed in the field within 15 minutes of collection). Analytes with "immediate" hold times are analyzed as soon as possible upon receipt by the laboratory.
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

Workorder Specific Comments:

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: 1403047

Client Sample ID: MW-1
Lab ID: 1403047-001
Date Received: 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 3:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-SW6010B-Rev 2, Dec-96				Analyst: jmk	
Aluminum	0.185	0.0174		mg/L	1	03/05/2014 4:58 PM	20504
Arsenic	<0.0200	0.0200		mg/L	1	03/06/2014 11:42 AM	20504
Barium	0.0322	0.00500		mg/L	1	03/05/2014 4:58 PM	20504
Beryllium	<0.00250	0.00250		mg/L	1	03/05/2014 4:58 PM	20504
Cadmium	0.00295	0.00100	J	mg/L	1	03/05/2014 4:58 PM	20504
Calcium	175	0.0151		mg/L	1	03/05/2014 4:58 PM	20504
Chromium	<0.00500	0.00500		mg/L	1	03/05/2014 4:58 PM	20504
Cobalt	<0.00909	0.00909		mg/L	1	03/05/2014 4:58 PM	20504
Copper	0.00330	0.00299	J	mg/L	1	03/05/2014 4:58 PM	20504
Iron	0.196	0.0117		mg/L	1	03/05/2014 4:58 PM	20504
Magnesium	113	0.0109		mg/L	1	03/05/2014 4:58 PM	20504
Manganese	0.113	0.00882		mg/L	1	03/05/2014 4:58 PM	20504
Nickel	<0.00400	0.00400		mg/L	1	03/05/2014 4:58 PM	20504
Potassium	28.4	0.0400		mg/L	1	03/06/2014 11:42 AM	20504
Selenium	<0.0250	0.0250		mg/L	1	03/06/2014 11:42 AM	20504
Silver	<0.00200	0.00200		mg/L	1	03/05/2014 4:58 PM	20504
Sodium	317	0.100		mg/L	1	03/06/2014 11:42 AM	20504
Vanadium	0.00259	0.00259	J	mg/L	1	03/05/2014 4:58 PM	20504
Zinc	<0.0150	0.0150		mg/L	1	03/05/2014 4:58 PM	20504
METALS BY ICPMS		Method: SW846-SW6020-Rev 0, Sep-94				Analyst: sls	
Antimony	0.00208	0.00060		mg/L	1	03/07/2014 10:36 AM	20502
Lead	0.00199	0.00010		mg/L	1	03/07/2014 10:36 AM	20502
Thallium	<0.00010	0.00010		mg/L	1	03/07/2014 10:36 AM	20502
ORGANOCHLORINE PESTICIDES		Method: EPA-SW8081A-Rev 1, Dec-96				Analyst: mn	
4,4´-DDD	<0.0000500	0.0000500		mg/L	1	03/11/2014 12:29 AM	20570
4,4´-DDE	<0.0000500	0.0000500		mg/L	1	03/11/2014 12:29 AM	20570
4,4´-DDT	<0.0000500	0.0000500		mg/L	1	03/11/2014 12:29 AM	20570
Aldrin	<0.0000250	0.0000250		mg/L	1	03/11/2014 12:29 AM	20570
alpha-BHC	<0.0000250	0.0000250		mg/L	1	03/11/2014 12:29 AM	20570
alpha-Chlordane	<0.0000250	0.0000250		mg/L	1	03/11/2014 12:29 AM	20570
beta-BHC	<0.0000250	0.0000250		mg/L	1	03/11/2014 12:29 AM	20570
Chlordane	<0.000100	0.000100		mg/L	1	03/11/2014 12:29 AM	20570
delta-BHC	<0.0000250	0.0000250		mg/L	1	03/11/2014 12:29 AM	20570

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-1**
Lab ID: 1403047-001 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 3:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
ORGANOCHLORINE PESTICIDES		Method: EPA-SW8081A-Rev 1, Dec-96				Analyst: mn	
Dieldrin	<0.0000500	0.0000500		mg/L	1	03/11/2014 12:29 AM	20570
Endosulfan I	<0.0000250	0.0000250		mg/L	1	03/11/2014 12:29 AM	20570
Endosulfan II	<0.0000500	0.0000500		mg/L	1	03/11/2014 12:29 AM	20570
Endosulfan sulfate	<0.0000500	0.0000500		mg/L	1	03/11/2014 12:29 AM	20570
Endrin	<0.0000500	0.0000500		mg/L	1	03/11/2014 12:29 AM	20570
Endrin aldehyde	<0.0000500	0.0000500		mg/L	1	03/11/2014 12:29 AM	20570
Endrin ketone	<0.0000500	0.0000500		mg/L	1	03/11/2014 12:29 AM	20570
gamma-BHC	<0.0000250	0.0000250		mg/L	1	03/11/2014 12:29 AM	20570
gamma-Chlordane	<0.0000250	0.0000250		mg/L	1	03/11/2014 12:29 AM	20570
Heptachlor	<0.0000250	0.0000250		mg/L	1	03/11/2014 12:29 AM	20570
Heptachlor epoxide	<0.0000250	0.0000250		mg/L	1	03/11/2014 12:29 AM	20570
Methoxychlor	<0.000250	0.000250		mg/L	1	03/11/2014 12:29 AM	20570
Toxaphene	<0.000200	0.000200		mg/L	1	03/11/2014 12:29 AM	20570
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	61.4	31-143		%REC	1	03/11/2014 12:29 AM	20570
PCBS		Method: EPA-SW8082-Rev 0, Dec-96				Analyst: mn	
Aroclor 1016	<0.000100	0.000100		mg/L	1	03/11/2014 12:29 AM	20571
Aroclor 1221	<0.000100	0.000100		mg/L	1	03/11/2014 12:29 AM	20571
Aroclor 1232	<0.000100	0.000100		mg/L	1	03/11/2014 12:29 AM	20571
Aroclor 1242	<0.000100	0.000100		mg/L	1	03/11/2014 12:29 AM	20571
Aroclor 1248	<0.000100	0.000100		mg/L	1	03/11/2014 12:29 AM	20571
Aroclor 1254	<0.000100	0.000100		mg/L	1	03/11/2014 12:29 AM	20571
Aroclor 1260	<0.000100	0.000100		mg/L	1	03/11/2014 12:29 AM	20571
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	70.0	40.4-143		%REC	1	03/11/2014 12:29 AM	20571
VOLATILE ORGANIC COMPOUNDS		Method: EPA-SW8260B-Rev 2, Dec-96				Analyst: JJ	
Total 1,3-Dichloropropene	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
1,1,1-Trichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
1,1,2,2-Tetrachloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
1,1,2-Trichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
1,1-Dichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
1,1-Dichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
1,2-Dibromo-3-chloropropane	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
1,2-Dibromoethane	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-1**
Lab ID: 1403047-001 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 3:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-SW8260B-Rev 2, Dec-96				Analyst: JJ	
1,2-Dichlorobenzene	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
1,2-Dichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
1,2-Dichloropropane	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
1,4-Dichlorobenzene	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
2-Butanone	<0.0100	0.0100		mg/L	1	03/04/2014 2:35 PM	R44471
2-Chloroethyl vinyl ether	<0.0100	0.0100		mg/L	1	03/04/2014 2:35 PM	R44471
2-Hexanone	<0.0250	0.0250		mg/L	1	03/04/2014 2:35 PM	R44471
4-Methyl-2-pentanone	<0.0250	0.0250		mg/L	1	03/04/2014 2:35 PM	R44471
Acetone	<0.0250	0.0250		mg/L	1	03/04/2014 2:35 PM	R44471
Acrolein	<0.0250	0.0250		mg/L	1	03/04/2014 2:35 PM	R44471
Acrylonitrile	<0.0250	0.0250		mg/L	1	03/04/2014 2:35 PM	R44471
Benzene	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
Bromodichloromethane	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
Bromoform	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
Bromomethane	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
Carbon disulfide	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
Carbon tetrachloride	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
Chlorobenzene	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
Chloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
Chloroform	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
Chloromethane	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
cis-1,2-Dichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
cis-1,3-Dichloropropene	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
Dibromochloromethane	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
Dichlorodifluoromethane	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
Ethylbenzene	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
Hexachloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
Isopropylbenzene	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
m,p-Xylene	<0.00200	0.00200		mg/L	1	03/04/2014 2:35 PM	R44471
Methyl tert-butyl ether	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
Methylene chloride	<0.00500	0.00500		mg/L	1	03/04/2014 2:35 PM	R44471
Naphthalene	<0.00200	0.00200		mg/L	1	03/04/2014 2:35 PM	R44471
o-Xylene	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
Total Xylenes	<0.00200	0.00200		mg/L	1	03/04/2014 2:35 PM	R44471
Styrene	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
Tetrachloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
Toluene	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-1**
Lab ID: 1403047-001 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 3:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-SW8260B-Rev 2, Dec-96				Analyst: JJ	
trans-1,2-Dichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
trans-1,3-Dichloropropene	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
Trichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
Trichlorofluoromethane	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
Vinyl acetate	<0.0250	0.0250		mg/L	1	03/04/2014 2:35 PM	R44471
Vinyl chloride	<0.00100	0.00100		mg/L	1	03/04/2014 2:35 PM	R44471
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	101	67.9-119		%REC	1	03/04/2014 2:35 PM	R44471
SS: Dibromofluoromethane	115	62.3-122		%REC	1	03/04/2014 2:35 PM	R44471
SS: Toluene-d8	105	68.2-119		%REC	1	03/04/2014 2:35 PM	R44471
VOCS, EXTENDED ANALYTE LIST		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
1,4-Dioxane	<0.100	0.100		mg/L	1	03/04/2014 2:35 PM	R44471
n-Butanol	<0.100	0.100	c	mg/L	1	03/04/2014 2:35 PM	R44471
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,2,4-Trichlorobenzene	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
1,2-Dichlorobenzene	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
1,3-Dichlorobenzene	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
1,4-Dichlorobenzene	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
2,4,5-Trichlorophenol	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
2,4,6-Trichlorophenol	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
2,4-Dichlorophenol	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
2,4-Dimethylphenol	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
2,4-Dinitrophenol	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
2,4-Dinitrotoluene	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
2,6-Dinitrotoluene	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
2-Chloronaphthalene	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
2-Chlorophenol	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
2-Methylnaphthalene	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
2-Nitroaniline	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
2-Nitrophenol	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
3,3-Dichlorobenzidine	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
3-Nitroaniline	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
4,6-Dinitro-2-methylphenol	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
4-Bromophenyl phenyl ether	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-1**
Lab ID: 1403047-001 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 3:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
4-Chloro-3-methylphenol	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
4-Chloroaniline	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
4-Chlorophenyl phenyl ether	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
4-Nitroaniline	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
4-Nitrophenol	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
Bis(2-chloroethoxy)methane	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
Bis(2-chloroethyl)ether	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
Bis(2-chloroisopropyl)ether	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
Bis(2-ethylhexyl)phthalate	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
Butyl benzyl phthalate	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
Carbazole	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
Dibenzofuran	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
Diethyl phthalate	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
Dimethyl phthalate	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
Di-n-butyl phthalate	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
Di-n-octyl phthalate	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
Hexachlorobenzene	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
Hexachlorobutadiene	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
Hexachlorocyclopentadiene	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
Hexachloroethane	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
Isophorone	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
m,p-Cresol	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
Nitrobenzene	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
N-Nitroso-di-n-propylamine	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
N-Nitrosodiphenylamine	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
o-Cresol	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
Pentachlorophenol	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
Phenol	<0.010	0.010		mg/L	1	03/10/2014 3:11 PM	20566
Internal Quality Control Compounds							
SS: 2,4,6-Tribromophenol	43.2	36.6-133		%REC	1	03/10/2014 3:11 PM	20566
SS: 2-Fluorobiphenyl	57.9	26.8-113		%REC	1	03/10/2014 3:11 PM	20566
SS: 2-Fluorophenol	41.2	0.1-110		%REC	1	03/10/2014 3:11 PM	20566
SS: 4-Terphenyl-d14	46.8	31.3-152		%REC	1	03/10/2014 3:11 PM	20566
SS: Nitrobenzene-d5	49.3	13.8-115		%REC	1	03/10/2014 3:11 PM	20566
SS: Phenol-d6	26.7	1.14-110		%REC	1	03/10/2014 3:11 PM	20566
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-1**
Lab ID: 1403047-001 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 3:00 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	0.000182	0.000100		mg/L	1	03/10/2014 11:32 AM	20558
Acenaphthylene	<0.000100	0.000100		mg/L	1	03/10/2014 11:32 AM	20558
Anthracene	0.000128	0.000100		mg/L	1	03/10/2014 11:32 AM	20558
Benzo(a)anthracene	0.000292	0.000100		mg/L	1	03/10/2014 11:32 AM	20558
Benzo(a)pyrene	0.000284	0.000100		mg/L	1	03/10/2014 11:32 AM	20558
Benzo(b)fluoranthene	0.000370	0.000100		mg/L	1	03/10/2014 11:32 AM	20558
Benzo(g,h,i)perylene	0.000182	0.000100		mg/L	1	03/10/2014 11:32 AM	20558
Benzo(k)fluoranthene	0.000142	0.000100		mg/L	1	03/10/2014 11:32 AM	20558
Chrysene	0.000305	0.000100		mg/L	1	03/10/2014 11:32 AM	20558
Dibenzo(a,h)anthracene	<0.000100	0.000100		mg/L	1	03/10/2014 11:32 AM	20558
Fluoranthene	0.000695	0.000100		mg/L	1	03/10/2014 11:32 AM	20558
Fluorene	<0.000100	0.000100		mg/L	1	03/10/2014 11:32 AM	20558
Indeno(1,2,3-cd)pyrene	0.000143	0.000100		mg/L	1	03/10/2014 11:32 AM	20558
Naphthalene	<0.000100	0.000100		mg/L	1	03/10/2014 11:32 AM	20558
Phenanthrene	0.000524	0.000100		mg/L	1	03/10/2014 11:32 AM	20558
Pyrene	0.000583	0.000100		mg/L	1	03/10/2014 11:32 AM	20558
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	77.7	26.8-113		%REC	1	03/10/2014 11:32 AM	20558
SS: 4-Terphenyl-d14	95.4	31.3-152		%REC	1	03/10/2014 11:32 AM	20558
SS: Nitrobenzene-d5	76.6	13.8-115		%REC	1	03/10/2014 11:32 AM	20558
CYANIDE, TOTAL		Method: APHA-4500CN CE-Rev 18Ed, 1992				Analyst: LAP	
Cyanide	<0.01	0.01		mg/L	1	03/07/2014 11:55 AM	R44621
MERCURY BY CVAA		Method: EPA-SW7470A-Rev 1, Sep-94				Analyst: jmk	
Mercury	<0.0002	0.0002		mg/L	1	03/07/2014 8:30 AM	20540

Client Sample ID: **MW-2**
Lab ID: 1403047-002 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 12:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-2**
Lab ID: 1403047-002 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 12:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-SW6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	<0.0200	0.0200		mg/L	1	03/06/2014 12:09 PM	20504
Barium	0.0762	0.00500		mg/L	1	03/05/2014 5:30 PM	20504
Cadmium	0.00219	0.00100	J	mg/L	1	03/05/2014 5:30 PM	20504
Chromium	<0.00500	0.00500		mg/L	1	03/05/2014 5:30 PM	20504
Lead	<0.00671	0.00671		mg/L	1	03/05/2014 5:30 PM	20504
Selenium	<0.0250	0.0250		mg/L	1	03/06/2014 12:09 PM	20504
Silver	<0.00200	0.00200		mg/L	1	03/05/2014 5:30 PM	20504
VOLATILE ORGANIC COMPOUNDS		Method: EPA-SW8260B-Rev 2, Dec-96				Analyst: JJ	
Total 1,3-Dichloropropene	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
1,1,1-Trichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
1,1,2,2-Tetrachloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
1,1,2-Trichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
1,1-Dichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
1,1-Dichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
1,2-Dibromo-3-chloropropane	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
1,2-Dibromoethane	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
1,2-Dichlorobenzene	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
1,2-Dichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
1,2-Dichloropropane	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
1,4-Dichlorobenzene	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
2-Butanone	<0.0100	0.0100		mg/L	1	03/04/2014 3:41 PM	R44471
2-Chloroethyl vinyl ether	<0.0100	0.0100		mg/L	1	03/04/2014 3:41 PM	R44471
2-Hexanone	<0.0250	0.0250		mg/L	1	03/04/2014 3:41 PM	R44471
4-Methyl-2-pentanone	<0.0250	0.0250		mg/L	1	03/04/2014 3:41 PM	R44471
Acetone	<0.0250	0.0250		mg/L	1	03/04/2014 3:41 PM	R44471
Acrolein	<0.0250	0.0250		mg/L	1	03/04/2014 3:41 PM	R44471
Acrylonitrile	<0.0250	0.0250		mg/L	1	03/04/2014 3:41 PM	R44471
Benzene	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
Bromodichloromethane	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
Bromoform	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
Bromomethane	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
Carbon disulfide	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
Carbon tetrachloride	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
Chlorobenzene	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-2**
Lab ID: 1403047-002 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 12:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-SW8260B-Rev 2, Dec-96				Analyst: JJ	
Chloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
Chloroform	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
Chloromethane	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
cis-1,2-Dichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
cis-1,3-Dichloropropene	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
Dibromochloromethane	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
Dichlorodifluoromethane	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
Ethylbenzene	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
Hexachloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
Isopropylbenzene	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
m,p-Xylene	<0.00200	0.00200		mg/L	1	03/04/2014 3:41 PM	R44471
Methyl tert-butyl ether	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
Methylene chloride	<0.00500	0.00500		mg/L	1	03/04/2014 3:41 PM	R44471
Naphthalene	0.00350	0.00200		mg/L	1	03/04/2014 3:41 PM	R44471
o-Xylene	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
Total Xylenes	<0.00200	0.00200		mg/L	1	03/04/2014 3:41 PM	R44471
Styrene	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
Tetrachloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
Toluene	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
trans-1,2-Dichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
trans-1,3-Dichloropropene	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
Trichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
Trichlorofluoromethane	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
Vinyl acetate	<0.0250	0.0250		mg/L	1	03/04/2014 3:41 PM	R44471
Vinyl chloride	<0.00100	0.00100		mg/L	1	03/04/2014 3:41 PM	R44471
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	102	67.9-119		%REC	1	03/04/2014 3:41 PM	R44471
SS: Dibromofluoromethane	114	62.3-122		%REC	1	03/04/2014 3:41 PM	R44471
SS: Toluene-d8	102	68.2-119		%REC	1	03/04/2014 3:41 PM	R44471
VOCS, EXTENDED ANALYTE LIST		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
1,4-Dioxane	<0.100	0.100		mg/L	1	03/04/2014 3:41 PM	R44471
n-Butanol	<0.100	0.100	c	mg/L	1	03/04/2014 3:41 PM	R44471
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	0.000926	0.000100		mg/L	1	03/10/2014 12:07 PM	20558

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-2**
Lab ID: 1403047-002 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 12:30 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthylene	<0.000100	0.000100		mg/L	1	03/10/2014 12:07 PM	20558
Anthracene	0.000363	0.000100		mg/L	1	03/10/2014 12:07 PM	20558
Benzo(a)anthracene	<0.000100	0.000100		mg/L	1	03/10/2014 12:07 PM	20558
Benzo(a)pyrene	<0.000100	0.000100		mg/L	1	03/10/2014 12:07 PM	20558
Benzo(b)fluoranthene	<0.000100	0.000100		mg/L	1	03/10/2014 12:07 PM	20558
Benzo(g,h,i)perylene	<0.000100	0.000100		mg/L	1	03/10/2014 12:07 PM	20558
Benzo(k)fluoranthene	<0.000100	0.000100		mg/L	1	03/10/2014 12:07 PM	20558
Chrysene	<0.000100	0.000100		mg/L	1	03/10/2014 12:07 PM	20558
Dibenzo(a,h)anthracene	<0.000100	0.000100		mg/L	1	03/10/2014 12:07 PM	20558
Fluoranthene	0.000559	0.000100		mg/L	1	03/10/2014 12:07 PM	20558
Fluorene	0.00162	0.000100		mg/L	1	03/10/2014 12:07 PM	20558
Indeno(1,2,3-cd)pyrene	<0.000100	0.000100		mg/L	1	03/10/2014 12:07 PM	20558
Naphthalene	<0.000100	0.000100		mg/L	1	03/10/2014 12:07 PM	20558
Phenanthrene	0.00187	0.000100		mg/L	1	03/10/2014 12:07 PM	20558
Pyrene	0.000502	0.000100		mg/L	1	03/10/2014 12:07 PM	20558
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	70.7	26.8-113		%REC	1	03/10/2014 12:07 PM	20558
SS: 4-Terphenyl-d14	89.9	31.3-152		%REC	1	03/10/2014 12:07 PM	20558
SS: Nitrobenzene-d5	71.8	13.8-115		%REC	1	03/10/2014 12:07 PM	20558
MERCURY BY CVAA		Method: EPA-SW7470A-Rev 1, Sep-94				Analyst: jmk	
Mercury	<0.0002	0.0002		mg/L	1	03/07/2014 8:30 AM	20540

Client Sample ID: **MW-3**
Lab ID: 1403047-003 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 2:28 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

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1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: 1403047

Client Sample ID: MW-3
Lab ID: 1403047-003
Date Received: 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 2:28 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-SW6010B-Rev 2, Dec-96				Analyst: jmk	
Aluminum	0.112	0.0174		mg/L	1	03/05/2014 5:06 PM	20504
Arsenic	0.0307	0.0200		mg/L	1	03/06/2014 11:49 AM	20504
Barium	0.0836	0.00500		mg/L	1	03/05/2014 5:06 PM	20504
Beryllium	<0.00250	0.00250		mg/L	1	03/05/2014 5:06 PM	20504
Cadmium	<0.00100	0.00100		mg/L	1	03/05/2014 5:06 PM	20504
Calcium	270	0.0151		mg/L	1	03/05/2014 5:06 PM	20504
Chromium	<0.00500	0.00500		mg/L	1	03/05/2014 5:06 PM	20504
Cobalt	<0.00909	0.00909		mg/L	1	03/05/2014 5:06 PM	20504
Copper	<0.00299	0.00299		mg/L	1	03/05/2014 5:06 PM	20504
Iron	0.0831	0.0117		mg/L	1	03/05/2014 5:06 PM	20504
Magnesium	9.76	0.0109		mg/L	1	03/05/2014 5:06 PM	20504
Manganese	0.0170	0.00882	J	mg/L	1	03/05/2014 5:06 PM	20504
Nickel	0.00459	0.00400	J	mg/L	1	03/05/2014 5:06 PM	20504
Potassium	88.4	0.0400		mg/L	1	03/06/2014 11:49 AM	20504
Selenium	<0.0250	0.0250		mg/L	1	03/06/2014 11:49 AM	20504
Silver	<0.00200	0.00200		mg/L	1	03/05/2014 5:06 PM	20504
Sodium	66.3	0.100		mg/L	1	03/06/2014 11:49 AM	20504
Vanadium	<0.00259	0.00259		mg/L	1	03/05/2014 5:06 PM	20504
Zinc	<0.0150	0.0150		mg/L	1	03/05/2014 5:06 PM	20504
METALS BY ICPMS		Method: SW846-SW6020-Rev 0, Sep-94				Analyst: sls	
Antimony	<0.00060	0.00060		mg/L	1	03/07/2014 10:39 AM	20502
Lead	0.00085	0.00010		mg/L	1	03/07/2014 10:39 AM	20502
Thallium	<0.00010	0.00010		mg/L	1	03/07/2014 10:39 AM	20502
ORGANOCHLORINE PESTICIDES		Method: EPA-SW8081A-Rev 1, Dec-96				Analyst: mn	
4,4´-DDD	<0.0000500	0.0000500		mg/L	1	03/11/2014 12:48 AM	20570
4,4´-DDE	<0.0000500	0.0000500		mg/L	1	03/11/2014 12:48 AM	20570
4,4´-DDT	<0.0000500	0.0000500		mg/L	1	03/11/2014 12:48 AM	20570
Aldrin	<0.0000250	0.0000250		mg/L	1	03/11/2014 12:48 AM	20570
alpha-BHC	<0.0000250	0.0000250		mg/L	1	03/11/2014 12:48 AM	20570
alpha-Chlordane	<0.0000250	0.0000250		mg/L	1	03/11/2014 12:48 AM	20570
beta-BHC	<0.0000250	0.0000250		mg/L	1	03/11/2014 12:48 AM	20570
Chlordane	<0.000100	0.000100		mg/L	1	03/11/2014 12:48 AM	20570
delta-BHC	<0.0000250	0.0000250		mg/L	1	03/11/2014 12:48 AM	20570

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-3**
Lab ID: 1403047-003 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 2:28 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
ORGANOCHLORINE PESTICIDES		Method: EPA-SW8081A-Rev 1, Dec-96				Analyst: mn	
Dieldrin	<0.0000500	0.0000500		mg/L	1	03/11/2014 12:48 AM	20570
Endosulfan I	<0.0000250	0.0000250		mg/L	1	03/11/2014 12:48 AM	20570
Endosulfan II	<0.0000500	0.0000500		mg/L	1	03/11/2014 12:48 AM	20570
Endosulfan sulfate	<0.0000500	0.0000500		mg/L	1	03/11/2014 12:48 AM	20570
Endrin	<0.0000500	0.0000500		mg/L	1	03/11/2014 12:48 AM	20570
Endrin aldehyde	<0.0000500	0.0000500		mg/L	1	03/11/2014 12:48 AM	20570
Endrin ketone	<0.0000500	0.0000500		mg/L	1	03/11/2014 12:48 AM	20570
gamma-BHC	<0.0000250	0.0000250		mg/L	1	03/12/2014 3:23 PM	20570
gamma-Chlordane	<0.0000250	0.0000250		mg/L	1	03/11/2014 12:48 AM	20570
Heptachlor	<0.0000250	0.0000250		mg/L	1	03/11/2014 12:48 AM	20570
Heptachlor epoxide	<0.0000250	0.0000250		mg/L	1	03/11/2014 12:48 AM	20570
Methoxychlor	<0.000250	0.000250		mg/L	1	03/11/2014 12:48 AM	20570
Toxaphene	<0.000200	0.000200		mg/L	1	03/11/2014 12:48 AM	20570
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	54.2	31-143		%REC	1	03/11/2014 12:48 AM	20570
PCBS		Method: EPA-SW8082-Rev 0, Dec-96				Analyst: mn	
Aroclor 1016	<0.000100	0.000100		mg/L	1	03/11/2014 12:48 AM	20571
Aroclor 1221	<0.000100	0.000100		mg/L	1	03/11/2014 12:48 AM	20571
Aroclor 1232	<0.000100	0.000100		mg/L	1	03/11/2014 12:48 AM	20571
Aroclor 1242	<0.000100	0.000100		mg/L	1	03/11/2014 12:48 AM	20571
Aroclor 1248	<0.000100	0.000100		mg/L	1	03/11/2014 12:48 AM	20571
Aroclor 1254	<0.000100	0.000100		mg/L	1	03/11/2014 12:48 AM	20571
Aroclor 1260	<0.000100	0.000100		mg/L	1	03/11/2014 12:48 AM	20571
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	61.3	40.4-143		%REC	1	03/11/2014 12:48 AM	20571
VOLATILE ORGANIC COMPOUNDS		Method: EPA-SW8260B-Rev 2, Dec-96				Analyst: JJ	
Total 1,3-Dichloropropene	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
1,1,1-Trichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
1,1,2,2-Tetrachloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
1,1,2-Trichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
1,1-Dichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
1,1-Dichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
1,2-Dibromo-3-chloropropane	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
1,2-Dibromoethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-3**
Lab ID: 1403047-003 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 2:28 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-SW8260B-Rev 2, Dec-96				Analyst: JJ	
1,2-Dichlorobenzene	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
1,2-Dichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
1,2-Dichloropropane	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
1,4-Dichlorobenzene	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
2-Butanone	<0.0100	0.0100		mg/L	1	03/04/2014 4:14 PM	R44471
2-Chloroethyl vinyl ether	<0.0100	0.0100		mg/L	1	03/04/2014 4:14 PM	R44471
2-Hexanone	<0.0250	0.0250		mg/L	1	03/04/2014 4:14 PM	R44471
4-Methyl-2-pentanone	<0.0250	0.0250		mg/L	1	03/04/2014 4:14 PM	R44471
Acetone	<0.0250	0.0250		mg/L	1	03/04/2014 4:14 PM	R44471
Acrolein	<0.0250	0.0250		mg/L	1	03/04/2014 4:14 PM	R44471
Acrylonitrile	<0.0250	0.0250		mg/L	1	03/04/2014 4:14 PM	R44471
Benzene	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
Bromodichloromethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
Bromoform	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
Bromomethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
Carbon disulfide	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
Carbon tetrachloride	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
Chlorobenzene	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
Chloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
Chloroform	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
Chloromethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
cis-1,2-Dichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
cis-1,3-Dichloropropene	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
Dibromochloromethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
Dichlorodifluoromethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
Ethylbenzene	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
Hexachloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
Isopropylbenzene	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
m,p-Xylene	<0.00200	0.00200		mg/L	1	03/04/2014 4:14 PM	R44471
Methyl tert-butyl ether	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
Methylene chloride	<0.00500	0.00500		mg/L	1	03/04/2014 4:14 PM	R44471
Naphthalene	<0.00200	0.00200		mg/L	1	03/04/2014 4:14 PM	R44471
o-Xylene	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
Total Xylenes	<0.00200	0.00200		mg/L	1	03/04/2014 4:14 PM	R44471
Styrene	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
Tetrachloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
Toluene	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-3**
Lab ID: 1403047-003 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 2:28 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-SW8260B-Rev 2, Dec-96				Analyst: JJ	
trans-1,2-Dichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
trans-1,3-Dichloropropene	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
Trichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
Trichlorofluoromethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
Vinyl acetate	<0.0250	0.0250		mg/L	1	03/04/2014 4:14 PM	R44471
Vinyl chloride	<0.00100	0.00100		mg/L	1	03/04/2014 4:14 PM	R44471
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	101	67.9-119		%REC	1	03/04/2014 4:14 PM	R44471
SS: Dibromofluoromethane	114	62.3-122		%REC	1	03/04/2014 4:14 PM	R44471
SS: Toluene-d8	103	68.2-119		%REC	1	03/04/2014 4:14 PM	R44471
VOCS, EXTENDED ANALYTE LIST		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
1,4-Dioxane	<0.100	0.100		mg/L	1	03/04/2014 4:14 PM	R44471
n-Butanol	<0.100	0.100	c	mg/L	1	03/04/2014 4:14 PM	R44471
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,2,4-Trichlorobenzene	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
1,2-Dichlorobenzene	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
1,3-Dichlorobenzene	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
1,4-Dichlorobenzene	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
2,4,5-Trichlorophenol	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
2,4,6-Trichlorophenol	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
2,4-Dichlorophenol	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
2,4-Dimethylphenol	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
2,4-Dinitrophenol	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
2,4-Dinitrotoluene	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
2,6-Dinitrotoluene	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
2-Chloronaphthalene	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
2-Chlorophenol	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
2-Methylnaphthalene	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
2-Nitroaniline	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
2-Nitrophenol	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
3,3-Dichlorobenzidine	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
3-Nitroaniline	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
4,6-Dinitro-2-methylphenol	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
4-Bromophenyl phenyl ether	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-3**
Lab ID: 1403047-003 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 2:28 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
4-Chloro-3-methylphenol	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
4-Chloroaniline	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
4-Chlorophenyl phenyl ether	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
4-Nitroaniline	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
4-Nitrophenol	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
Bis(2-chloroethoxy)methane	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
Bis(2-chloroethyl)ether	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
Bis(2-chloroisopropyl)ether	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
Bis(2-ethylhexyl)phthalate	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
Butyl benzyl phthalate	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
Carbazole	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
Dibenzofuran	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
Diethyl phthalate	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
Dimethyl phthalate	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
Di-n-butyl phthalate	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
Di-n-octyl phthalate	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
Hexachlorobenzene	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
Hexachlorobutadiene	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
Hexachlorocyclopentadiene	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
Hexachloroethane	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
Isophorone	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
m,p-Cresol	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
Nitrobenzene	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
N-Nitroso-di-n-propylamine	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
N-Nitrosodiphenylamine	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
o-Cresol	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
Pentachlorophenol	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
Phenol	<0.010	0.010		mg/L	1	03/10/2014 3:49 PM	20566
Internal Quality Control Compounds							
SS: 2,4,6-Tribromophenol	48.4	36.6-133		%REC	1	03/10/2014 3:49 PM	20566
SS: 2-Fluorobiphenyl	55.3	26.8-113		%REC	1	03/10/2014 3:49 PM	20566
SS: 2-Fluorophenol	37.0	0.1-110		%REC	1	03/10/2014 3:49 PM	20566
SS: 4-Terphenyl-d14	66.0	31.3-152		%REC	1	03/10/2014 3:49 PM	20566
SS: Nitrobenzene-d5	47.1	13.8-115		%REC	1	03/10/2014 3:49 PM	20566
SS: Phenol-d6	24.0	1.14-110		%REC	1	03/10/2014 3:49 PM	20566
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-3**
Lab ID: 1403047-003 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 2:28 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	0.000855	0.000100		mg/L	1	03/10/2014 12:42 PM	20558
Acenaphthylene	<0.000100	0.000100		mg/L	1	03/10/2014 12:42 PM	20558
Anthracene	0.000138	0.000100		mg/L	1	03/10/2014 12:42 PM	20558
Benzo(a)anthracene	0.000113	0.000100		mg/L	1	03/10/2014 12:42 PM	20558
Benzo(a)pyrene	0.000123	0.000100		mg/L	1	03/10/2014 12:42 PM	20558
Benzo(b)fluoranthene	0.000118	0.000100		mg/L	1	03/10/2014 12:42 PM	20558
Benzo(g,h,i)perylene	<0.000100	0.000100		mg/L	1	03/10/2014 12:42 PM	20558
Benzo(k)fluoranthene	<0.000100	0.000100		mg/L	1	03/10/2014 12:42 PM	20558
Chrysene	<0.000100	0.000100		mg/L	1	03/10/2014 12:42 PM	20558
Dibenzo(a,h)anthracene	<0.000100	0.000100		mg/L	1	03/10/2014 12:42 PM	20558
Fluoranthene	0.000345	0.000100		mg/L	1	03/10/2014 12:42 PM	20558
Fluorene	0.000221	0.000100		mg/L	1	03/10/2014 12:42 PM	20558
Indeno(1,2,3-cd)pyrene	<0.000100	0.000100		mg/L	1	03/10/2014 12:42 PM	20558
Naphthalene	0.000673	0.000100		mg/L	1	03/10/2014 12:42 PM	20558
Phenanthrene	0.000664	0.000100		mg/L	1	03/10/2014 12:42 PM	20558
Pyrene	0.000281	0.000100		mg/L	1	03/10/2014 12:42 PM	20558
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	77.9	26.8-113		%REC	1	03/10/2014 12:42 PM	20558
SS: 4-Terphenyl-d14	94.7	31.3-152		%REC	1	03/10/2014 12:42 PM	20558
SS: Nitrobenzene-d5	74.9	13.8-115		%REC	1	03/10/2014 12:42 PM	20558
CYANIDE, TOTAL		Method: APHA-4500CN CE-Rev 18Ed, 1992				Analyst: LAP	
Cyanide	<0.01	0.01		mg/L	1	03/10/2014 4:11 PM	R44680
MERCURY BY CVAA		Method: EPA-SW7470A-Rev 1, Sep-94				Analyst: jmk	
Mercury	<0.0002	0.0002		mg/L	1	03/07/2014 8:30 AM	20540

Client Sample ID: **MW-4**
Lab ID: 1403047-004 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 11:43 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-4**
Lab ID: 1403047-004 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 11:43 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-SW6010B-Rev 2, Dec-96				Analyst: jmk	
Aluminum	0.0580	0.0174		mg/L	1	03/05/2014 5:15 PM	20504
Arsenic	0.0237	0.0200	J	mg/L	1	03/06/2014 11:55 AM	20504
Barium	0.100	0.00500		mg/L	1	03/05/2014 5:15 PM	20504
Beryllium	<0.00250	0.00250		mg/L	1	03/05/2014 5:15 PM	20504
Cadmium	0.00193	0.00100	J	mg/L	1	03/05/2014 5:15 PM	20504
Calcium	151	0.0151		mg/L	1	03/05/2014 5:15 PM	20504
Chromium	<0.00500	0.00500		mg/L	1	03/05/2014 5:15 PM	20504
Cobalt	<0.00909	0.00909		mg/L	1	03/05/2014 5:15 PM	20504
Copper	0.00484	0.00299	J	mg/L	1	03/05/2014 5:15 PM	20504
Iron	0.0679	0.0117		mg/L	1	03/05/2014 5:15 PM	20504
Magnesium	86.6	0.0109		mg/L	1	03/05/2014 5:15 PM	20504
Manganese	0.202	0.00882		mg/L	1	03/05/2014 5:15 PM	20504
Nickel	<0.00400	0.00400		mg/L	1	03/05/2014 5:15 PM	20504
Potassium	13.5	0.0400		mg/L	1	03/06/2014 11:55 AM	20504
Selenium	<0.0250	0.0250		mg/L	1	03/06/2014 11:55 AM	20504
Silver	<0.00200	0.00200		mg/L	1	03/05/2014 5:15 PM	20504
Sodium	374	0.100		mg/L	1	03/06/2014 11:55 AM	20504
Vanadium	<0.00259	0.00259		mg/L	1	03/05/2014 5:15 PM	20504
Zinc	<0.0150	0.0150		mg/L	1	03/05/2014 5:15 PM	20504
METALS BY ICPMS		Method: SW846-SW6020-Rev 0, Sep-94				Analyst: sls	
Antimony	<0.00060	0.00060		mg/L	1	03/07/2014 10:43 AM	20502
Lead	0.00043	0.00010		mg/L	1	03/07/2014 10:43 AM	20502
Thallium	<0.00020	0.00020		mg/L	1	03/10/2014 4:09 PM	20502
ORGANOCHLORINE PESTICIDES		Method: EPA-SW8081A-Rev 1, Dec-96				Analyst: mn	
4,4´-DDD	<0.0000500	0.0000500		mg/L	1	03/11/2014 1:08 AM	20570
4,4´-DDE	<0.0000500	0.0000500		mg/L	1	03/11/2014 1:08 AM	20570
4,4´-DDT	<0.0000500	0.0000500		mg/L	1	03/11/2014 1:08 AM	20570
Aldrin	<0.0000250	0.0000250		mg/L	1	03/11/2014 1:08 AM	20570
alpha-BHC	<0.0000250	0.0000250		mg/L	1	03/11/2014 1:08 AM	20570
alpha-Chlordane	<0.0000250	0.0000250		mg/L	1	03/11/2014 1:08 AM	20570
beta-BHC	<0.0000250	0.0000250		mg/L	1	03/11/2014 1:08 AM	20570
Chlordane	<0.000100	0.000100		mg/L	1	03/11/2014 1:08 AM	20570
delta-BHC	<0.0000250	0.0000250		mg/L	1	03/11/2014 1:08 AM	20570

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

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Workorder: **1403047**

Client Sample ID: **MW-4**
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Matrix: GROUNDWATER
Collection Date: 03/03/2014 11:43 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
ORGANOCHLORINE PESTICIDES		Method: EPA-SW8081A-Rev 1, Dec-96				Analyst: mn	
Dieldrin	<0.0000500	0.0000500		mg/L	1	03/11/2014 1:08 AM	20570
Endosulfan I	<0.0000250	0.0000250		mg/L	1	03/11/2014 1:08 AM	20570
Endosulfan II	<0.0000500	0.0000500		mg/L	1	03/11/2014 1:08 AM	20570
Endosulfan sulfate	<0.0000500	0.0000500		mg/L	1	03/11/2014 1:08 AM	20570
Endrin	<0.0000500	0.0000500		mg/L	1	03/11/2014 1:08 AM	20570
Endrin aldehyde	<0.0000500	0.0000500		mg/L	1	03/11/2014 1:08 AM	20570
Endrin ketone	<0.0000500	0.0000500		mg/L	1	03/11/2014 1:08 AM	20570
gamma-BHC	<0.0000250	0.0000250		mg/L	1	03/12/2014 3:42 PM	20570
gamma-Chlordane	<0.0000250	0.0000250		mg/L	1	03/11/2014 1:08 AM	20570
Heptachlor	<0.0000250	0.0000250		mg/L	1	03/11/2014 1:08 AM	20570
Heptachlor epoxide	<0.0000250	0.0000250		mg/L	1	03/11/2014 1:08 AM	20570
Methoxychlor	<0.000250	0.000250		mg/L	1	03/11/2014 1:08 AM	20570
Toxaphene	<0.000200	0.000200		mg/L	1	03/11/2014 1:08 AM	20570
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	58.6	31-143		%REC	1	03/11/2014 1:08 AM	20570
PCBS		Method: EPA-SW8082-Rev 0, Dec-96				Analyst: mn	
Aroclor 1016	<0.000100	0.000100		mg/L	1	03/11/2014 1:08 AM	20571
Aroclor 1221	<0.000100	0.000100		mg/L	1	03/11/2014 1:08 AM	20571
Aroclor 1232	<0.000100	0.000100		mg/L	1	03/11/2014 1:08 AM	20571
Aroclor 1242	<0.000100	0.000100		mg/L	1	03/11/2014 1:08 AM	20571
Aroclor 1248	<0.000100	0.000100		mg/L	1	03/11/2014 1:08 AM	20571
Aroclor 1254	<0.000100	0.000100		mg/L	1	03/11/2014 1:08 AM	20571
Aroclor 1260	<0.000100	0.000100		mg/L	1	03/11/2014 1:08 AM	20571
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	67.5	40.4-143		%REC	1	03/11/2014 1:08 AM	20571
VOLATILE ORGANIC COMPOUNDS		Method: EPA-SW8260B-Rev 2, Dec-96				Analyst: JJ	
Total 1,3-Dichloropropene	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
1,1,1-Trichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
1,1,2,2-Tetrachloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
1,1,2-Trichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
1,1-Dichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
1,1-Dichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
1,2-Dibromo-3-chloropropane	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
1,2-Dibromoethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-4**
Lab ID: 1403047-004 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 11:43 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-SW8260B-Rev 2, Dec-96				Analyst: JJ	
1,2-Dichlorobenzene	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
1,2-Dichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
1,2-Dichloropropane	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
1,4-Dichlorobenzene	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
2-Butanone	<0.0100	0.0100		mg/L	1	03/04/2014 4:47 PM	R44471
2-Chloroethyl vinyl ether	<0.0100	0.0100		mg/L	1	03/04/2014 4:47 PM	R44471
2-Hexanone	<0.0250	0.0250		mg/L	1	03/04/2014 4:47 PM	R44471
4-Methyl-2-pentanone	<0.0250	0.0250		mg/L	1	03/04/2014 4:47 PM	R44471
Acetone	<0.0250	0.0250		mg/L	1	03/04/2014 4:47 PM	R44471
Acrolein	<0.0250	0.0250		mg/L	1	03/04/2014 4:47 PM	R44471
Acrylonitrile	<0.0250	0.0250		mg/L	1	03/04/2014 4:47 PM	R44471
Benzene	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
Bromodichloromethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
Bromoform	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
Bromomethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
Carbon disulfide	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
Carbon tetrachloride	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
Chlorobenzene	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
Chloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
Chloroform	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
Chloromethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
cis-1,2-Dichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
cis-1,3-Dichloropropene	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
Dibromochloromethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
Dichlorodifluoromethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
Ethylbenzene	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
Hexachloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
Isopropylbenzene	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
m,p-Xylene	<0.00200	0.00200		mg/L	1	03/04/2014 4:47 PM	R44471
Methyl tert-butyl ether	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
Methylene chloride	<0.00500	0.00500		mg/L	1	03/04/2014 4:47 PM	R44471
Naphthalene	<0.00200	0.00200		mg/L	1	03/04/2014 4:47 PM	R44471
o-Xylene	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
Total Xylenes	<0.00200	0.00200		mg/L	1	03/04/2014 4:47 PM	R44471
Styrene	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
Tetrachloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
Toluene	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-4**
Lab ID: 1403047-004 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 11:43 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-SW8260B-Rev 2, Dec-96				Analyst: JJ	
trans-1,2-Dichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
trans-1,3-Dichloropropene	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
Trichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
Trichlorofluoromethane	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
Vinyl acetate	<0.0250	0.0250		mg/L	1	03/04/2014 4:47 PM	R44471
Vinyl chloride	<0.00100	0.00100		mg/L	1	03/04/2014 4:47 PM	R44471
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	102	67.9-119		%REC	1	03/04/2014 4:47 PM	R44471
SS: Dibromofluoromethane	116	62.3-122		%REC	1	03/04/2014 4:47 PM	R44471
SS: Toluene-d8	103	68.2-119		%REC	1	03/04/2014 4:47 PM	R44471
VOCS, EXTENDED ANALYTE LIST		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
1,4-Dioxane	<0.100	0.100		mg/L	1	03/04/2014 4:47 PM	R44471
n-Butanol	<0.100	0.100	c	mg/L	1	03/04/2014 4:47 PM	R44471
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,2,4-Trichlorobenzene	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
1,2-Dichlorobenzene	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
1,3-Dichlorobenzene	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
1,4-Dichlorobenzene	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
2,4,5-Trichlorophenol	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
2,4,6-Trichlorophenol	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
2,4-Dichlorophenol	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
2,4-Dimethylphenol	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
2,4-Dinitrophenol	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
2,4-Dinitrotoluene	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
2,6-Dinitrotoluene	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
2-Chloronaphthalene	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
2-Chlorophenol	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
2-Methylnaphthalene	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
2-Nitroaniline	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
2-Nitrophenol	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
3,3-Dichlorobenzidine	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
3-Nitroaniline	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
4,6-Dinitro-2-methylphenol	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
4-Bromophenyl phenyl ether	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-4**
Lab ID: 1403047-004 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 11:43 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
4-Chloro-3-methylphenol	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
4-Chloroaniline	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
4-Chlorophenyl phenyl ether	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
4-Nitroaniline	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
4-Nitrophenol	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
Bis(2-chloroethoxy)methane	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
Bis(2-chloroethyl)ether	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
Bis(2-chloroisopropyl)ether	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
Bis(2-ethylhexyl)phthalate	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
Butyl benzyl phthalate	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
Carbazole	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
Dibenzofuran	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
Diethyl phthalate	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
Dimethyl phthalate	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
Di-n-butyl phthalate	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
Di-n-octyl phthalate	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
Hexachlorobenzene	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
Hexachlorobutadiene	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
Hexachlorocyclopentadiene	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
Hexachloroethane	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
Isophorone	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
m,p-Cresol	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
Nitrobenzene	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
N-Nitroso-di-n-propylamine	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
N-Nitrosodiphenylamine	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
o-Cresol	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
Pentachlorophenol	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
Phenol	<0.010	0.010		mg/L	1	03/10/2014 4:29 PM	20566
Internal Quality Control Compounds							
SS: 2,4,6-Tribromophenol	70.5	36.6-133		%REC	1	03/10/2014 4:29 PM	20566
SS: 2-Fluorobiphenyl	63.7	26.8-113		%REC	1	03/10/2014 4:29 PM	20566
SS: 2-Fluorophenol	49.8	0.1-110		%REC	1	03/10/2014 4:29 PM	20566
SS: 4-Terphenyl-d14	46.4	31.3-152		%REC	1	03/10/2014 4:29 PM	20566
SS: Nitrobenzene-d5	54.5	13.8-115		%REC	1	03/10/2014 4:29 PM	20566
SS: Phenol-d6	33.2	1.14-110		%REC	1	03/10/2014 4:29 PM	20566
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-4**
Lab ID: 1403047-004 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 11:43 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	<0.000100	0.000100		mg/L	1	03/10/2014 1:17 PM	20558
Acenaphthylene	<0.000100	0.000100		mg/L	1	03/10/2014 1:17 PM	20558
Anthracene	<0.000100	0.000100		mg/L	1	03/10/2014 1:17 PM	20558
Benzo(a)anthracene	<0.000100	0.000100		mg/L	1	03/10/2014 1:17 PM	20558
Benzo(a)pyrene	<0.000100	0.000100		mg/L	1	03/10/2014 1:17 PM	20558
Benzo(b)fluoranthene	<0.000100	0.000100		mg/L	1	03/10/2014 1:17 PM	20558
Benzo(g,h,i)perylene	<0.000100	0.000100		mg/L	1	03/10/2014 1:17 PM	20558
Benzo(k)fluoranthene	<0.000100	0.000100		mg/L	1	03/10/2014 1:17 PM	20558
Chrysene	<0.000100	0.000100		mg/L	1	03/10/2014 1:17 PM	20558
Dibenzo(a,h)anthracene	<0.000100	0.000100		mg/L	1	03/10/2014 1:17 PM	20558
Fluoranthene	<0.000100	0.000100		mg/L	1	03/10/2014 1:17 PM	20558
Fluorene	<0.000100	0.000100		mg/L	1	03/10/2014 1:17 PM	20558
Indeno(1,2,3-cd)pyrene	<0.000100	0.000100		mg/L	1	03/10/2014 1:17 PM	20558
Naphthalene	<0.000100	0.000100		mg/L	1	03/10/2014 1:17 PM	20558
Phenanthrene	<0.000100	0.000100		mg/L	1	03/10/2014 1:17 PM	20558
Pyrene	<0.000100	0.000100		mg/L	1	03/10/2014 1:17 PM	20558
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	76.6	26.8-113		%REC	1	03/10/2014 1:17 PM	20558
SS: 4-Terphenyl-d14	93.2	31.3-152		%REC	1	03/10/2014 1:17 PM	20558
SS: Nitrobenzene-d5	77.8	13.8-115		%REC	1	03/10/2014 1:17 PM	20558
CYANIDE, TOTAL		Method: APHA-4500CN CE-Rev 18Ed, 1992				Analyst: LAP	
Cyanide	<0.01	0.01		mg/L	1	03/10/2014 4:11 PM	R44680
MERCURY BY CVAA		Method: EPA-SW7470A-Rev 1, Sep-94				Analyst: jmk	
Mercury	<0.0002	0.0002		mg/L	1	03/07/2014 8:30 AM	20540

Client Sample ID: **MW-5**
Lab ID: 1403047-005 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 11:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: 1403047

Client Sample ID: MW-5
Lab ID: 1403047-005
Date Received: 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 11:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-SW6010B-Rev 2, Dec-96				Analyst: jmk	
Aluminum	0.0291	0.0174	J	mg/L	1	03/05/2014 5:22 PM	20504
Arsenic	<0.0200	0.0200		mg/L	1	03/06/2014 12:02 PM	20504
Barium	0.119	0.00500		mg/L	1	03/05/2014 5:22 PM	20504
Beryllium	<0.00250	0.00250		mg/L	1	03/05/2014 5:22 PM	20504
Cadmium	0.00119	0.00100	J	mg/L	1	03/05/2014 5:22 PM	20504
Calcium	132	0.0151		mg/L	1	03/05/2014 5:22 PM	20504
Chromium	<0.00500	0.00500		mg/L	1	03/05/2014 5:22 PM	20504
Cobalt	<0.00909	0.00909		mg/L	1	03/05/2014 5:22 PM	20504
Copper	0.00324	0.00299	J	mg/L	1	03/05/2014 5:22 PM	20504
Iron	0.0281	0.0117	J	mg/L	1	03/05/2014 5:22 PM	20504
Magnesium	69.5	0.0109		mg/L	1	03/05/2014 5:22 PM	20504
Manganese	0.214	0.00882		mg/L	1	03/05/2014 5:22 PM	20504
Nickel	<0.00400	0.00400		mg/L	1	03/05/2014 5:22 PM	20504
Potassium	8.13	0.0400		mg/L	1	03/06/2014 12:02 PM	20504
Selenium	<0.0250	0.0250		mg/L	1	03/06/2014 12:02 PM	20504
Silver	<0.00200	0.00200		mg/L	1	03/05/2014 5:22 PM	20504
Sodium	279	0.100		mg/L	1	03/06/2014 12:02 PM	20504
Vanadium	<0.00259	0.00259		mg/L	1	03/05/2014 5:22 PM	20504
Zinc	<0.0150	0.0150		mg/L	1	03/05/2014 5:22 PM	20504
METALS BY ICPMS		Method: SW846-SW6020-Rev 0, Sep-94				Analyst: sls	
Antimony	0.00133	0.00060		mg/L	1	03/07/2014 10:46 AM	20502
Lead	0.00047	0.00010		mg/L	1	03/07/2014 10:46 AM	20502
Thallium	<0.00010	0.00010		mg/L	1	03/07/2014 10:46 AM	20502
ORGANOCHLORINE PESTICIDES		Method: EPA-SW8081A-Rev 1, Dec-96				Analyst: mn	
4,4´-DDD	<0.0000500	0.0000500		mg/L	1	03/11/2014 1:27 AM	20570
4,4´-DDE	<0.0000500	0.0000500		mg/L	1	03/11/2014 1:27 AM	20570
4,4´-DDT	<0.0000500	0.0000500		mg/L	1	03/11/2014 1:27 AM	20570
Aldrin	<0.0000250	0.0000250		mg/L	1	03/11/2014 1:27 AM	20570
alpha-BHC	<0.0000250	0.0000250		mg/L	1	03/11/2014 1:27 AM	20570
alpha-Chlordane	<0.0000250	0.0000250		mg/L	1	03/11/2014 1:27 AM	20570
beta-BHC	<0.0000250	0.0000250		mg/L	1	03/12/2014 4:00 PM	20570
Chlordane	<0.000100	0.000100		mg/L	1	03/11/2014 1:27 AM	20570
delta-BHC	<0.0000250	0.0000250		mg/L	1	03/11/2014 1:27 AM	20570

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: 1403047

Client Sample ID: MW-5
Lab ID: 1403047-005
Date Received: 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 11:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
ORGANOCHLORINE PESTICIDES		Method: EPA-SW8081A-Rev 1, Dec-96				Analyst: mn	
Dieldrin	<0.0000500	0.0000500		mg/L	1	03/11/2014 1:27 AM	20570
Endosulfan I	<0.0000250	0.0000250		mg/L	1	03/11/2014 1:27 AM	20570
Endosulfan II	<0.0000500	0.0000500		mg/L	1	03/11/2014 1:27 AM	20570
Endosulfan sulfate	<0.0000500	0.0000500		mg/L	1	03/11/2014 1:27 AM	20570
Endrin	<0.0000500	0.0000500		mg/L	1	03/11/2014 1:27 AM	20570
Endrin aldehyde	<0.0000500	0.0000500		mg/L	1	03/11/2014 1:27 AM	20570
Endrin ketone	<0.0000500	0.0000500		mg/L	1	03/11/2014 1:27 AM	20570
gamma-BHC	<0.0000250	0.0000250		mg/L	1	03/12/2014 4:00 PM	20570
gamma-Chlordane	<0.0000250	0.0000250		mg/L	1	03/11/2014 1:27 AM	20570
Heptachlor	<0.0000250	0.0000250		mg/L	1	03/11/2014 1:27 AM	20570
Heptachlor epoxide	<0.0000250	0.0000250		mg/L	1	03/11/2014 1:27 AM	20570
Methoxychlor	<0.000250	0.000250		mg/L	1	03/11/2014 1:27 AM	20570
Toxaphene	<0.000200	0.000200		mg/L	1	03/11/2014 1:27 AM	20570
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	51.6	31-143		%REC	1	03/11/2014 1:27 AM	20570
PCBS		Method: EPA-SW8082-Rev 0, Dec-96				Analyst: mn	
Aroclor 1016	<0.000100	0.000100		mg/L	1	03/11/2014 1:27 AM	20571
Aroclor 1221	<0.000100	0.000100		mg/L	1	03/11/2014 1:27 AM	20571
Aroclor 1232	<0.000100	0.000100		mg/L	1	03/11/2014 1:27 AM	20571
Aroclor 1242	<0.000100	0.000100		mg/L	1	03/11/2014 1:27 AM	20571
Aroclor 1248	<0.000100	0.000100		mg/L	1	03/11/2014 1:27 AM	20571
Aroclor 1254	<0.000100	0.000100		mg/L	1	03/11/2014 1:27 AM	20571
Aroclor 1260	<0.000100	0.000100		mg/L	1	03/11/2014 1:27 AM	20571
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	60.0	40.4-143		%REC	1	03/11/2014 1:27 AM	20571
VOLATILE ORGANIC COMPOUNDS		Method: EPA-SW8260B-Rev 2, Dec-96				Analyst: JJ	
Total 1,3-Dichloropropene	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
1,1,1-Trichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
1,1,2,2-Tetrachloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
1,1,2-Trichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
1,1-Dichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
1,1-Dichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
1,2-Dibromo-3-chloropropane	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
1,2-Dibromoethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471

Suburban Laboratories, Inc.
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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-5**
Lab ID: 1403047-005 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 11:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-SW8260B-Rev 2, Dec-96				Analyst: JJ	
1,2-Dichlorobenzene	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
1,2-Dichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
1,2-Dichloropropane	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
1,4-Dichlorobenzene	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
2-Butanone	<0.0100	0.0100		mg/L	1	03/04/2014 5:20 PM	R44471
2-Chloroethyl vinyl ether	<0.0100	0.0100		mg/L	1	03/04/2014 5:20 PM	R44471
2-Hexanone	<0.0250	0.0250		mg/L	1	03/04/2014 5:20 PM	R44471
4-Methyl-2-pentanone	<0.0250	0.0250		mg/L	1	03/04/2014 5:20 PM	R44471
Acetone	<0.0250	0.0250		mg/L	1	03/04/2014 5:20 PM	R44471
Acrolein	<0.0250	0.0250		mg/L	1	03/04/2014 5:20 PM	R44471
Acrylonitrile	<0.0250	0.0250		mg/L	1	03/04/2014 5:20 PM	R44471
Benzene	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
Bromodichloromethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
Bromoform	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
Bromomethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
Carbon disulfide	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
Carbon tetrachloride	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
Chlorobenzene	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
Chloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
Chloroform	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
Chloromethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
cis-1,2-Dichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
cis-1,3-Dichloropropene	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
Dibromochloromethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
Dichlorodifluoromethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
Ethylbenzene	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
Hexachloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
Isopropylbenzene	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
m,p-Xylene	<0.00200	0.00200		mg/L	1	03/04/2014 5:20 PM	R44471
Methyl tert-butyl ether	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
Methylene chloride	<0.00500	0.00500		mg/L	1	03/04/2014 5:20 PM	R44471
Naphthalene	<0.00200	0.00200		mg/L	1	03/04/2014 5:20 PM	R44471
o-Xylene	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
Total Xylenes	<0.00200	0.00200		mg/L	1	03/04/2014 5:20 PM	R44471
Styrene	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
Tetrachloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
Toluene	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-5**
Lab ID: 1403047-005 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 11:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-SW8260B-Rev 2, Dec-96				Analyst: JJ	
trans-1,2-Dichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
trans-1,3-Dichloropropene	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
Trichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
Trichlorofluoromethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
Vinyl acetate	<0.0250	0.0250		mg/L	1	03/04/2014 5:20 PM	R44471
Vinyl chloride	<0.00100	0.00100		mg/L	1	03/04/2014 5:20 PM	R44471
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	101	67.9-119		%REC	1	03/04/2014 5:20 PM	R44471
SS: Dibromofluoromethane	114	62.3-122		%REC	1	03/04/2014 5:20 PM	R44471
SS: Toluene-d8	102	68.2-119		%REC	1	03/04/2014 5:20 PM	R44471
VOCS, EXTENDED ANALYTE LIST		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
1,4-Dioxane	<0.100	0.100		mg/L	1	03/04/2014 5:20 PM	R44471
n-Butanol	<0.100	0.100	c	mg/L	1	03/04/2014 5:20 PM	R44471
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,2,4-Trichlorobenzene	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
1,2-Dichlorobenzene	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
1,3-Dichlorobenzene	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
1,4-Dichlorobenzene	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
2,4,5-Trichlorophenol	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
2,4,6-Trichlorophenol	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
2,4-Dichlorophenol	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
2,4-Dimethylphenol	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
2,4-Dinitrophenol	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
2,4-Dinitrotoluene	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
2,6-Dinitrotoluene	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
2-Chloronaphthalene	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
2-Chlorophenol	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
2-Methylnaphthalene	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
2-Nitroaniline	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
2-Nitrophenol	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
3,3-Dichlorobenzidine	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
3-Nitroaniline	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
4,6-Dinitro-2-methylphenol	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
4-Bromophenyl phenyl ether	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-5**
Lab ID: 1403047-005 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 11:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
4-Chloro-3-methylphenol	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
4-Chloroaniline	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
4-Chlorophenyl phenyl ether	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
4-Nitroaniline	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
4-Nitrophenol	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
Bis(2-chloroethoxy)methane	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
Bis(2-chloroethyl)ether	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
Bis(2-chloroisopropyl)ether	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
Bis(2-ethylhexyl)phthalate	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
Butyl benzyl phthalate	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
Carbazole	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
Dibenzofuran	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
Diethyl phthalate	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
Dimethyl phthalate	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
Di-n-butyl phthalate	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
Di-n-octyl phthalate	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
Hexachlorobenzene	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
Hexachlorobutadiene	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
Hexachlorocyclopentadiene	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
Hexachloroethane	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
Isophorone	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
m,p-Cresol	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
Nitrobenzene	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
N-Nitroso-di-n-propylamine	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
N-Nitrosodiphenylamine	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
o-Cresol	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
Pentachlorophenol	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
Phenol	<0.010	0.010		mg/L	1	03/10/2014 5:08 PM	20566
Internal Quality Control Compounds							
SS: 2,4,6-Tribromophenol	72.4	36.6-133		%REC	1	03/10/2014 5:08 PM	20566
SS: 2-Fluorobiphenyl	42.9	26.8-113		%REC	1	03/10/2014 5:08 PM	20566
SS: 2-Fluorophenol	45.6	0.1-110		%REC	1	03/10/2014 5:08 PM	20566
SS: 4-Terphenyl-d14	83.5	31.3-152		%REC	1	03/10/2014 5:08 PM	20566
SS: Nitrobenzene-d5	37.2	13.8-115		%REC	1	03/10/2014 5:08 PM	20566
SS: Phenol-d6	26.7	1.14-110		%REC	1	03/10/2014 5:08 PM	20566
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-5**
Lab ID: 1403047-005 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 11:00 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	0.000337	0.000100		mg/L	1	03/10/2014 1:52 PM	20558
Acenaphthylene	<0.000100	0.000100		mg/L	1	03/10/2014 1:52 PM	20558
Anthracene	<0.000100	0.000100		mg/L	1	03/10/2014 1:52 PM	20558
Benzo(a)anthracene	<0.000100	0.000100		mg/L	1	03/10/2014 1:52 PM	20558
Benzo(a)pyrene	<0.000100	0.000100		mg/L	1	03/10/2014 1:52 PM	20558
Benzo(b)fluoranthene	<0.000100	0.000100		mg/L	1	03/10/2014 1:52 PM	20558
Benzo(g,h,i)perylene	<0.000100	0.000100		mg/L	1	03/10/2014 1:52 PM	20558
Benzo(k)fluoranthene	<0.000100	0.000100		mg/L	1	03/10/2014 1:52 PM	20558
Chrysene	<0.000100	0.000100		mg/L	1	03/10/2014 1:52 PM	20558
Dibenzo(a,h)anthracene	<0.000100	0.000100		mg/L	1	03/10/2014 1:52 PM	20558
Fluoranthene	0.000192	0.000100		mg/L	1	03/10/2014 1:52 PM	20558
Fluorene	<0.000100	0.000100		mg/L	1	03/10/2014 1:52 PM	20558
Indeno(1,2,3-cd)pyrene	<0.000100	0.000100		mg/L	1	03/10/2014 1:52 PM	20558
Naphthalene	<0.000100	0.000100		mg/L	1	03/10/2014 1:52 PM	20558
Phenanthrene	<0.000100	0.000100		mg/L	1	03/10/2014 1:52 PM	20558
Pyrene	0.000154	0.000100		mg/L	1	03/10/2014 1:52 PM	20558
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	81.2	26.8-113		%REC	1	03/10/2014 1:52 PM	20558
SS: 4-Terphenyl-d14	95.9	31.3-152		%REC	1	03/10/2014 1:52 PM	20558
SS: Nitrobenzene-d5	78.6	13.8-115		%REC	1	03/10/2014 1:52 PM	20558
CYANIDE, TOTAL		Method: APHA-4500CN CE-Rev 18Ed, 1992				Analyst: LAP	
Cyanide	<0.01	0.01		mg/L	1	03/10/2014 4:12 PM	R44680
MERCURY BY CVAA		Method: EPA-SW7470A-Rev 1, Sep-94				Analyst: jmk	
Mercury	<0.0002	0.0002		mg/L	1	03/07/2014 8:30 AM	20540

Client Sample ID: **MW-6**
Lab ID: 1403047-006 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 1:25 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-6**
Lab ID: 1403047-006 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 1:25 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-SW6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	0.0767	0.0200		mg/L	1	03/06/2014 12:15 PM	20504
Barium	0.0413	0.00500		mg/L	1	03/05/2014 5:40 PM	20504
Cadmium	0.0123	0.00100		mg/L	1	03/05/2014 5:40 PM	20504
Chromium	<0.00500	0.00500		mg/L	1	03/05/2014 5:40 PM	20504
Lead	<0.00671	0.00671		mg/L	1	03/05/2014 5:40 PM	20504
Selenium	<0.0250	0.0250		mg/L	1	03/06/2014 12:15 PM	20504
Silver	<0.00200	0.00200		mg/L	1	03/05/2014 5:40 PM	20504
VOLATILE ORGANIC COMPOUNDS		Method: EPA-SW8260B-Rev 2, Dec-96				Analyst: JJ	
Total 1,3-Dichloropropene	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
1,1,1-Trichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
1,1,2,2-Tetrachloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
1,1,2-Trichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
1,1-Dichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
1,1-Dichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
1,2-Dibromo-3-chloropropane	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
1,2-Dibromoethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
1,2-Dichlorobenzene	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
1,2-Dichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
1,2-Dichloropropane	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
1,4-Dichlorobenzene	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
2-Butanone	<0.0100	0.0100		mg/L	1	03/04/2014 5:52 PM	R44471
2-Chloroethyl vinyl ether	<0.0100	0.0100		mg/L	1	03/04/2014 5:52 PM	R44471
2-Hexanone	<0.0250	0.0250		mg/L	1	03/04/2014 5:52 PM	R44471
4-Methyl-2-pentanone	<0.0250	0.0250		mg/L	1	03/04/2014 5:52 PM	R44471
Acetone	<0.0250	0.0250		mg/L	1	03/04/2014 5:52 PM	R44471
Acrolein	<0.0250	0.0250		mg/L	1	03/04/2014 5:52 PM	R44471
Acrylonitrile	<0.0250	0.0250		mg/L	1	03/04/2014 5:52 PM	R44471
Benzene	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
Bromodichloromethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
Bromoform	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
Bromomethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
Carbon disulfide	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
Carbon tetrachloride	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
Chlorobenzene	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-6**
Lab ID: 1403047-006 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 1:25 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-SW8260B-Rev 2, Dec-96				Analyst: JJ	
Chloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
Chloroform	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
Chloromethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
cis-1,2-Dichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
cis-1,3-Dichloropropene	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
Dibromochloromethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
Dichlorodifluoromethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
Ethylbenzene	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
Hexachloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
Isopropylbenzene	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
m,p-Xylene	<0.00200	0.00200		mg/L	1	03/04/2014 5:52 PM	R44471
Methyl tert-butyl ether	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
Methylene chloride	<0.00500	0.00500		mg/L	1	03/04/2014 5:52 PM	R44471
Naphthalene	<0.00200	0.00200		mg/L	1	03/04/2014 5:52 PM	R44471
o-Xylene	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
Total Xylenes	<0.00200	0.00200		mg/L	1	03/04/2014 5:52 PM	R44471
Styrene	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
Tetrachloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
Toluene	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
trans-1,2-Dichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
trans-1,3-Dichloropropene	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
Trichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
Trichlorofluoromethane	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
Vinyl acetate	<0.0250	0.0250		mg/L	1	03/04/2014 5:52 PM	R44471
Vinyl chloride	<0.00100	0.00100		mg/L	1	03/04/2014 5:52 PM	R44471
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	105	67.9-119		%REC	1	03/04/2014 5:52 PM	R44471
SS: Dibromofluoromethane	116	62.3-122		%REC	1	03/04/2014 5:52 PM	R44471
SS: Toluene-d8	105	68.2-119		%REC	1	03/04/2014 5:52 PM	R44471
VOCS, EXTENDED ANALYTE LIST		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
1,4-Dioxane	<0.100	0.100		mg/L	1	03/04/2014 5:52 PM	R44471
n-Butanol	<0.100	0.100	c	mg/L	1	03/04/2014 5:52 PM	R44471
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	<0.000100	0.000100		mg/L	1	03/10/2014 2:27 PM	20558

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: 1403047

Client Sample ID: MW-6
Lab ID: 1403047-006 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 1:25 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthylene	<0.000100	0.000100		mg/L	1	03/10/2014 2:27 PM	20558
Anthracene	<0.000100	0.000100		mg/L	1	03/10/2014 2:27 PM	20558
Benzo(a)anthracene	0.000144	0.000100		mg/L	1	03/10/2014 2:27 PM	20558
Benzo(a)pyrene	0.000143	0.000100		mg/L	1	03/10/2014 2:27 PM	20558
Benzo(b)fluoranthene	0.000182	0.000100		mg/L	1	03/10/2014 2:27 PM	20558
Benzo(g,h,i)perylene	<0.000100	0.000100		mg/L	1	03/10/2014 2:27 PM	20558
Benzo(k)fluoranthene	<0.000100	0.000100		mg/L	1	03/10/2014 2:27 PM	20558
Chrysene	0.000148	0.000100		mg/L	1	03/10/2014 2:27 PM	20558
Dibenzo(a,h)anthracene	<0.000100	0.000100		mg/L	1	03/10/2014 2:27 PM	20558
Fluoranthene	0.000364	0.000100		mg/L	1	03/10/2014 2:27 PM	20558
Fluorene	<0.000100	0.000100		mg/L	1	03/10/2014 2:27 PM	20558
Indeno(1,2,3-cd)pyrene	<0.000100	0.000100		mg/L	1	03/10/2014 2:27 PM	20558
Naphthalene	<0.000100	0.000100		mg/L	1	03/10/2014 2:27 PM	20558
Phenanthrene	0.000213	0.000100		mg/L	1	03/10/2014 2:27 PM	20558
Pyrene	0.000305	0.000100		mg/L	1	03/10/2014 2:27 PM	20558
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	78.2	26.8-113		%REC	1	03/10/2014 2:27 PM	20558
SS: 4-Terphenyl-d14	95.4	31.3-152		%REC	1	03/10/2014 2:27 PM	20558
SS: Nitrobenzene-d5	82.3	13.8-115		%REC	1	03/10/2014 2:27 PM	20558
MERCURY BY CVAA		Method: EPA-SW7470A-Rev 1, Sep-94				Analyst: jmk	
Mercury	<0.0002	0.0002		mg/L	1	03/07/2014 8:30 AM	20540

Client Sample ID: MW-7
Lab ID: 1403047-007 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 1:59 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-7**
Lab ID: 1403047-007 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 1:59 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-SW6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	0.0610	0.0200		mg/L	1	03/06/2014 12:35 PM	20504
Barium	0.0601	0.00500		mg/L	1	03/05/2014 6:14 PM	20504
Cadmium	0.00996	0.00100		mg/L	1	03/05/2014 6:14 PM	20504
Chromium	<0.00500	0.00500		mg/L	1	03/05/2014 6:14 PM	20504
Lead	<0.00671	0.00671		mg/L	1	03/05/2014 6:14 PM	20504
Selenium	<0.0250	0.0250		mg/L	1	03/06/2014 12:35 PM	20504
Silver	<0.00200	0.00200		mg/L	1	03/05/2014 6:14 PM	20504
VOLATILE ORGANIC COMPOUNDS		Method: EPA-SW8260B-Rev 2, Dec-96				Analyst: JJ	
Total 1,3-Dichloropropene	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
1,1,1-Trichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
1,1,2,2-Tetrachloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
1,1,2-Trichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
1,1-Dichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
1,1-Dichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
1,2-Dibromo-3-chloropropane	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
1,2-Dibromoethane	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
1,2-Dichlorobenzene	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
1,2-Dichloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
1,2-Dichloropropane	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
1,4-Dichlorobenzene	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
2-Butanone	<0.0100	0.0100		mg/L	1	03/04/2014 6:26 PM	R44471
2-Chloroethyl vinyl ether	<0.0100	0.0100		mg/L	1	03/04/2014 6:26 PM	R44471
2-Hexanone	<0.0250	0.0250		mg/L	1	03/04/2014 6:26 PM	R44471
4-Methyl-2-pentanone	<0.0250	0.0250		mg/L	1	03/04/2014 6:26 PM	R44471
Acetone	<0.0250	0.0250		mg/L	1	03/04/2014 6:26 PM	R44471
Acrolein	<0.0250	0.0250		mg/L	1	03/04/2014 6:26 PM	R44471
Acrylonitrile	<0.0250	0.0250		mg/L	1	03/04/2014 6:26 PM	R44471
Benzene	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
Bromodichloromethane	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
Bromoform	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
Bromomethane	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
Carbon disulfide	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
Carbon tetrachloride	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
Chlorobenzene	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-7**
Lab ID: 1403047-007 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 1:59 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-SW8260B-Rev 2, Dec-96				Analyst: JJ	
Chloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
Chloroform	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
Chloromethane	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
cis-1,2-Dichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
cis-1,3-Dichloropropene	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
Dibromochloromethane	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
Dichlorodifluoromethane	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
Ethylbenzene	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
Hexachloroethane	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
Isopropylbenzene	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
m,p-Xylene	<0.00200	0.00200		mg/L	1	03/04/2014 6:26 PM	R44471
Methyl tert-butyl ether	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
Methylene chloride	<0.00500	0.00500		mg/L	1	03/04/2014 6:26 PM	R44471
Naphthalene	<0.00200	0.00200		mg/L	1	03/04/2014 6:26 PM	R44471
o-Xylene	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
Total Xylenes	<0.00200	0.00200		mg/L	1	03/04/2014 6:26 PM	R44471
Styrene	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
Tetrachloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
Toluene	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
trans-1,2-Dichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
trans-1,3-Dichloropropene	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
Trichloroethene	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
Trichlorofluoromethane	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
Vinyl acetate	<0.0250	0.0250		mg/L	1	03/04/2014 6:26 PM	R44471
Vinyl chloride	<0.00100	0.00100		mg/L	1	03/04/2014 6:26 PM	R44471
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	101	67.9-119		%REC	1	03/04/2014 6:26 PM	R44471
SS: Dibromofluoromethane	115	62.3-122		%REC	1	03/04/2014 6:26 PM	R44471
SS: Toluene-d8	104	68.2-119		%REC	1	03/04/2014 6:26 PM	R44471
VOCS, EXTENDED ANALYTE LIST		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
1,4-Dioxane	<0.100	0.100		mg/L	1	03/04/2014 6:26 PM	R44471
n-Butanol	<0.100	0.100	c	mg/L	1	03/04/2014 6:26 PM	R44471
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	<0.000100	0.000100		mg/L	1	03/10/2014 3:02 PM	20558

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 63rd and Halsted

Report Date: March 13, 2014
Workorder: **1403047**

Client Sample ID: **MW-7**
Lab ID: 1403047-007 **Date Received:** 03/03/2014 3:50 PM

Matrix: GROUNDWATER
Collection Date: 03/03/2014 1:59 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthylene	<0.000100	0.000100		mg/L	1	03/10/2014 3:02 PM	20558
Anthracene	<0.000100	0.000100		mg/L	1	03/10/2014 3:02 PM	20558
Benzo(a)anthracene	<0.000100	0.000100		mg/L	1	03/10/2014 3:02 PM	20558
Benzo(a)pyrene	<0.000100	0.000100		mg/L	1	03/10/2014 3:02 PM	20558
Benzo(b)fluoranthene	<0.000100	0.000100		mg/L	1	03/10/2014 3:02 PM	20558
Benzo(g,h,i)perylene	<0.000100	0.000100		mg/L	1	03/10/2014 3:02 PM	20558
Benzo(k)fluoranthene	<0.000100	0.000100		mg/L	1	03/10/2014 3:02 PM	20558
Chrysene	<0.000100	0.000100		mg/L	1	03/10/2014 3:02 PM	20558
Dibenzo(a,h)anthracene	<0.000100	0.000100		mg/L	1	03/10/2014 3:02 PM	20558
Fluoranthene	<0.000100	0.000100		mg/L	1	03/10/2014 3:02 PM	20558
Fluorene	<0.000100	0.000100		mg/L	1	03/10/2014 3:02 PM	20558
Indeno(1,2,3-cd)pyrene	<0.000100	0.000100		mg/L	1	03/10/2014 3:02 PM	20558
Naphthalene	<0.000100	0.000100		mg/L	1	03/10/2014 3:02 PM	20558
Phenanthrene	<0.000100	0.000100		mg/L	1	03/10/2014 3:02 PM	20558
Pyrene	<0.000100	0.000100		mg/L	1	03/10/2014 3:02 PM	20558
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	67.2	26.8-113		%REC	1	03/10/2014 3:02 PM	20558
SS: 4-Terphenyl-d14	82.4	31.3-152		%REC	1	03/10/2014 3:02 PM	20558
SS: Nitrobenzene-d5	69.3	13.8-115		%REC	1	03/10/2014 3:02 PM	20558
MERCURY BY CVAA		Method: EPA-SW7470A-Rev 1, Sep-94				Analyst: jmk	
Mercury	<0.0002	0.0002		mg/L	1	03/07/2014 8:30 AM	20540

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

PREP DATES REPORT

Client: Pioneer Environmental Services LLC
Project: 63rd and Halsted

Report Date: March 13, 2014
Lab Order: **1403047**

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1403047-001B	3/3/2014 3:00:00 PM	20558	3510SIM_B	AQUEOUS PREP SEP FUNNEL: BNA		3/6/2014
		20566	3510_B	AQUEOUS PREP SEP FUNNEL: BNA		3/7/2014
		20571	3510_PCB	AQUEOUS PREP SEP FUNNEL: PCB		3/7/2014
		20570	3510_P	AQUEOUS PREP SEP FUNNEL: Pest		3/7/2014
1403047-001C		20504	200.2_ICPW_PR	AQUEOUS PREP TOTAL METALS: ICP		3/4/2014
		20502	200.2_ICPMS_W	AQUEOUS PREP TOTAL METALS: ICP		3/4/2014
		20540	HG_WPR	MERCURY PREP for AQUEOUS		3/6/2014
1403047-002B	3/3/2014 12:30:00 P	20558	3510SIM_B	AQUEOUS PREP SEP FUNNEL: BNA		3/6/2014
1403047-002C		20504	200.2_ICPW_PR	AQUEOUS PREP TOTAL METALS: ICP		3/4/2014
		20540	HG_WPR	MERCURY PREP for AQUEOUS		3/6/2014
1403047-003B	3/3/2014 2:28:00 PM	20566	3510_B	AQUEOUS PREP SEP FUNNEL: BNA		3/7/2014
		20558	3510SIM_B	AQUEOUS PREP SEP FUNNEL: BNA		3/6/2014
		20571	3510_PCB	AQUEOUS PREP SEP FUNNEL: PCB		3/7/2014
		20570	3510_P	AQUEOUS PREP SEP FUNNEL: Pest		3/7/2014
1403047-003C		20502	200.2_ICPMS_W	AQUEOUS PREP TOTAL METALS: ICP		3/4/2014
		20504	200.2_ICPW_PR	AQUEOUS PREP TOTAL METALS: ICP		3/4/2014
		20540	HG_WPR	MERCURY PREP for AQUEOUS		3/6/2014
1403047-004B	3/3/2014 11:43:00 A	20566	3510_B	AQUEOUS PREP SEP FUNNEL: BNA		3/7/2014
		20558	3510SIM_B	AQUEOUS PREP SEP FUNNEL: BNA		3/6/2014
		20571	3510_PCB	AQUEOUS PREP SEP FUNNEL: PCB		3/7/2014
		20570	3510_P	AQUEOUS PREP SEP FUNNEL: Pest		3/7/2014
1403047-004C		20502	200.2_ICPMS_W	AQUEOUS PREP TOTAL METALS: ICP		3/4/2014
		20504	200.2_ICPW_PR	AQUEOUS PREP TOTAL METALS: ICP		3/4/2014
		20540	HG_WPR	MERCURY PREP for AQUEOUS		3/6/2014
1403047-005B	3/3/2014 11:00:00 A	20566	3510_B	AQUEOUS PREP SEP FUNNEL: BNA		3/7/2014
		20558	3510SIM_B	AQUEOUS PREP SEP FUNNEL: BNA		3/6/2014
		20571	3510_PCB	AQUEOUS PREP SEP FUNNEL: PCB		3/7/2014
		20570	3510_P	AQUEOUS PREP SEP FUNNEL: Pest		3/7/2014

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

PREP DATES REPORT

Client: Pioneer Environmental Services LLC
Project: 63rd and Halsted

Report Date: March 13, 2014
Lab Order: **1403047**

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1403047-005C	3/3/2014 11:00:00 A	20504	200.2_ICPW_PR	AQUEOUS PREP TOTAL METALS: ICP		3/4/2014
		20502	200.2_ICPMS_W	AQUEOUS PREP TOTAL METALS: ICP		3/4/2014
		20540	HG_WPR	MERCURY PREP for AQUEOUS		3/6/2014
1403047-006B	3/3/2014 1:25:00 PM	20558	3510SIM_B	AQUEOUS PREP SEP FUNNEL: BNA		3/6/2014
1403047-006C		20504	200.2_ICPW_PR	AQUEOUS PREP TOTAL METALS: ICP		3/4/2014
		20540	HG_WPR	MERCURY PREP for AQUEOUS		3/6/2014
1403047-007B	3/3/2014 1:59:00 PM	20558	3510SIM_B	AQUEOUS PREP SEP FUNNEL: BNA		3/6/2014
1403047-007C		20504	200.2_ICPW_PR	AQUEOUS PREP TOTAL METALS: ICP		3/4/2014
		20540	HG_WPR	MERCURY PREP for AQUEOUS		3/6/2014

Qualifiers:

*/x	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
c	Analyte not in SLI scope of accreditation
E	Estimated, detected above quantitation range
G	Refer to case narrative page for specific comments
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limit (QL)
N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit
P	Present
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits

SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Ste 150, Geneva, IL 60134 Tel. 708.544.3260 Fax: 708.544.8587 Toll Free: 800.783.LABS www.suburbanlabs.com

CHAIN OF CUSTODY RECORD

119129

Company Name: PIONEER
Company Address: 700 N SACRAMENTO
City: CHICO State: IL Zip: 60612
Phone: 773 722 9200 Fax: ☐ Fax Report
Email Address: NSTRUBLE@PIONEERHEES.COM Final Report will be emailed
Project ID / Location: 63WD + HALSTEY
Project Manager (Report to): NATALIE
Sample Collector(s) Name: JIM

TURNAROUND TIME REQUESTED
☒ Normal ☐ RUSH* *Additional Rush Charges Approved.
*Date & Time Needed:
Normal TAT is specified on the price quotation or fee schedule. Rush work must be pre-approved and additional charges apply.

Specify Regulatory Program: (Required) ☐ None/Info Only
☐ LUST ☐ SRP ☐ CCDD
☐ 503 Sludge ☐ NPDES ☐ LUST REIMBURSEMENT
☐ Disposal ☐ Other* *Please specify in comment section below.

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

Page 1 of 1
PO No. 12-0646-1002
Shipping Method
Reporting Level (at additional charge) 1 2 3 4
LAB USE ONLY
SL ORDER No. 1403047
Sample containers supplied by customer? ☐ Yes
Temperature of Received Samples 4 °C
Samples received the same day as collection? ☐ Yes

	SAMPLE IDENTIFICATION *Use One Line Per Preservation & Container Type*	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	TCL	VOCs	PNAs	RCRA 8 METALS	R	Condition	Split	LAB #
1	MW-1	3/3/14	300	GW		8	LITER 500 40ml	NONE HCl HNO3	X							001A/B/C/D
2	MW-2	/ /	1230	↓		5	↓	↓		X	X	X				002A/B/C
3	MW-3	/ /	228	↓		8	↓	↓	X							003A/B/C/D
4	MW-4	/ /	1143	↓		8	↓	↓	X							004A/B/C/D
5	MW-5	/ /	1100	↓		8	↓	↓	X							005A/B/C/D
6	MW-6	/ /	125	↓		5	↓	↓		X	X	X				006A/B/C
7	MW-7	/ /	159	↓		5	↓	↓		X	X	X				007A/B/C
8		/ /														
9		/ /														
10		/ /														
11		/ /														
12		/ /														

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) **CONTAINER:** 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) **PRESERVATIVE:** H_2SO_4, HCl, HNO_3, Methanol (MeOH), NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

CONDITION CODES
1. Improper/damaged container/cap
2. Improper preservation
3. Insufficient sample volume
4. Headspace/air bubbles for VOCs
5. Received past holding time
6. Received frozen
7. Label conflicts with COC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
[signature]	3/3/14						
Received By [signature] ☒ Ice present	Time 1550	Received By ☐ Ice present	Time	Received By ☐ Ice present	Time	Received By ☐ Ice present	Time

Submission of samples subject to Terms and Conditions on back. Rev. 07/20/08 White-Original, Pink-Sampler Copy

SUBURBAN LABORATORIES, Inc.

4140 Litt Drive Hillside, Illinois 60162
Tel. (708) 544-3260 Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

January 18, 2013

Workorder: 1301461

Nicole Andrade
Pioneer Environmental Services LLC
700 N. Sacramento Blvd., Suite 101
Chicago, Illinois 60612

TEL: (773) 722-9200
FAX: (773) 722-9201
RE: NWC W. 63RD & HALSTED

Dear Nicole Andrade:

Suburban Laboratories, Inc. received 11 sample(s) on 1/10/2013 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation on, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Melissa Amador

Melissa Amador
Project Manager
708-544-3260 ext. 212
melissa@SuburbanLabs.com

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Case Narrative

Client: Pioneer Environmental Services LLC
Project: NWC W. 63RD & HALSTED
WorkOrder: 1301461
Temperature of samples upon receipt at SLI: 5 C

Date: January 18, 2013
PO #: 12-0646-101
QC Level:
Chain of Custody #: 108154

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- In Laboratory: EPA recommends this analyte be analyzed "immediately" (e.g., tests that should be performed in the field within 15 minutes of collection). Analytes with "immediate" hold times are analyzed as soon as possible upon receipt by the laboratory.
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

Workorder Specific Comments:

Volatiles
Samples 1301461-005A and 010A were analyzed at a dilution to high levels of non-target compounds, resulting in elevated reporting limits.

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301461

Client Sample ID: B2 (4-8)
Lab ID: 1301461-002
Date Received: 01/10/2013 2:40 PM

Matrix: SOIL
Collection Date: 01/09/2013 8:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: ks	
Benzene	<0.0108	0.0108		mg/Kg-dry	35.65	01/14/2013 5:52 PM	R30752
Ethylbenzene	<0.0433	0.0433		mg/Kg-dry	35.65	01/14/2013 5:52 PM	R30752
m,p-Xylene	<0.0867	0.0867		mg/Kg-dry	35.65	01/14/2013 5:52 PM	R30752
o-Xylene	<0.0433	0.0433		mg/Kg-dry	35.65	01/14/2013 5:52 PM	R30752
Total Xylenes	<0.0867	0.0867		mg/Kg-dry	35.65	01/14/2013 5:52 PM	R30752
Toluene	<0.0433	0.0433		mg/Kg-dry	35.65	01/14/2013 5:52 PM	R30752
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	96.5	85.9-111		%REC	35.65	01/14/2013 5:52 PM	R30752
SS: Dibromofluoromethane	105	87.5-113		%REC	35.65	01/14/2013 5:52 PM	R30752
SS: Toluene-d8	93.2	83.3-121		%REC	35.65	01/14/2013 5:52 PM	R30752
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	<0.0475	0.0475		mg/Kg-dry	1	01/16/2013 1:26 PM	13352
Acenaphthylene	<0.0475	0.0475		mg/Kg-dry	1	01/16/2013 1:26 PM	13352
Anthracene	<0.0475	0.0475		mg/Kg-dry	1	01/16/2013 1:26 PM	13352
Benzo(a)anthracene	<0.0475	0.0475		mg/Kg-dry	1	01/16/2013 1:26 PM	13352
Benzo(a)pyrene	<0.0475	0.0475		mg/Kg-dry	1	01/16/2013 1:26 PM	13352
Benzo(b)fluoranthene	<0.0475	0.0475		mg/Kg-dry	1	01/16/2013 1:26 PM	13352
Benzo(g,h,i)perylene	<0.0475	0.0475		mg/Kg-dry	1	01/16/2013 1:26 PM	13352
Benzo(k)fluoranthene	<0.0475	0.0475		mg/Kg-dry	1	01/16/2013 1:26 PM	13352
Chrysene	<0.0475	0.0475		mg/Kg-dry	1	01/16/2013 1:26 PM	13352
Dibenzo(a,h)anthracene	<0.0475	0.0475		mg/Kg-dry	1	01/16/2013 1:26 PM	13352
Fluoranthene	<0.0475	0.0475		mg/Kg-dry	1	01/16/2013 1:26 PM	13352
Fluorene	<0.0475	0.0475		mg/Kg-dry	1	01/16/2013 1:26 PM	13352
Indeno(1,2,3-cd)pyrene	<0.0475	0.0475		mg/Kg-dry	1	01/16/2013 1:26 PM	13352
Naphthalene	<0.0475	0.0475		mg/Kg-dry	1	01/16/2013 1:26 PM	13352
Phenanthrene	<0.0475	0.0475		mg/Kg-dry	1	01/16/2013 1:26 PM	13352
Pyrene	<0.0475	0.0475		mg/Kg-dry	1	01/16/2013 1:26 PM	13352
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	103	72.1-138		%REC	1	01/16/2013 1:26 PM	13352
SS: 4-Terphenyl-d14	106	45.3-152		%REC	1	01/16/2013 1:26 PM	13352
SS: Nitrobenzene-d5	97.3	62.6-144		%REC	1	01/16/2013 1:26 PM	13352
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: rjn	
Percent Moisture	18	1.0		wt%	1	01/11/2013 1:54 PM	R30652

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301461

Client Sample ID: B3 (4-8)
Lab ID: 1301461-003 **Date Received:** 01/10/2013 2:40 PM

Matrix: SOIL
Collection Date: 01/09/2013 9:17 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Lead	7.41	0.588		mg/Kg-dry	1	01/14/2013 4:23 PM	13303
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: ks	
Benzene	<0.0114	0.0114		mg/Kg-dry	38.15	01/14/2013 6:25 PM	R30752
Ethylbenzene	<0.0454	0.0454		mg/Kg-dry	38.15	01/14/2013 6:25 PM	R30752
m,p-Xylene	<0.0909	0.0909		mg/Kg-dry	38.15	01/14/2013 6:25 PM	R30752
o-Xylene	<0.0454	0.0454		mg/Kg-dry	38.15	01/14/2013 6:25 PM	R30752
Total Xylenes	<0.0909	0.0909		mg/Kg-dry	38.15	01/14/2013 6:25 PM	R30752
Toluene	<0.0454	0.0454		mg/Kg-dry	38.15	01/14/2013 6:25 PM	R30752
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	94.6	85.9-111		%REC	38.15	01/14/2013 6:25 PM	R30752
SS: Dibromofluoromethane	104	87.5-113		%REC	38.15	01/14/2013 6:25 PM	R30752
SS: Toluene-d8	95.8	83.3-121		%REC	38.15	01/14/2013 6:25 PM	R30752
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: kac	
ICP Specific Percent Moisture	17.17			wt%	1	01/10/2013 5:10 PM	R30630
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	8.56			pH Units	1	01/11/2013 10:21 AM	R30644
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: rjn	
Percent Moisture	16	1.0		wt%	1	01/11/2013 1:54 PM	R30652

Client Sample ID: B4 (4-8)
Lab ID: 1301461-004 **Date Received:** 01/10/2013 2:40 PM

Matrix: SOIL
Collection Date: 01/09/2013 9:50 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301461

Client Sample ID: B4 (4-8)
Lab ID: 1301461-004
Date Received: 01/10/2013 2:40 PM

Matrix: SOIL
Collection Date: 01/09/2013 9:50 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: ks	
Benzene	0.0324	0.0123		mg/Kg-dry	39.64	01/14/2013 6:59 PM	R30752
Ethylbenzene	<0.0491	0.0491		mg/Kg-dry	39.64	01/14/2013 6:59 PM	R30752
m,p-Xylene	<0.0982	0.0982		mg/Kg-dry	39.64	01/14/2013 6:59 PM	R30752
o-Xylene	<0.0491	0.0491		mg/Kg-dry	39.64	01/14/2013 6:59 PM	R30752
Total Xylenes	<0.0982	0.0982		mg/Kg-dry	39.64	01/14/2013 6:59 PM	R30752
Toluene	<0.0491	0.0491		mg/Kg-dry	39.64	01/14/2013 6:59 PM	R30752
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	95.8	85.9-111		%REC	39.64	01/14/2013 6:59 PM	R30752
SS: Dibromofluoromethane	102	87.5-113		%REC	39.64	01/14/2013 6:59 PM	R30752
SS: Toluene-d8	96.7	83.3-121		%REC	39.64	01/14/2013 6:59 PM	R30752
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	<0.0484	0.0484		mg/Kg-dry	1	01/16/2013 3:17 PM	13352
Acenaphthylene	<0.0484	0.0484		mg/Kg-dry	1	01/16/2013 3:17 PM	13352
Anthracene	0.0989	0.0484		mg/Kg-dry	1	01/16/2013 3:17 PM	13352
Benzo(a)anthracene	0.511	0.0484		mg/Kg-dry	1	01/16/2013 3:17 PM	13352
Benzo(a)pyrene	0.708	0.0484		mg/Kg-dry	1	01/16/2013 3:17 PM	13352
Benzo(b)fluoranthene	0.809	0.0484		mg/Kg-dry	1	01/16/2013 3:17 PM	13352
Benzo(g,h,i)perylene	0.471	0.0484		mg/Kg-dry	1	01/16/2013 3:17 PM	13352
Benzo(k)fluoranthene	0.263	0.0484		mg/Kg-dry	1	01/16/2013 3:17 PM	13352
Chrysene	0.604	0.0484		mg/Kg-dry	1	01/16/2013 3:17 PM	13352
Dibenzo(a,h)anthracene	0.0850	0.0484		mg/Kg-dry	1	01/16/2013 3:17 PM	13352
Fluoranthene	0.878	0.0484		mg/Kg-dry	1	01/16/2013 3:17 PM	13352
Fluorene	<0.0484	0.0484		mg/Kg-dry	1	01/16/2013 3:17 PM	13352
Indeno(1,2,3-cd)pyrene	0.356	0.0484		mg/Kg-dry	1	01/16/2013 3:17 PM	13352
Naphthalene	<0.0484	0.0484		mg/Kg-dry	1	01/16/2013 3:17 PM	13352
Phenanthrene	0.360	0.0484		mg/Kg-dry	1	01/16/2013 3:17 PM	13352
Pyrene	1.23	0.0484		mg/Kg-dry	1	01/16/2013 3:17 PM	13352
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	104	72.1-138		%REC	1	01/16/2013 3:17 PM	13352
SS: 4-Terphenyl-d14	99.6	45.3-152		%REC	1	01/16/2013 3:17 PM	13352
SS: Nitrobenzene-d5	94.5	62.6-144		%REC	1	01/16/2013 3:17 PM	13352
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: rjn	
Percent Moisture	19	1.0		wt%	1	01/11/2013 1:54 PM	R30652

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4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301461

Client Sample ID: B5 (4-8)
Lab ID: 1301461-005
Date Received: 01/10/2013 2:40 PM

Matrix: SOIL
Collection Date: 01/09/2013 10:15 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	<1.14	1.14		mg/Kg-dry	1	01/14/2013 4:32 PM	13303
Barium	7.43	0.124		mg/Kg-dry	1	01/14/2013 4:32 PM	13303
Cadmium	0.894	0.0743		mg/Kg-dry	1	01/14/2013 4:32 PM	13303
Chromium	4.96	0.0594		mg/Kg-dry	1	01/14/2013 4:32 PM	13303
Lead	5.88	0.594		mg/Kg-dry	1	01/14/2013 4:32 PM	13303
Selenium	<1.29	1.29		mg/Kg-dry	1	01/14/2013 4:32 PM	13303
Silver	<0.0594	0.0594		mg/Kg-dry	1	01/14/2013 4:32 PM	13303
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: ks	
1,1,1-Trichloroethane	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
1,1,2,2-Tetrachloroethane	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
1,1,2-Trichloroethane	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
1,1-Dichloroethane	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
1,1-Dichloroethene	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
1,2-Dichloroethane	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
1,2-Dichloropropane	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
2-Butanone	<0.434	0.434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
2-Hexanone	<1.08	1.08		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
4-Methyl-2-pentanone	<1.08	1.08		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
Acetone	<1.08	1.08		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
Benzene	<0.0108	0.0108		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
Bromodichloromethane	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
Bromoform	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
Bromomethane	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
Carbon disulfide	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
Carbon tetrachloride	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
Chlorobenzene	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
Chloroethane	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
Chloroform	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
Chloromethane	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
cis-1,2-Dichloroethene	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
cis-1,3-Dichloropropene	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
Dibromochloromethane	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
Ethylbenzene	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
m,p-Xylene	<0.0868	0.0868		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301461

Client Sample ID: B5 (4-8)
Lab ID: 1301461-005
Date Received: 01/10/2013 2:40 PM

Matrix: SOIL
Collection Date: 01/09/2013 10:15 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: ks	
Methyl tert-butyl ether	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
Methylene chloride	<0.217	0.217		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
o-Xylene	0.0438	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
Total Xylenes	<0.0868	0.0868		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
Styrene	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
Tetrachloroethene	<0.0868	0.0868		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
Toluene	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
trans-1,2-Dichloroethene	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
trans-1,3-Dichloropropene	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
Trichloroethene	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
Vinyl chloride	<0.0434	0.0434		mg/Kg-dry	34.45	01/14/2013 9:28 PM	R30714
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	110	85.9-111		%REC	34.45	01/14/2013 9:28 PM	R30714
SS: Dibromofluoromethane	113	87.5-113	S	%REC	34.45	01/14/2013 9:28 PM	R30714
SS: Toluene-d8	109	83.3-121		%REC	34.45	01/14/2013 9:28 PM	R30714
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	2.65	0.439		mg/Kg-dry	10	01/16/2013 3:54 PM	13352
Acenaphthylene	1.01	0.439		mg/Kg-dry	10	01/16/2013 3:54 PM	13352
Anthracene	12.2	0.439		mg/Kg-dry	10	01/16/2013 3:54 PM	13352
Benzo(a)anthracene	3.58	0.439		mg/Kg-dry	10	01/16/2013 3:54 PM	13352
Benzo(a)pyrene	1.69	0.439		mg/Kg-dry	10	01/16/2013 3:54 PM	13352
Benzo(b)fluoranthene	0.706	0.439		mg/Kg-dry	10	01/16/2013 3:54 PM	13352
Benzo(g,h,i)perylene	0.820	0.439		mg/Kg-dry	10	01/16/2013 3:54 PM	13352
Benzo(k)fluoranthene	<0.439	0.439		mg/Kg-dry	10	01/16/2013 3:54 PM	13352
Chrysene	4.78	0.439		mg/Kg-dry	10	01/16/2013 3:54 PM	13352
Dibenzo(a,h)anthracene	<0.439	0.439		mg/Kg-dry	10	01/16/2013 3:54 PM	13352
Fluoranthene	3.79	0.439		mg/Kg-dry	10	01/16/2013 3:54 PM	13352
Fluorene	9.40	0.439		mg/Kg-dry	10	01/16/2013 3:54 PM	13352
Indeno(1,2,3-cd)pyrene	<0.439	0.439		mg/Kg-dry	10	01/16/2013 3:54 PM	13352
Naphthalene	<0.439	0.439		mg/Kg-dry	10	01/16/2013 3:54 PM	13352
Phenanthrene	27.5	0.439		mg/Kg-dry	10	01/16/2013 3:54 PM	13352
Pyrene	21.2	0.439		mg/Kg-dry	10	01/16/2013 3:54 PM	13352
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	95.5	72.1-138		%REC	10	01/16/2013 3:54 PM	13352
SS: 4-Terphenyl-d14	86.5	45.3-152		%REC	10	01/16/2013 3:54 PM	13352

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: **1301461**

Client Sample ID: **B5 (4-8)**
Lab ID: 1301461-005 **Date Received:** 01/10/2013 2:40 PM

Matrix: SOIL
Collection Date: 01/09/2013 10:15 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
SS: Nitrobenzene-d5	67.1	62.6-144		%REC	10	01/16/2013 3:54 PM	13352
MERCURY BY CVAA		Method: EPA-7471A-Rev 1, Sep-94				Analyst: dc	
Mercury	<0.0239	0.0239		mg/Kg-dry	1	01/15/2013 2:15 PM	13320
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: kac	
ICP Specific Percent Moisture	16.21			wt%	1	01/10/2013 5:10 PM	R30630
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	8.38			pH Units	1	01/11/2013 10:27 AM	R30644
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: rjn	
Percent Moisture	21	1.0		wt%	1	01/11/2013 1:54 PM	R30652
TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		Method: EPA-418.1-Rev 1978				Analyst: mn	
TRPH	4,040	4,040	c	mg/Kg-dry	100	01/17/2013 12:00 AM	13371

Client Sample ID: **B6 (0-4)**
Lab ID: 1301461-006 **Date Received:** 01/10/2013 2:40 PM

Matrix: SOIL
Collection Date: 01/09/2013 10:55 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301461

Client Sample ID: B6 (0-4)
Lab ID: 1301461-006
Date Received: 01/10/2013 2:40 PM

Matrix: SOIL
Collection Date: 01/09/2013 10:55 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	<1.14	1.14		mg/Kg-dry	1	01/14/2013 4:42 PM	13303
Barium	172	0.124		mg/Kg-dry	1	01/14/2013 4:42 PM	13303
Cadmium	2.91	0.0743		mg/Kg-dry	1	01/14/2013 4:42 PM	13303
Chromium	43.5	0.0594		mg/Kg-dry	1	01/14/2013 4:42 PM	13303
Lead	101	0.594		mg/Kg-dry	1	01/14/2013 4:42 PM	13303
Selenium	<1.29	1.29		mg/Kg-dry	1	01/14/2013 4:42 PM	13303
Silver	<0.0594	0.0594		mg/Kg-dry	1	01/14/2013 4:42 PM	13303
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: ls	
1,1,1-Trichloroethane	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
1,1,2,2-Tetrachloroethane	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
1,1,2-Trichloroethane	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
1,1-Dichloroethane	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
1,1-Dichloroethene	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
1,2-Dichloroethane	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
1,2-Dichloropropane	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
2-Butanone	<0.0125	0.0125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
2-Hexanone	<0.0312	0.0312		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
4-Methyl-2-pentanone	<0.0312	0.0312		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
Acetone	<0.0312	0.0312		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
Benzene	<0.000312	0.000312		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
Bromodichloromethane	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
Bromoform	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
Bromomethane	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
Carbon disulfide	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
Carbon tetrachloride	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
Chlorobenzene	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
Chloroethane	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
Chloroform	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
Chloromethane	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
cis-1,2-Dichloroethene	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
cis-1,3-Dichloropropene	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
Dibromochloromethane	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
Ethylbenzene	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
m,p-Xylene	<0.00250	0.00250		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301461

Client Sample ID: B6 (0-4)
Lab ID: 1301461-006
Date Received: 01/10/2013 2:40 PM

Matrix: SOIL
Collection Date: 01/09/2013 10:55 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: ls	
Methyl tert-butyl ether	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
Methylene chloride	<0.00625	0.00625		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
o-Xylene	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
Total Xylenes	<0.00250	0.00250		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
Styrene	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
Tetrachloroethene	<0.00250	0.00250		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
Toluene	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
trans-1,2-Dichloroethene	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
trans-1,3-Dichloropropene	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
Trichloroethene	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
Vinyl chloride	<0.00125	0.00125		mg/Kg-dry	1.08	01/11/2013 2:36 PM	R30701
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	88.8	61.55-121		%REC	1.08	01/11/2013 2:36 PM	R30701
SS: Dibromofluoromethane	121	71.4-147		%REC	1.08	01/11/2013 2:36 PM	R30701
SS: Toluene-d8	93.6	61-135		%REC	1.08	01/11/2013 2:36 PM	R30701
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	1.70	0.0419		mg/Kg-dry	1	01/16/2013 4:31 PM	13352
Acenaphthylene	1.10	0.0419		mg/Kg-dry	1	01/16/2013 4:31 PM	13352
Anthracene	4.05	0.0419		mg/Kg-dry	1	01/16/2013 4:31 PM	13352
Benzo(a)anthracene	6.81	0.419		mg/Kg-dry	10	01/16/2013 6:57 PM	13352
Benzo(a)pyrene	7.26	0.419		mg/Kg-dry	10	01/16/2013 6:57 PM	13352
Benzo(b)fluoranthene	8.47	0.419		mg/Kg-dry	10	01/16/2013 6:57 PM	13352
Benzo(g,h,i)perylene	3.32	0.0419		mg/Kg-dry	1	01/16/2013 4:31 PM	13352
Benzo(k)fluoranthene	3.19	0.0419		mg/Kg-dry	1	01/16/2013 4:31 PM	13352
Chrysene	6.89	0.419		mg/Kg-dry	10	01/16/2013 6:57 PM	13352
Dibenzo(a,h)anthracene	1.03	0.0419		mg/Kg-dry	1	01/16/2013 4:31 PM	13352
Fluoranthene	13.8	0.419		mg/Kg-dry	10	01/16/2013 6:57 PM	13352
Fluorene	1.83	0.0419		mg/Kg-dry	1	01/16/2013 4:31 PM	13352
Indeno(1,2,3-cd)pyrene	3.49	0.0419		mg/Kg-dry	1	01/16/2013 4:31 PM	13352
Naphthalene	1.06	0.0419		mg/Kg-dry	1	01/16/2013 4:31 PM	13352
Phenanthrene	11.2	0.419		mg/Kg-dry	10	01/16/2013 6:57 PM	13352
Pyrene	11.7	0.419		mg/Kg-dry	10	01/16/2013 6:57 PM	13352
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	103	72.1-138		%REC	1	01/16/2013 4:31 PM	13352
SS: 4-Terphenyl-d14	93.9	45.3-152		%REC	1	01/16/2013 4:31 PM	13352

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301461

Client Sample ID: B6 (0-4)
Lab ID: 1301461-006 **Date Received:** 01/10/2013 2:40 PM

Matrix: SOIL
Collection Date: 01/09/2013 10:55 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
SS: Nitrobenzene-d5	98.9	62.6-144		%REC	1	01/16/2013 4:31 PM	13352
MERCURY BY CVAA		Method: EPA-7471A-Rev 1, Sep-94				Analyst: dc	
Mercury	0.211	0.0231		mg/Kg-dry	1	01/15/2013 2:15 PM	13320
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: kac	
ICP Specific Percent Moisture	12.00			wt%	1	01/10/2013 5:10 PM	R30630
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	8.10			pH Units	1	01/11/2013 10:29 AM	R30644
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: rjn	
Percent Moisture	14	1.0		wt%	1	01/11/2013 1:54 PM	R30652

Client Sample ID: B7 (4-8)
Lab ID: 1301461-007 **Date Received:** 01/10/2013 2:40 PM

Matrix: SOIL
Collection Date: 01/09/2013 11:37 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301461

Client Sample ID: B7 (4-8)
Lab ID: 1301461-007 **Date Received:** 01/10/2013 2:40 PM

Matrix: SOIL
Collection Date: 01/09/2013 11:37 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Lead	6.28	0.588		mg/Kg-dry	1	01/14/2013 4:50 PM	13303
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: ks	
Benzene	<0.0112	0.0112		mg/Kg-dry	37.3	01/14/2013 7:32 PM	R30752
Ethylbenzene	<0.0447	0.0447		mg/Kg-dry	37.3	01/14/2013 7:32 PM	R30752
m,p-Xylene	<0.0893	0.0893		mg/Kg-dry	37.3	01/14/2013 7:32 PM	R30752
o-Xylene	<0.0447	0.0447		mg/Kg-dry	37.3	01/14/2013 7:32 PM	R30752
Total Xylenes	<0.0893	0.0893		mg/Kg-dry	37.3	01/14/2013 7:32 PM	R30752
Toluene	<0.0447	0.0447		mg/Kg-dry	37.3	01/14/2013 7:32 PM	R30752
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	93.9	85.9-111		%REC	37.3	01/14/2013 7:32 PM	R30752
SS: Dibromofluoromethane	105	87.5-113		%REC	37.3	01/14/2013 7:32 PM	R30752
SS: Toluene-d8	96.0	83.3-121		%REC	37.3	01/14/2013 7:32 PM	R30752
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: kac	
ICP Specific Percent Moisture	17.04			wt%	1	01/10/2013 5:10 PM	R30630
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	8.28			pH Units	1	01/11/2013 10:31 AM	R30644
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: rjn	
Percent Moisture	16	1.0		wt%	1	01/11/2013 1:54 PM	R30652

Client Sample ID: B8 (4-8)
Lab ID: 1301461-008 **Date Received:** 01/10/2013 2:40 PM

Matrix: SOIL
Collection Date: 01/09/2013 12:05 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301461

Client Sample ID: B8 (4-8)
Lab ID: 1301461-008 **Date Received:** 01/10/2013 2:40 PM

Matrix: SOIL
Collection Date: 01/09/2013 12:05 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Lead	7.58	0.588		mg/Kg-dry	1	01/14/2013 5:54 PM	13303
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: ks	
Benzene	<0.00970	0.00970		mg/Kg-dry	31.65	01/14/2013 8:06 PM	R30752
Ethylbenzene	<0.0388	0.0388		mg/Kg-dry	31.65	01/14/2013 8:06 PM	R30752
m,p-Xylene	<0.0776	0.0776		mg/Kg-dry	31.65	01/14/2013 8:06 PM	R30752
o-Xylene	<0.0388	0.0388		mg/Kg-dry	31.65	01/14/2013 8:06 PM	R30752
Total Xylenes	<0.0776	0.0776		mg/Kg-dry	31.65	01/14/2013 8:06 PM	R30752
Toluene	<0.0388	0.0388		mg/Kg-dry	31.65	01/14/2013 8:06 PM	R30752
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	93.0	85.9-111		%REC	31.65	01/14/2013 8:06 PM	R30752
SS: Dibromofluoromethane	103	87.5-113		%REC	31.65	01/14/2013 8:06 PM	R30752
SS: Toluene-d8	96.4	83.3-121		%REC	31.65	01/14/2013 8:06 PM	R30752
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: kac	
ICP Specific Percent Moisture	18.06			wt%	1	01/10/2013 5:10 PM	R30630
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: anb	
pH	8.56			pH Units	1	01/11/2013 10:35 AM	R30644
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: rjn	
Percent Moisture	18	1.0		wt%	1	01/11/2013 1:54 PM	R30652

Client Sample ID: B9 (0-3)
Lab ID: 1301461-009 **Date Received:** 01/10/2013 2:40 PM

Matrix: SOIL
Collection Date: 01/09/2013 1:09 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301461

Client Sample ID: B9 (0-3)
Lab ID: 1301461-009 **Date Received:** 01/10/2013 2:40 PM

Matrix: SOIL
Collection Date: 01/09/2013 1:09 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: ks	
Benzene	<0.0114	0.0114		mg/Kg-dry	40.03	01/14/2013 8:39 PM	R30752
Ethylbenzene	<0.0456	0.0456		mg/Kg-dry	40.03	01/14/2013 8:39 PM	R30752
m,p-Xylene	<0.0912	0.0912		mg/Kg-dry	40.03	01/14/2013 8:39 PM	R30752
o-Xylene	<0.0456	0.0456		mg/Kg-dry	40.03	01/14/2013 8:39 PM	R30752
Total Xylenes	<0.0912	0.0912		mg/Kg-dry	40.03	01/14/2013 8:39 PM	R30752
Toluene	<0.0456	0.0456		mg/Kg-dry	40.03	01/14/2013 8:39 PM	R30752
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	95.3	85.9-111		%REC	40.03	01/14/2013 8:39 PM	R30752
SS: Dibromofluoromethane	103	87.5-113		%REC	40.03	01/14/2013 8:39 PM	R30752
SS: Toluene-d8	93.7	83.3-121		%REC	40.03	01/14/2013 8:39 PM	R30752
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	0.143	0.0449		mg/Kg-dry	1	01/16/2013 5:08 PM	13352
Acenaphthylene	1.47	0.0449		mg/Kg-dry	1	01/16/2013 5:08 PM	13352
Anthracene	1.31	0.0449		mg/Kg-dry	1	01/16/2013 5:08 PM	13352
Benzo(a)anthracene	4.34	0.449		mg/Kg-dry	10	01/16/2013 7:33 PM	13352
Benzo(a)pyrene	5.23	0.449		mg/Kg-dry	10	01/16/2013 7:33 PM	13352
Benzo(b)fluoranthene	5.98	0.449		mg/Kg-dry	10	01/16/2013 7:33 PM	13352
Benzo(g,h,i)perylene	1.45	0.0449		mg/Kg-dry	1	01/16/2013 5:08 PM	13352
Benzo(k)fluoranthene	2.41	0.0449		mg/Kg-dry	1	01/16/2013 5:08 PM	13352
Chrysene	4.76	0.449		mg/Kg-dry	10	01/16/2013 7:33 PM	13352
Dibenzo(a,h)anthracene	0.583	0.0449		mg/Kg-dry	1	01/16/2013 5:08 PM	13352
Fluoranthene	7.02	0.449		mg/Kg-dry	10	01/16/2013 7:33 PM	13352
Fluorene	0.390	0.0449		mg/Kg-dry	1	01/16/2013 5:08 PM	13352
Indeno(1,2,3-cd)pyrene	1.69	0.0449		mg/Kg-dry	1	01/16/2013 5:08 PM	13352
Naphthalene	0.486	0.0449		mg/Kg-dry	1	01/16/2013 5:08 PM	13352
Phenanthrene	3.03	0.0449		mg/Kg-dry	1	01/16/2013 5:08 PM	13352
Pyrene	6.02	0.449		mg/Kg-dry	10	01/16/2013 7:33 PM	13352
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	105	72.1-138		%REC	1	01/16/2013 5:08 PM	13352
SS: 4-Terphenyl-d14	96.2	45.3-152		%REC	1	01/16/2013 5:08 PM	13352
SS: Nitrobenzene-d5	101	62.6-144		%REC	1	01/16/2013 5:08 PM	13352
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: rjn	
Percent Moisture	12	1.0		wt%	1	01/11/2013 1:54 PM	R30652

Suburban Laboratories, Inc.
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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301461

Client Sample ID: B10 (4-8)
Lab ID: 1301461-010
Date Received: 01/10/2013 2:40 PM

Matrix: SOIL
Collection Date: 01/09/2013 1:45 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: ks	
Benzene	<0.0975	0.0975		mg/Kg-dry	306.7	01/14/2013 9:13 PM	R30752
Ethylbenzene	<0.390	0.390		mg/Kg-dry	306.7	01/14/2013 9:13 PM	R30752
m,p-Xylene	<0.780	0.780		mg/Kg-dry	306.7	01/14/2013 9:13 PM	R30752
o-Xylene	<0.390	0.390		mg/Kg-dry	306.7	01/14/2013 9:13 PM	R30752
Total Xylenes	<0.780	0.780		mg/Kg-dry	306.7	01/14/2013 9:13 PM	R30752
Toluene	<0.390	0.390		mg/Kg-dry	306.7	01/14/2013 9:13 PM	R30752
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	94.8	85.9-111		%REC	306.7	01/14/2013 9:13 PM	R30752
SS: Dibromofluoromethane	105	87.5-113		%REC	306.7	01/14/2013 9:13 PM	R30752
SS: Toluene-d8	96.4	83.3-121		%REC	306.7	01/14/2013 9:13 PM	R30752
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	1.30	0.0466		mg/Kg-dry	1	01/16/2013 5:45 PM	13352
Acenaphthylene	0.594	0.0466		mg/Kg-dry	1	01/16/2013 5:45 PM	13352
Anthracene	0.452	0.0466		mg/Kg-dry	1	01/16/2013 5:45 PM	13352
Benzo(a)anthracene	<0.0466	0.0466		mg/Kg-dry	1	01/16/2013 5:45 PM	13352
Benzo(a)pyrene	<0.0466	0.0466		mg/Kg-dry	1	01/16/2013 5:45 PM	13352
Benzo(b)fluoranthene	<0.0466	0.0466		mg/Kg-dry	1	01/16/2013 5:45 PM	13352
Benzo(g,h,i)perylene	<0.0466	0.0466		mg/Kg-dry	1	01/16/2013 5:45 PM	13352
Benzo(k)fluoranthene	<0.0466	0.0466		mg/Kg-dry	1	01/16/2013 5:45 PM	13352
Chrysene	<0.0466	0.0466		mg/Kg-dry	1	01/16/2013 5:45 PM	13352
Dibenzo(a,h)anthracene	<0.0466	0.0466		mg/Kg-dry	1	01/16/2013 5:45 PM	13352
Fluoranthene	0.0658	0.0466		mg/Kg-dry	1	01/16/2013 5:45 PM	13352
Fluorene	3.74	0.0466		mg/Kg-dry	1	01/16/2013 5:45 PM	13352
Indeno(1,2,3-cd)pyrene	<0.0466	0.0466		mg/Kg-dry	1	01/16/2013 5:45 PM	13352
Naphthalene	0.316	0.0466		mg/Kg-dry	1	01/16/2013 5:45 PM	13352
Phenanthrene	5.68	0.466		mg/Kg-dry	10	01/17/2013 9:59 AM	13352
Pyrene	0.137	0.0466		mg/Kg-dry	1	01/16/2013 5:45 PM	13352
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	89.3	72.1-138		%REC	1	01/16/2013 5:45 PM	13352
SS: 4-Terphenyl-d14	98.5	45.3-152		%REC	1	01/16/2013 5:45 PM	13352
SS: Nitrobenzene-d5	128	62.6-144		%REC	1	01/16/2013 5:45 PM	13352
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: rjn	
Percent Moisture	21	1.0		wt%	1	01/11/2013 1:54 PM	R30652

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: **1301461**

Client Sample ID: **B10 (4-8)**
Lab ID: 1301461-010 **Date Received:** 01/10/2013 2:40 PM

Matrix: SOIL
Collection Date: 01/09/2013 1:45 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		Method: EPA-418.1-Rev 1978				Analyst: mn	
TRPH	4,510	4,100	c	mg/Kg-dry	100	01/17/2013 12:00 AM	13371

Client Sample ID: **B11 (0-3)**
Lab ID: 1301461-011 **Date Received:** 01/10/2013 2:40 PM

Matrix: SOIL
Collection Date: 01/09/2013 2:33 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301461

Client Sample ID: B11 (0-3)
Lab ID: 1301461-011
Date Received: 01/10/2013 2:40 PM
Matrix: SOIL
Collection Date: 01/09/2013 2:33 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: ks	
Benzene	<0.0149	0.0149		mg/Kg-dry	49.32	01/14/2013 9:47 PM	R30752
Ethylbenzene	<0.0596	0.0596		mg/Kg-dry	49.32	01/14/2013 9:47 PM	R30752
m,p-Xylene	<0.119	0.119		mg/Kg-dry	49.32	01/14/2013 9:47 PM	R30752
o-Xylene	<0.0596	0.0596		mg/Kg-dry	49.32	01/14/2013 9:47 PM	R30752
Total Xylenes	<0.119	0.119		mg/Kg-dry	49.32	01/14/2013 9:47 PM	R30752
Toluene	<0.0596	0.0596		mg/Kg-dry	49.32	01/14/2013 9:47 PM	R30752
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	95.6	85.9-111		%REC	49.32	01/14/2013 9:47 PM	R30752
SS: Dibromofluoromethane	102	87.5-113		%REC	49.32	01/14/2013 9:47 PM	R30752
SS: Toluene-d8	96.5	83.3-121		%REC	49.32	01/14/2013 9:47 PM	R30752
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	<0.0481	0.0481		mg/Kg-dry	1	01/16/2013 6:21 PM	13352
Acenaphthylene	<0.0481	0.0481		mg/Kg-dry	1	01/16/2013 6:21 PM	13352
Anthracene	<0.0481	0.0481		mg/Kg-dry	1	01/16/2013 6:21 PM	13352
Benzo(a)anthracene	0.171	0.0481		mg/Kg-dry	1	01/16/2013 6:21 PM	13352
Benzo(a)pyrene	0.170	0.0481		mg/Kg-dry	1	01/16/2013 6:21 PM	13352
Benzo(b)fluoranthene	0.223	0.0481		mg/Kg-dry	1	01/16/2013 6:21 PM	13352
Benzo(g,h,i)perylene	0.0496	0.0481		mg/Kg-dry	1	01/16/2013 6:21 PM	13352
Benzo(k)fluoranthene	0.0905	0.0481		mg/Kg-dry	1	01/16/2013 6:21 PM	13352
Chrysene	0.182	0.0481		mg/Kg-dry	1	01/16/2013 6:21 PM	13352
Dibenzo(a,h)anthracene	<0.0481	0.0481		mg/Kg-dry	1	01/16/2013 6:21 PM	13352
Fluoranthene	0.338	0.0481		mg/Kg-dry	1	01/16/2013 6:21 PM	13352
Fluorene	<0.0481	0.0481		mg/Kg-dry	1	01/16/2013 6:21 PM	13352
Indeno(1,2,3-cd)pyrene	0.0497	0.0481		mg/Kg-dry	1	01/16/2013 6:21 PM	13352
Naphthalene	<0.0481	0.0481		mg/Kg-dry	1	01/16/2013 6:21 PM	13352
Phenanthrene	0.181	0.0481		mg/Kg-dry	1	01/16/2013 6:21 PM	13352
Pyrene	0.286	0.0481		mg/Kg-dry	1	01/16/2013 6:21 PM	13352
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	104	72.1-138		%REC	1	01/16/2013 6:21 PM	13352
SS: 4-Terphenyl-d14	100	45.3-152		%REC	1	01/16/2013 6:21 PM	13352
SS: Nitrobenzene-d5	99.7	62.6-144		%REC	1	01/16/2013 6:21 PM	13352
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: rjn	
Percent Moisture	17	1.0		wt%	1	01/11/2013 1:54 PM	R30652

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

PREP DATES REPORT

Client: Pioneer Environmental Services LLC
Project: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Lab Order: **1301461**

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1301461-002A	1/9/2013 8:45:00 AM	13290	5035PR	CLOSED SYSTEM P&T VOC Prep		1/11/2013
1301461-002B		13283	3550SIM_B	SOLID PREP SONICATION: BNA		1/11/2013
		13352	3550SIM_B	SOLID PREP SONICATION: BNA		1/16/2013
1301461-003A	1/9/2013 9:17:00 AM	13290	5035PR	CLOSED SYSTEM P&T VOC Prep		1/11/2013
1301461-003B		13303	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		1/14/2013
1301461-004A	1/9/2013 9:50:00 AM	13290	5035PR	CLOSED SYSTEM P&T VOC Prep		1/11/2013
1301461-004B		13283	3550SIM_B	SOLID PREP SONICATION: BNA		1/11/2013
		13352	3550SIM_B	SOLID PREP SONICATION: BNA		1/16/2013
1301461-005A	1/9/2013 10:15:00 A	13290	5035PR	CLOSED SYSTEM P&T VOC Prep		1/11/2013
1301461-005C		13320	HG_SPR	Mercury Prep for Solids		1/15/2013
		13283	3550SIM_B	SOLID PREP SONICATION: BNA		1/11/2013
		13352	3550SIM_B	SOLID PREP SONICATION: BNA		1/16/2013
		13371	3550_TRPH	SOLID PREP SONICATION: TRPH		1/17/2013
		13303	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		1/14/2013
1301461-006A	1/9/2013 10:55:00 A	13290	5035PR	CLOSED SYSTEM P&T VOC Prep		1/11/2013
1301461-006C		13320	HG_SPR	Mercury Prep for Solids		1/15/2013
		13283	3550SIM_B	SOLID PREP SONICATION: BNA		1/11/2013
		13352	3550SIM_B	SOLID PREP SONICATION: BNA		1/16/2013
		13303	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		1/14/2013
1301461-007A	1/9/2013 11:37:00 A	13290	5035PR	CLOSED SYSTEM P&T VOC Prep		1/11/2013
1301461-007B		13303	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		1/14/2013
1301461-008A	1/9/2013 12:05:00 P	13290	5035PR	CLOSED SYSTEM P&T VOC Prep		1/11/2013
1301461-008B		13303	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		1/14/2013
1301461-009A	1/9/2013 1:09:00 PM	13290	5035PR	CLOSED SYSTEM P&T VOC Prep		1/11/2013
1301461-009B		13283	3550SIM_B	SOLID PREP SONICATION: BNA		1/11/2013
		13352	3550SIM_B	SOLID PREP SONICATION: BNA		1/16/2013
1301461-010A	1/9/2013 1:45:00 PM	13290	5035PR	CLOSED SYSTEM P&T VOC Prep		1/11/2013
1301461-010B		13352	3550SIM_B	SOLID PREP SONICATION: BNA		1/16/2013
		13283	3550SIM_B	SOLID PREP SONICATION: BNA		1/11/2013

Suburban Laboratories, Inc.
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PREP DATES REPORT

Client: Pioneer Environmental Services LLC
Project: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Lab Order: **1301461**

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1301461-010B	1/9/2013 1:45:00 PM	13371	3550_TRPH	SOLID PREP SONICATION: TRPH		1/17/2013
1301461-011A	1/9/2013 2:33:00 PM	13290	5035PR	CLOSED SYSTEM P&T VOC Prep		1/11/2013
1301461-011B		13352	3550SIM_B	SOLID PREP SONICATION: BNA		1/16/2013
		13283	3550SIM_B	SOLID PREP SONICATION: BNA		1/11/2013

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Qualifier Definitions

WO#: **1301461**
Date: **1/18/2013**

Qualifiers:

*/x	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
c	Analyte not in SLI scope of accreditation
E	Estimated, detected above quantitation range
G	Refer to case narrative page for specific comments
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limit (QL)
N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit
P	Present
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits

SUBURBAN LABORATORIES, Inc.

4140 Litt Drive Hillside, IL 60162 Tel. 708.544.3260 Fax: 708.544.8587 Toll Free: 800.783.LABS www.suburbanlabs.com

CHAIN OF CUSTODY RECORD # 108154

Company Name: PIONEER
Company Address: 1700 N SACRAMENTO
City: CH60 State: Zip:
Phone: 773 722 5200 Fax: ☐ Fax Report
Email Address: NANOLAB@PIONEEREES.COM Final Report will be emailed
Project ID / Location: NWC W 63RD + HALSTED
Project Manager (Report to): NICOLE
Sample Collector(s) Name: JIM

TURNAROUND TIME REQUESTED
☒ Normal ☐ RUSH* *Additional Rush Charges Approved.
*Date & Time Needed:
Normal TAT is specified on the price quotation or fee schedule. Rush work must be pre-approved and additional charges apply.

Specify Regulatory Program: (Required) ☐ None/Info Only
☐ LUST ☐ SRP ☐ SDWA
☐ 503 Sludge ☐ NPDES ☐ MWRDGC
☐ Disposal ☐ Other* *Please specify in comment section below.

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

Page 1 of 1
PO No. 12-0646-101
Shipping Method
Reporting Level (at additional charge) 1 2 3 4
LAB USE ONLY
SLI ORDER No. 1301461
Sample containers supplied by customer? ☐ Yes
Temperature of Received Samples 5 °C
Samples received the same day as collection? ☐ Yes

	SAMPLE IDENTIFICATION *Use One Line Per Preservation & Container Type*	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	BTEX	PNAS	TOTAL LEAD	PH	VOCS	RCRA 8 METALS	~~[illegible]~~	TPH		HOLD	R	Condition	Split	LAB #
1	B1 (8-12)	1/9/13	819	SO		2	4oz (G) 40ml (W)	None MeOH	~~X~~	~~X~~								X			-	001A/B
2	B2 (4-8)	/ /	845	↓		↓	↓	↓	X	X												
3	B3 (4-8)	/ /	917	↓		↓	↓	↓	X		X	X										
4	B4 (4-8)	/ /	950	↓		4	4oz 40ml	↓	X	X												
5	B5 (4-8)	/ /	1015	↓		↓	↓	↓		X		X	X	X		X						
6	B6 (0-4)	/ /	1055	↓		↓	↓	↓		X		X	X	X								
7	B7 (4-8)	/ /	1137	↓		2	4oz (G) 40ml	↓	X		X	X										
8	B8 (4-8)	/ /	1205	↓		↓	↓	↓	X		X	X										
9	B9 (0-3)	/ /	109	↓		↓	↓	↓	X	X												
10	B10 (4-8)	/ /	145	↓		↓	↓	↓	X	X						X						
11	B11 (0-3)	/ /	233	↓		↓	↓	↓	X	X												
12		/ /																				

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) **CONTAINER:** 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) **PRESERVATIVE:** H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:
email to nicole@pioneerees.com

CONDITION CODES
1. Improper/damaged container/cap
2. Improper preservation
3. Insufficient sample volume
4. Headspace/air bubbles for VOCs
5. Received past holding time
6. Received frozen
7. Label conflicts with COC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
[signature]	1/9/13	[signature]	1-10-13				
Received By [signature] ☐ Ice present	Time 430	Received By [signature] ☐ Ice present	Time 14:40	Received By ☐ Ice present	Time	Received By ☐ Ice present	Time

Submission of samples subject to Terms and Conditions on back. Rev. 07/20/08 White-Original, Pink-Sampler Copy

SUBURBAN LABORATORIES, Inc.

4140 Litt Drive Hillside, Illinois 60162
Tel. (708) 544-3260 Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

January 18, 2013

Workorder: 1301530

Nicole Andrade
Pioneer Environmental Services LLC
700 N. Sacramento Blvd., Suite 101
Chicago, Illinois 60612

TEL: (773) 722-9200
FAX: (773) 722-9201
RE: NWC W. 63RD & HALSTED

Dear Nicole Andrade:

Suburban Laboratories, Inc. received 12 sample(s) on 1/11/2013 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation on, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Melissa Amador

Melissa Amador
Project Manager
708-544-3260 ext. 212
melissa@SuburbanLabs.com

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Case Narrative

Client: Pioneer Environmental Services LLC
Project: NWC W. 63RD & HALSTED
WorkOrder: 1301530
Temperature of samples upon receipt at SLI: 4 C

Date: January 18, 2013
PO #:
QC Level:
Chain of Custody #: 108156

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- In Laboratory: EPA recommends this analyte be analyzed "immediately" (e.g., tests that should be performed in the field within 15 minutes of collection). Analytes with "immediate" hold times are analyzed as soon as possible upon receipt by the laboratory.
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

Workorder Specific Comments:
Volatiles:
Sample 1301530-008A was analyzed at a dilution due to sample matrix. High levels of non-target compounds prevented analysis at lesser dilutions, resulting in elevated reporting limits.

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B12 (0-3)
Lab ID: 1301530-001
Date Received: 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 8:29 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	<1.14	1.14		mg/Kg-dry	1	01/15/2013 5:25 PM	13332
Barium	91.0	0.124		mg/Kg-dry	1	01/15/2013 5:25 PM	13332
Cadmium	1.74	0.0743		mg/Kg-dry	1	01/15/2013 5:25 PM	13332
Chromium	26.4	0.0594		mg/Kg-dry	1	01/15/2013 5:25 PM	13332
Lead	67.1	0.594		mg/Kg-dry	1	01/15/2013 5:25 PM	13332
Selenium	<1.29	1.29		mg/Kg-dry	1	01/15/2013 5:25 PM	13332
Silver	<0.0594	0.0594		mg/Kg-dry	1	01/16/2013 2:27 PM	13332
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
1,1,1-Trichloroethane	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
1,1,2,2-Tetrachloroethane	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
1,1,2-Trichloroethane	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
1,1-Dichloroethane	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
1,1-Dichloroethene	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
1,2-Dichloroethane	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
1,2-Dichloropropane	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
2-Butanone	0.0240	0.00945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
2-Hexanone	<0.0236	0.0236		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
4-Methyl-2-pentanone	<0.0236	0.0236		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
Acetone	0.108	0.0236		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
Benzene	<0.000236	0.000236		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
Bromodichloromethane	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
Bromoform	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
Bromomethane	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
Carbon disulfide	0.00136	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
Carbon tetrachloride	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
Chlorobenzene	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
Chloroethane	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
Chloroform	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
Chloromethane	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
cis-1,2-Dichloroethene	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
cis-1,3-Dichloropropene	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
Dibromochloromethane	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
Ethylbenzene	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
m,p-Xylene	<0.00189	0.00189		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B12 (0-3)
Lab ID: 1301530-001
Date Received: 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 8:29 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
Methyl tert-butyl ether	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
Methylene chloride	<0.00472	0.00472		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
o-Xylene	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
Total Xylenes	<0.00189	0.00189		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
Styrene	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
Tetrachloroethene	<0.00189	0.00189		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
Toluene	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
trans-1,2-Dichloroethene	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
trans-1,3-Dichloropropene	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
Trichloroethene	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
Vinyl chloride	<0.000945	0.000945		mg/Kg-dry	0.79	01/15/2013 8:12 PM	R30843
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	92.2	61.5-121		%REC	0.79	01/15/2013 8:12 PM	R30843
SS: Dibromofluoromethane	119	71.4-147		%REC	0.79	01/15/2013 8:12 PM	R30843
SS: Toluene-d8	101	61-135		%REC	0.79	01/15/2013 8:12 PM	R30843
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	<0.0443	0.0443		mg/Kg-dry	1	01/15/2013 4:24 PM	13304
Acenaphthylene	<0.0443	0.0443		mg/Kg-dry	1	01/15/2013 4:24 PM	13304
Anthracene	0.0805	0.0443		mg/Kg-dry	1	01/15/2013 4:24 PM	13304
Benzo(a)anthracene	0.192	0.0443		mg/Kg-dry	1	01/15/2013 4:24 PM	13304
Benzo(a)pyrene	0.204	0.0443		mg/Kg-dry	1	01/15/2013 4:24 PM	13304
Benzo(b)fluoranthene	0.225	0.0443		mg/Kg-dry	1	01/15/2013 4:24 PM	13304
Benzo(g,h,i)perylene	0.122	0.0443		mg/Kg-dry	1	01/15/2013 4:24 PM	13304
Benzo(k)fluoranthene	0.0747	0.0443		mg/Kg-dry	1	01/15/2013 4:24 PM	13304
Chrysene	0.211	0.0443		mg/Kg-dry	1	01/15/2013 4:24 PM	13304
Dibenzo(a,h)anthracene	<0.0443	0.0443		mg/Kg-dry	1	01/15/2013 4:24 PM	13304
Fluoranthene	0.418	0.0443		mg/Kg-dry	1	01/15/2013 4:24 PM	13304
Fluorene	0.0555	0.0443		mg/Kg-dry	1	01/15/2013 4:24 PM	13304
Indeno(1,2,3-cd)pyrene	0.115	0.0443		mg/Kg-dry	1	01/15/2013 4:24 PM	13304
Naphthalene	0.181	0.0443		mg/Kg-dry	1	01/15/2013 4:24 PM	13304
Phenanthrene	0.287	0.0443		mg/Kg-dry	1	01/15/2013 4:24 PM	13304
Pyrene	0.405	0.0443		mg/Kg-dry	1	01/15/2013 4:24 PM	13304
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	97.4	72.1-138		%REC	1	01/15/2013 4:24 PM	13304
SS: 4-Terphenyl-d14	95.2	45.3-152		%REC	1	01/15/2013 4:24 PM	13304

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED
Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B12 (0-3)
Lab ID: 1301530-001 **Date Received:** 01/11/2013 3:10 PM
Matrix: SOIL
Collection Date: 01/10/2013 8:29 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
SS: Nitrobenzene-d5	91.9	62.6-144		%REC	1	01/15/2013 4:24 PM	13304
MERCURY BY CVAA		Method: EPA-7471A-Rev 1, Sep-94				Analyst: dc	
Mercury	0.153	0.0227		mg/Kg-dry	1	01/15/2013 2:15 PM	13320
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: kac	
ICP Specific Percent Moisture	15.22			wt%	1	01/14/2013 4:20 PM	R30721
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: LAP	
pH	7.77			pH Units	1	01/11/2013 5:16 PM	R30670
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: rjn	
Percent Moisture	16	1.0		wt%	1	01/14/2013 9:58 AM	R30690

Client Sample ID: B13 (0-3)
Lab ID: 1301530-002 **Date Received:** 01/11/2013 3:10 PM
Matrix: SOIL
Collection Date: 01/10/2013 8:48 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B13 (0-3)
Lab ID: 1301530-002
Date Received: 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 8:48 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	<1.13	1.13		mg/Kg-dry	1	01/15/2013 5:33 PM	13332
Barium	208	0.123		mg/Kg-dry	1	01/15/2013 5:33 PM	13332
Cadmium	2.46	0.0735		mg/Kg-dry	1	01/15/2013 5:33 PM	13332
Chromium	40.3	0.0588		mg/Kg-dry	1	01/15/2013 5:33 PM	13332
Lead	373	0.588		mg/Kg-dry	1	01/15/2013 5:33 PM	13332
Selenium	<1.27	1.27		mg/Kg-dry	1	01/15/2013 5:33 PM	13332
Silver	<0.0588	0.0588		mg/Kg-dry	1	01/16/2013 2:32 PM	13332
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
1,1,1-Trichloroethane	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
1,1,2,2-Tetrachloroethane	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
1,1,2-Trichloroethane	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
1,1-Dichloroethane	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
1,1-Dichloroethene	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
1,2-Dichloroethane	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
1,2-Dichloropropane	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
2-Butanone	<0.0109	0.0109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
2-Hexanone	<0.0272	0.0272		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
4-Methyl-2-pentanone	<0.0272	0.0272		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
Acetone	<0.0272	0.0272		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
Benzene	<0.000272	0.000272		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
Bromodichloromethane	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
Bromoform	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
Bromomethane	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
Carbon disulfide	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
Carbon tetrachloride	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
Chlorobenzene	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
Chloroethane	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
Chloroform	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
Chloromethane	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
cis-1,2-Dichloroethene	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
cis-1,3-Dichloropropene	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
Dibromochloromethane	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
Ethylbenzene	0.00111	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
m,p-Xylene	0.00271	0.00218		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B13 (0-3)
Lab ID: 1301530-002
Date Received: 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 8:48 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
Methyl tert-butyl ether	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
Methylene chloride	<0.00544	0.00544		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
o-Xylene	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
Total Xylenes	0.00271	0.00218		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
Styrene	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
Tetrachloroethene	<0.00218	0.00218		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
Toluene	0.00143	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
trans-1,2-Dichloroethene	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
trans-1,3-Dichloropropene	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
Trichloroethene	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
Vinyl chloride	<0.00109	0.00109		mg/Kg-dry	0.96	01/15/2013 8:52 PM	R30843
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	89.4	61.5-121		%REC	0.96	01/15/2013 8:52 PM	R30843
SS: Dibromofluoromethane	122	71.4-147		%REC	0.96	01/15/2013 8:52 PM	R30843
SS: Toluene-d8	98.0	61-135		%REC	0.96	01/15/2013 8:52 PM	R30843
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	<0.0438	0.0438		mg/Kg-dry	1	01/16/2013 8:10 PM	13304
Acenaphthylene	1.41	0.0438		mg/Kg-dry	1	01/16/2013 8:10 PM	13304
Anthracene	0.265	0.0438		mg/Kg-dry	1	01/16/2013 8:10 PM	13304
Benzo(a)anthracene	2.21	0.0438		mg/Kg-dry	1	01/16/2013 8:10 PM	13304
Benzo(a)pyrene	2.83	0.0438		mg/Kg-dry	1	01/16/2013 8:10 PM	13304
Benzo(b)fluoranthene	3.62	0.0438		mg/Kg-dry	1	01/16/2013 8:10 PM	13304
Benzo(g,h,i)perylene	0.721	0.0438		mg/Kg-dry	1	01/16/2013 8:10 PM	13304
Benzo(k)fluoranthene	1.11	0.0438		mg/Kg-dry	1	01/16/2013 8:10 PM	13304
Chrysene	2.03	0.0438		mg/Kg-dry	1	01/16/2013 8:10 PM	13304
Dibenzo(a,h)anthracene	0.277	0.0438		mg/Kg-dry	1	01/16/2013 8:10 PM	13304
Fluoranthene	1.79	0.0438		mg/Kg-dry	1	01/16/2013 8:10 PM	13304
Fluorene	0.125	0.0438		mg/Kg-dry	1	01/16/2013 8:10 PM	13304
Indeno(1,2,3-cd)pyrene	0.842	0.0438		mg/Kg-dry	1	01/16/2013 8:10 PM	13304
Naphthalene	0.840	0.0438		mg/Kg-dry	1	01/16/2013 8:10 PM	13304
Phenanthrene	0.889	0.0438		mg/Kg-dry	1	01/16/2013 8:10 PM	13304
Pyrene	1.68	0.0438		mg/Kg-dry	1	01/16/2013 8:10 PM	13304
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	107	72.1-138		%REC	1	01/16/2013 8:10 PM	13304
SS: 4-Terphenyl-d14	93.7	45.3-152		%REC	1	01/16/2013 8:10 PM	13304

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B13 (0-3)
Lab ID: 1301530-002 **Date Received:** 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 8:48 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
SS: Nitrobenzene-d5	97.2	62.6-144		%REC	1	01/16/2013 8:10 PM	13304
MERCURY BY CVAA		Method: EPA-7471A-Rev 1, Sep-94				Analyst: dc	
Mercury	0.0576	0.0227	J	mg/Kg-dry	1	01/15/2013 2:15 PM	13320
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: kac	
ICP Specific Percent Moisture	9.068			wt%	1	01/14/2013 4:20 PM	R30721
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: LAP	
pH	9.20			pH Units	1	01/11/2013 4:41 PM	R30670
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: rjn	
Percent Moisture	12	1.0		wt%	1	01/14/2013 9:58 AM	R30690

Client Sample ID: B14 (0-3)
Lab ID: 1301530-003 **Date Received:** 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 9:15 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B14 (0-3)
Lab ID: 1301530-003
Date Received: 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 9:15 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	<1.13	1.13		mg/Kg-dry	1	01/15/2013 5:41 PM	13332
Barium	127	0.123		mg/Kg-dry	1	01/15/2013 5:41 PM	13332
Cadmium	1.56	0.0735		mg/Kg-dry	1	01/15/2013 5:41 PM	13332
Chromium	35.0	0.0588		mg/Kg-dry	1	01/15/2013 5:41 PM	13332
Lead	39.9	0.588		mg/Kg-dry	1	01/15/2013 5:41 PM	13332
Selenium	<1.27	1.27		mg/Kg-dry	1	01/15/2013 5:41 PM	13332
Silver	<0.0588	0.0588		mg/Kg-dry	1	01/16/2013 2:36 PM	13332
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
1,1,1-Trichloroethane	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
1,1,2,2-Tetrachloroethane	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
1,1,2-Trichloroethane	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
1,1-Dichloroethane	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
1,1-Dichloroethene	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
1,2-Dichloroethane	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
1,2-Dichloropropane	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
2-Butanone	<0.0126	0.0126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
2-Hexanone	<0.0315	0.0315		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
4-Methyl-2-pentanone	<0.0315	0.0315		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
Acetone	<0.0315	0.0315		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
Benzene	<0.000315	0.000315		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
Bromodichloromethane	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
Bromoform	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
Bromomethane	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
Carbon disulfide	0.0277	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
Carbon tetrachloride	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
Chlorobenzene	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
Chloroethane	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
Chloroform	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
Chloromethane	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
cis-1,2-Dichloroethene	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
cis-1,3-Dichloropropene	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
Dibromochloromethane	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
Ethylbenzene	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
m,p-Xylene	<0.00252	0.00252		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B14 (0-3)
Lab ID: 1301530-003
Date Received: 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 9:15 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
Methyl tert-butyl ether	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
Methylene chloride	<0.00631	0.00631		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
o-Xylene	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
Total Xylenes	<0.00252	0.00252		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
Styrene	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
Tetrachloroethene	<0.00252	0.00252		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
Toluene	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
trans-1,2-Dichloroethene	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
trans-1,3-Dichloropropene	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
Trichloroethene	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
Vinyl chloride	<0.00126	0.00126		mg/Kg-dry	1.07	01/15/2013 3:32 PM	R30843
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	86.3	61.5-121		%REC	1.07	01/15/2013 3:32 PM	R30843
SS: Dibromofluoromethane	130	71.4-147		%REC	1.07	01/15/2013 3:32 PM	R30843
SS: Toluene-d8	98.5	61-135		%REC	1.07	01/15/2013 3:32 PM	R30843
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	<0.0442	0.0442		mg/Kg-dry	1	01/15/2013 6:14 PM	13304
Acenaphthylene	<0.0442	0.0442		mg/Kg-dry	1	01/15/2013 6:14 PM	13304
Anthracene	<0.0442	0.0442		mg/Kg-dry	1	01/15/2013 6:14 PM	13304
Benzo(a)anthracene	0.101	0.0442		mg/Kg-dry	1	01/15/2013 6:14 PM	13304
Benzo(a)pyrene	0.104	0.0442		mg/Kg-dry	1	01/15/2013 6:14 PM	13304
Benzo(b)fluoranthene	0.120	0.0442		mg/Kg-dry	1	01/15/2013 6:14 PM	13304
Benzo(g,h,i)perylene	0.0512	0.0442		mg/Kg-dry	1	01/15/2013 6:14 PM	13304
Benzo(k)fluoranthene	<0.0442	0.0442		mg/Kg-dry	1	01/15/2013 6:14 PM	13304
Chrysene	0.117	0.0442		mg/Kg-dry	1	01/15/2013 6:14 PM	13304
Dibenzo(a,h)anthracene	<0.0442	0.0442		mg/Kg-dry	1	01/15/2013 6:14 PM	13304
Fluoranthene	0.184	0.0442		mg/Kg-dry	1	01/15/2013 6:14 PM	13304
Fluorene	<0.0442	0.0442		mg/Kg-dry	1	01/15/2013 6:14 PM	13304
Indeno(1,2,3-cd)pyrene	<0.0442	0.0442		mg/Kg-dry	1	01/15/2013 6:14 PM	13304
Naphthalene	0.0980	0.0442		mg/Kg-dry	1	01/15/2013 6:14 PM	13304
Phenanthrene	0.216	0.0442		mg/Kg-dry	1	01/15/2013 6:14 PM	13304
Pyrene	0.222	0.0442		mg/Kg-dry	1	01/15/2013 6:14 PM	13304
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	100	72.1-138		%REC	1	01/15/2013 6:14 PM	13304
SS: 4-Terphenyl-d14	91.7	45.3-152		%REC	1	01/15/2013 6:14 PM	13304

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B14 (0-3)
Lab ID: 1301530-003 **Date Received:** 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 9:15 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
SS: Nitrobenzene-d5	90.3	62.6-144		%REC	1	01/15/2013 6:14 PM	13304
MERCURY BY CVAA		Method: EPA-7471A-Rev 1, Sep-94				Analyst: dc	
Mercury	1.10	0.0230		mg/Kg-dry	1	01/15/2013 2:15 PM	13320
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: kac	
ICP Specific Percent Moisture	15.04			wt%	1	01/14/2013 4:20 PM	R30721
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: LAP	
pH	8.25			pH Units	1	01/11/2013 4:47 PM	R30670
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: rjn	
Percent Moisture	15	1.0		wt%	1	01/14/2013 9:58 AM	R30690

Client Sample ID: B15 (0-3)
Lab ID: 1301530-004 **Date Received:** 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 9:42 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B15 (0-3)
Lab ID: 1301530-004
Date Received: 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 9:42 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	<1.14	1.14		mg/Kg-dry	1	01/15/2013 5:50 PM	13332
Barium	164	0.124		mg/Kg-dry	1	01/15/2013 5:50 PM	13332
Cadmium	3.13	0.0743		mg/Kg-dry	1	01/15/2013 5:50 PM	13332
Chromium	46.8	0.0594		mg/Kg-dry	1	01/15/2013 5:50 PM	13332
Lead	102	0.594		mg/Kg-dry	1	01/15/2013 5:50 PM	13332
Selenium	<1.29	1.29		mg/Kg-dry	1	01/15/2013 5:50 PM	13332
Silver	<0.0594	0.0594		mg/Kg-dry	1	01/16/2013 3:00 PM	13332
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
1,1,1-Trichloroethane	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
1,1,2,2-Tetrachloroethane	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
1,1,2-Trichloroethane	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
1,1-Dichloroethane	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
1,1-Dichloroethene	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
1,2-Dichloroethane	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
1,2-Dichloropropane	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
2-Butanone	<0.00896	0.00896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
2-Hexanone	<0.0224	0.0224		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
4-Methyl-2-pentanone	<0.0224	0.0224		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
Acetone	<0.0224	0.0224		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
Benzene	<0.000224	0.000224		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
Bromodichloromethane	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
Bromoform	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
Bromomethane	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
Carbon disulfide	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
Carbon tetrachloride	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
Chlorobenzene	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
Chloroethane	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
Chloroform	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
Chloromethane	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
cis-1,2-Dichloroethene	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
cis-1,3-Dichloropropene	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
Dibromochloromethane	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
Ethylbenzene	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
m,p-Xylene	<0.00179	0.00179		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED
Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B15 (0-3)
Lab ID: 1301530-004
Date Received: 01/11/2013 3:10 PM
Matrix: SOIL
Collection Date: 01/10/2013 9:42 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
Methyl tert-butyl ether	0.00262	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
Methylene chloride	0.0317	0.00448		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
o-Xylene	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
Total Xylenes	<0.00179	0.00179		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
Styrene	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
Tetrachloroethene	<0.00179	0.00179		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
Toluene	0.00113	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
trans-1,2-Dichloroethene	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
trans-1,3-Dichloropropene	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
Trichloroethene	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
Vinyl chloride	<0.000896	0.000896		mg/Kg-dry	0.78	01/15/2013 4:12 PM	R30843
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	84.8	61.5-121		%REC	0.78	01/15/2013 4:12 PM	R30843
SS: Dibromofluoromethane	124	71.4-147		%REC	0.78	01/15/2013 4:12 PM	R30843
SS: Toluene-d8	95.9	61-135		%REC	0.78	01/15/2013 4:12 PM	R30843
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	0.858	0.401		mg/Kg-dry	10	01/15/2013 6:51 PM	13304
Acenaphthylene	<0.401	0.401		mg/Kg-dry	10	01/15/2013 6:51 PM	13304
Anthracene	2.78	0.401		mg/Kg-dry	10	01/15/2013 6:51 PM	13304
Benzo(a)anthracene	4.40	0.401		mg/Kg-dry	10	01/15/2013 6:51 PM	13304
Benzo(a)pyrene	3.87	0.401		mg/Kg-dry	10	01/15/2013 6:51 PM	13304
Benzo(b)fluoranthene	4.72	0.401		mg/Kg-dry	10	01/15/2013 6:51 PM	13304
Benzo(g,h,i)perylene	1.52	0.401		mg/Kg-dry	10	01/15/2013 6:51 PM	13304
Benzo(k)fluoranthene	1.86	0.401		mg/Kg-dry	10	01/15/2013 6:51 PM	13304
Chrysene	4.60	0.401		mg/Kg-dry	10	01/15/2013 6:51 PM	13304
Dibenzo(a,h)anthracene	0.411	0.401		mg/Kg-dry	10	01/15/2013 6:51 PM	13304
Fluoranthene	10.8	0.401		mg/Kg-dry	10	01/15/2013 6:51 PM	13304
Fluorene	1.11	0.401		mg/Kg-dry	10	01/15/2013 6:51 PM	13304
Indeno(1,2,3-cd)pyrene	1.51	0.401		mg/Kg-dry	10	01/15/2013 6:51 PM	13304
Naphthalene	1.55	0.401		mg/Kg-dry	10	01/15/2013 6:51 PM	13304
Phenanthrene	10.8	0.401		mg/Kg-dry	10	01/15/2013 6:51 PM	13304
Pyrene	8.83	0.401		mg/Kg-dry	10	01/15/2013 6:51 PM	13304
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	82.5	72.1-138		%REC	10	01/15/2013 6:51 PM	13304
SS: 4-Terphenyl-d14	79.8	45.3-152		%REC	10	01/15/2013 6:51 PM	13304

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B15 (0-3)
Lab ID: 1301530-004 **Date Received:** 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 9:42 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
SS: Nitrobenzene-d5	75.0	62.6-144		%REC	10	01/15/2013 6:51 PM	13304
MERCURY BY CVAA		Method: EPA-7471A-Rev 1, Sep-94				Analyst: dc	
Mercury	0.0776	0.0218	J	mg/Kg-dry	1	01/15/2013 2:15 PM	13320
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: kac	
ICP Specific Percent Moisture	12.22			wt%	1	01/14/2013 4:20 PM	R30721
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: LAP	
pH	8.67			pH Units	1	01/11/2013 4:49 PM	R30670
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: rjn	
Percent Moisture	13	1.0		wt%	1	01/14/2013 9:58 AM	R30690

Client Sample ID: B16 (0-3)
Lab ID: 1301530-005 **Date Received:** 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 10:09 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B16 (0-3)
Lab ID: 1301530-005
Date Received: 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 10:09 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	<1.14	1.14		mg/Kg-dry	1	01/15/2013 5:58 PM	13332
Barium	82.2	0.124		mg/Kg-dry	1	01/15/2013 5:58 PM	13332
Cadmium	1.01	0.0743		mg/Kg-dry	1	01/15/2013 5:58 PM	13332
Chromium	15.4	0.0594		mg/Kg-dry	1	01/15/2013 5:58 PM	13332
Lead	109	0.594		mg/Kg-dry	1	01/15/2013 5:58 PM	13332
Selenium	<1.29	1.29		mg/Kg-dry	1	01/15/2013 5:58 PM	13332
Silver	<0.0594	0.0594		mg/Kg-dry	1	01/16/2013 3:04 PM	13332
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
1,1,1-Trichloroethane	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
1,1,2,2-Tetrachloroethane	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
1,1,2-Trichloroethane	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
1,1-Dichloroethane	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
1,1-Dichloroethene	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
1,2-Dichloroethane	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
1,2-Dichloropropane	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
2-Butanone	<0.0107	0.0107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
2-Hexanone	<0.0266	0.0266		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
4-Methyl-2-pentanone	<0.0266	0.0266		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
Acetone	<0.0266	0.0266		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
Benzene	<0.000266	0.000266		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
Bromodichloromethane	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
Bromoform	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
Bromomethane	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
Carbon disulfide	0.0120	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
Carbon tetrachloride	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
Chlorobenzene	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
Chloroethane	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
Chloroform	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
Chloromethane	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
cis-1,2-Dichloroethene	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
cis-1,3-Dichloropropene	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
Dibromochloromethane	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
Ethylbenzene	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
m,p-Xylene	<0.00213	0.00213		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B16 (0-3)
Lab ID: 1301530-005
Date Received: 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 10:09 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
Methyl tert-butyl ether	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
Methylene chloride	<0.00533	0.00533		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
o-Xylene	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
Total Xylenes	<0.00213	0.00213		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
Styrene	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
Tetrachloroethene	<0.00213	0.00213		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
Toluene	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
trans-1,2-Dichloroethene	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
trans-1,3-Dichloropropene	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
Trichloroethene	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
Vinyl chloride	<0.00107	0.00107		mg/Kg-dry	0.94	01/15/2013 4:52 PM	R30843
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	87.2	61.5-121		%REC	0.94	01/15/2013 4:52 PM	R30843
SS: Dibromofluoromethane	125	71.4-147		%REC	0.94	01/15/2013 4:52 PM	R30843
SS: Toluene-d8	100	61-135		%REC	0.94	01/15/2013 4:52 PM	R30843
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	0.343	0.0453		mg/Kg-dry	1	01/16/2013 8:46 PM	13304
Acenaphthylene	0.154	0.0453		mg/Kg-dry	1	01/16/2013 8:46 PM	13304
Anthracene	0.987	0.0453		mg/Kg-dry	1	01/16/2013 8:46 PM	13304
Benzo(a)anthracene	3.50	0.0453		mg/Kg-dry	1	01/16/2013 8:46 PM	13304
Benzo(a)pyrene	3.45	0.0453		mg/Kg-dry	1	01/16/2013 8:46 PM	13304
Benzo(b)fluoranthene	3.44	0.453		mg/Kg-dry	10	01/15/2013 7:27 PM	13304
Benzo(g,h,i)perylene	0.685	0.0453		mg/Kg-dry	1	01/16/2013 8:46 PM	13304
Benzo(k)fluoranthene	1.46	0.0453		mg/Kg-dry	1	01/16/2013 8:46 PM	13304
Chrysene	3.47	0.0453		mg/Kg-dry	1	01/16/2013 8:46 PM	13304
Dibenzo(a,h)anthracene	0.225	0.0453		mg/Kg-dry	1	01/16/2013 8:46 PM	13304
Fluoranthene	4.78	0.453		mg/Kg-dry	10	01/15/2013 7:27 PM	13304
Fluorene	0.432	0.0453		mg/Kg-dry	1	01/16/2013 8:46 PM	13304
Indeno(1,2,3-cd)pyrene	0.775	0.0453		mg/Kg-dry	1	01/16/2013 8:46 PM	13304
Naphthalene	0.167	0.0453		mg/Kg-dry	1	01/16/2013 8:46 PM	13304
Phenanthrene	3.08	0.0453		mg/Kg-dry	1	01/16/2013 8:46 PM	13304
Pyrene	4.25	0.453		mg/Kg-dry	10	01/15/2013 7:27 PM	13304
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	114	72.1-138		%REC	1	01/16/2013 8:46 PM	13304
SS: 4-Terphenyl-d14	105	45.3-152		%REC	1	01/16/2013 8:46 PM	13304

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B16 (0-3)
Lab ID: 1301530-005 **Date Received:** 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 10:09 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
SS: Nitrobenzene-d5	107	62.6-144		%REC	1	01/16/2013 8:46 PM	13304
MERCURY BY CVAA		Method: EPA-7471A-Rev 1, Sep-94				Analyst: dc	
Mercury	0.153	0.0227		mg/Kg-dry	1	01/15/2013 2:15 PM	13320
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: kac	
ICP Specific Percent Moisture	12.91			wt%	1	01/14/2013 4:20 PM	R30721
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: LAP	
pH	9.70			pH Units	1	01/11/2013 4:53 PM	R30670
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: rjn	
Percent Moisture	12	1.0		wt%	1	01/14/2013 9:58 AM	R30690

Client Sample ID: B17 (0-3)
Lab ID: 1301530-006 **Date Received:** 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 10:31 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B17 (0-3)
Lab ID: 1301530-006
Date Received: 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 10:31 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	<1.14	1.14		mg/Kg-dry	1	01/15/2013 6:06 PM	13332
Barium	137	0.124		mg/Kg-dry	1	01/15/2013 6:06 PM	13332
Cadmium	1.69	0.0743		mg/Kg-dry	1	01/15/2013 6:06 PM	13332
Chromium	38.7	0.0594		mg/Kg-dry	1	01/15/2013 6:06 PM	13332
Lead	292	0.594		mg/Kg-dry	1	01/15/2013 6:06 PM	13332
Selenium	<1.29	1.29		mg/Kg-dry	1	01/15/2013 6:06 PM	13332
Silver	<0.0594	0.0594		mg/Kg-dry	1	01/16/2013 3:09 PM	13332
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
1,1,1-Trichloroethane	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
1,1,2,2-Tetrachloroethane	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
1,1,2-Trichloroethane	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
1,1-Dichloroethane	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
1,1-Dichloroethene	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
1,2-Dichloroethane	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
1,2-Dichloropropane	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
2-Butanone	<0.00789	0.00789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
2-Hexanone	<0.0197	0.0197		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
4-Methyl-2-pentanone	<0.0197	0.0197		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
Acetone	0.0722	0.0197		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
Benzene	<0.000197	0.000197		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
Bromodichloromethane	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
Bromoform	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
Bromomethane	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
Carbon disulfide	0.00383	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
Carbon tetrachloride	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
Chlorobenzene	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
Chloroethane	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
Chloroform	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
Chloromethane	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
cis-1,2-Dichloroethene	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
cis-1,3-Dichloropropene	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
Dibromochloromethane	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
Ethylbenzene	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
m,p-Xylene	<0.00158	0.00158		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B17 (0-3)
Lab ID: 1301530-006 **Date Received:** 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 10:31 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
Methyl tert-butyl ether	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
Methylene chloride	<0.00394	0.00394		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
o-Xylene	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
Total Xylenes	<0.00158	0.00158		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
Styrene	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
Tetrachloroethene	<0.00158	0.00158		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
Toluene	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
trans-1,2-Dichloroethene	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
trans-1,3-Dichloropropene	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
Trichloroethene	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
Vinyl chloride	<0.000789	0.000789		mg/Kg-dry	0.68	01/15/2013 5:32 PM	R30843
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	89.0	61.5-121		%REC	0.68	01/15/2013 5:32 PM	R30843
SS: Dibromofluoromethane	125	71.4-147		%REC	0.68	01/15/2013 5:32 PM	R30843
SS: Toluene-d8	101	61-135		%REC	0.68	01/15/2013 5:32 PM	R30843
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	0.136	0.0460		mg/Kg-dry	1	01/15/2013 8:04 PM	13304
Acenaphthylene	0.108	0.0460		mg/Kg-dry	1	01/15/2013 8:04 PM	13304
Anthracene	0.404	0.0460		mg/Kg-dry	1	01/15/2013 8:04 PM	13304
Benzo(a)anthracene	1.20	0.0460		mg/Kg-dry	1	01/15/2013 8:04 PM	13304
Benzo(a)pyrene	1.20	0.0460		mg/Kg-dry	1	01/15/2013 8:04 PM	13304
Benzo(b)fluoranthene	1.49	0.0460		mg/Kg-dry	1	01/15/2013 8:04 PM	13304
Benzo(g,h,i)perylene	0.393	0.0460		mg/Kg-dry	1	01/15/2013 8:04 PM	13304
Benzo(k)fluoranthene	0.462	0.0460		mg/Kg-dry	1	01/15/2013 8:04 PM	13304
Chrysene	1.13	0.0460		mg/Kg-dry	1	01/15/2013 8:04 PM	13304
Dibenzo(a,h)anthracene	0.123	0.0460		mg/Kg-dry	1	01/15/2013 8:04 PM	13304
Fluoranthene	2.02	0.0460		mg/Kg-dry	1	01/15/2013 8:04 PM	13304
Fluorene	0.161	0.0460		mg/Kg-dry	1	01/15/2013 8:04 PM	13304
Indeno(1,2,3-cd)pyrene	0.417	0.0460		mg/Kg-dry	1	01/15/2013 8:04 PM	13304
Naphthalene	0.223	0.0460		mg/Kg-dry	1	01/15/2013 8:04 PM	13304
Phenanthrene	1.21	0.0460		mg/Kg-dry	1	01/15/2013 8:04 PM	13304
Pyrene	1.75	0.0460		mg/Kg-dry	1	01/15/2013 8:04 PM	13304
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	99.4	72.1-138		%REC	1	01/15/2013 8:04 PM	13304
SS: 4-Terphenyl-d14	93.4	45.3-152		%REC	1	01/15/2013 8:04 PM	13304

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B17 (0-3)
Lab ID: 1301530-006 **Date Received:** 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 10:31 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
SS: Nitrobenzene-d5	90.4	62.6-144		%REC	1	01/15/2013 8:04 PM	13304
MERCURY BY CVAA		Method: EPA-7471A-Rev 1, Sep-94				Analyst: dc	
Mercury	0.186	0.0214		mg/Kg-dry	1	01/15/2013 2:15 PM	13320
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: kac	
ICP Specific Percent Moisture	12.43			wt%	1	01/14/2013 4:20 PM	R30721
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: LAP	
pH	8.63			pH Units	1	01/11/2013 4:56 PM	R30670
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: rjn	
Percent Moisture	14	1.0		wt%	1	01/14/2013 9:58 AM	R30690

Client Sample ID: B18 (0-3)
Lab ID: 1301530-007 **Date Received:** 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 10:59 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B18 (0-3)
Lab ID: 1301530-007
Date Received: 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 10:59 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	<1.15	1.15		mg/Kg-dry	1	01/15/2013 6:14 PM	13332
Barium	221	0.125		mg/Kg-dry	1	01/15/2013 6:14 PM	13332
Cadmium	2.20	0.0750		mg/Kg-dry	1	01/15/2013 6:14 PM	13332
Chromium	41.6	0.0600		mg/Kg-dry	1	01/15/2013 6:14 PM	13332
Lead	186	0.600		mg/Kg-dry	1	01/15/2013 6:14 PM	13332
Selenium	<1.30	1.30		mg/Kg-dry	1	01/15/2013 6:14 PM	13332
Silver	<0.0600	0.0600		mg/Kg-dry	1	01/16/2013 3:14 PM	13332
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
1,1,1-Trichloroethane	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
1,1,2,2-Tetrachloroethane	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
1,1,2-Trichloroethane	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
1,1-Dichloroethane	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
1,1-Dichloroethene	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
1,2-Dichloroethane	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
1,2-Dichloropropane	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
2-Butanone	<0.00975	0.00975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
2-Hexanone	<0.0244	0.0244		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
4-Methyl-2-pentanone	<0.0244	0.0244		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
Acetone	0.147	0.0244		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
Benzene	<0.000244	0.000244		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
Bromodichloromethane	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
Bromoform	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
Bromomethane	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
Carbon disulfide	0.00129	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
Carbon tetrachloride	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
Chlorobenzene	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
Chloroethane	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
Chloroform	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
Chloromethane	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
cis-1,2-Dichloroethene	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
cis-1,3-Dichloropropene	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
Dibromochloromethane	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
Ethylbenzene	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
m,p-Xylene	<0.00195	0.00195		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B18 (0-3)
Lab ID: 1301530-007
Date Received: 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 10:59 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
Methyl tert-butyl ether	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
Methylene chloride	<0.00487	0.00487		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
o-Xylene	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
Total Xylenes	<0.00195	0.00195		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
Styrene	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
Tetrachloroethene	<0.00195	0.00195		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
Toluene	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
trans-1,2-Dichloroethene	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
trans-1,3-Dichloropropene	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
Trichloroethene	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
Vinyl chloride	<0.000975	0.000975		mg/Kg-dry	0.83	01/16/2013 1:17 PM	R30857
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	91.0	61.5-121		%REC	0.83	01/16/2013 1:17 PM	R30857
SS: Dibromofluoromethane	118	71.4-147		%REC	0.83	01/16/2013 1:17 PM	R30857
SS: Toluene-d8	100	61-135		%REC	0.83	01/16/2013 1:17 PM	R30857
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	<0.0425	0.0425		mg/Kg-dry	1	01/16/2013 9:23 PM	13304
Acenaphthylene	0.200	0.0425		mg/Kg-dry	1	01/16/2013 9:23 PM	13304
Anthracene	0.141	0.0425		mg/Kg-dry	1	01/16/2013 9:23 PM	13304
Benzo(a)anthracene	0.866	0.0425		mg/Kg-dry	1	01/16/2013 9:23 PM	13304
Benzo(a)pyrene	0.998	0.0425		mg/Kg-dry	1	01/16/2013 9:23 PM	13304
Benzo(b)fluoranthene	1.25	0.0425		mg/Kg-dry	1	01/16/2013 9:23 PM	13304
Benzo(g,h,i)perylene	0.163	0.0425		mg/Kg-dry	1	01/16/2013 9:23 PM	13304
Benzo(k)fluoranthene	0.440	0.0425		mg/Kg-dry	1	01/16/2013 9:23 PM	13304
Chrysene	0.933	0.0425		mg/Kg-dry	1	01/16/2013 9:23 PM	13304
Dibenzo(a,h)anthracene	0.0631	0.0425		mg/Kg-dry	1	01/16/2013 9:23 PM	13304
Fluoranthene	0.923	0.0425		mg/Kg-dry	1	01/16/2013 9:23 PM	13304
Fluorene	0.0559	0.0425		mg/Kg-dry	1	01/16/2013 9:23 PM	13304
Indeno(1,2,3-cd)pyrene	0.190	0.0425		mg/Kg-dry	1	01/16/2013 9:23 PM	13304
Naphthalene	0.250	0.0425		mg/Kg-dry	1	01/16/2013 9:23 PM	13304
Phenanthrene	0.611	0.0425		mg/Kg-dry	1	01/16/2013 9:23 PM	13304
Pyrene	1.00	0.0425		mg/Kg-dry	1	01/16/2013 9:23 PM	13304
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	110	72.1-138		%REC	1	01/16/2013 9:23 PM	13304
SS: 4-Terphenyl-d14	101	45.3-152		%REC	1	01/16/2013 9:23 PM	13304

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B18 (0-3)
Lab ID: 1301530-007 **Date Received:** 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 10:59 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
SS: Nitrobenzene-d5	103	62.6-144		%REC	1	01/16/2013 9:23 PM	13304
MERCURY BY CVAA		Method: EPA-7471A-Rev 1, Sep-94				Analyst: dc	
Mercury	0.375	0.0217		mg/Kg-dry	1	01/15/2013 2:15 PM	13320
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: kac	
ICP Specific Percent Moisture	17.64			wt%	1	01/14/2013 4:20 PM	R30721
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: LAP	
pH	8.21			pH Units	1	01/11/2013 4:58 PM	R30670
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: rjn	
Percent Moisture	15	1.0		wt%	1	01/14/2013 9:58 AM	R30690

Client Sample ID: B19 (4-8)
Lab ID: 1301530-008 **Date Received:** 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 11:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B19 (4-8)
Lab ID: 1301530-008
Date Received: 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 11:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	2.19	1.15	J	mg/Kg-dry	1	01/15/2013 7:12 PM	13332
Barium	8.46	0.125		mg/Kg-dry	1	01/15/2013 7:12 PM	13332
Cadmium	0.160	0.0750	J	mg/Kg-dry	1	01/15/2013 7:12 PM	13332
Chromium	6.06	0.0600		mg/Kg-dry	1	01/15/2013 7:12 PM	13332
Lead	6.21	0.600		mg/Kg-dry	1	01/15/2013 7:12 PM	13332
Selenium	<1.30	1.30		mg/Kg-dry	1	01/15/2013 7:12 PM	13332
Silver	<0.0600	0.0600		mg/Kg-dry	1	01/16/2013 3:18 PM	13332
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: ks	
1,1,1-Trichloroethane	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
1,1,2,2-Tetrachloroethane	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
1,1,2-Trichloroethane	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
1,1-Dichloroethane	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
1,1-Dichloroethene	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
1,2-Dichloroethane	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
1,2-Dichloropropane	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
2-Butanone	<0.296	0.296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
2-Hexanone	<0.740	0.740		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
4-Methyl-2-pentanone	<0.740	0.740		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
Acetone	<0.740	0.740		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
Benzene	<0.00740	0.00740		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
Bromodichloromethane	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
Bromoform	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
Bromomethane	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
Carbon disulfide	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
Carbon tetrachloride	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
Chlorobenzene	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
Chloroethane	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
Chloroform	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
Chloromethane	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
cis-1,2-Dichloroethene	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
cis-1,3-Dichloropropene	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
Dibromochloromethane	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
Ethylbenzene	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
m,p-Xylene	<0.0592	0.0592		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B19 (4-8)
Lab ID: 1301530-008
Date Received: 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 11:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: ks	
Methyl tert-butyl ether	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
Methylene chloride	<0.148	0.148		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
o-Xylene	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
Total Xylenes	<0.0592	0.0592		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
Styrene	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
Tetrachloroethene	<0.0592	0.0592		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
Toluene	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
trans-1,2-Dichloroethene	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
trans-1,3-Dichloropropene	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
Trichloroethene	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
Vinyl chloride	<0.0296	0.0296		mg/Kg-dry	25.1	01/16/2013 3:15 PM	R30846
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	112	85.9-111	S	%REC	25.1	01/16/2013 3:15 PM	R30846
SS: Dibromofluoromethane	106	87.5-113		%REC	25.1	01/16/2013 3:15 PM	R30846
SS: Toluene-d8	109	83.3-121		%REC	25.1	01/16/2013 3:15 PM	R30846
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	0.386	0.0421		mg/Kg-dry	1	01/15/2013 9:17 PM	13304
Acenaphthylene	0.186	0.0421		mg/Kg-dry	1	01/15/2013 9:17 PM	13304
Anthracene	0.127	0.0421		mg/Kg-dry	1	01/15/2013 9:17 PM	13304
Benzo(a)anthracene	<0.0421	0.0421		mg/Kg-dry	1	01/15/2013 9:17 PM	13304
Benzo(a)pyrene	<0.0421	0.0421		mg/Kg-dry	1	01/15/2013 9:17 PM	13304
Benzo(b)fluoranthene	<0.0421	0.0421		mg/Kg-dry	1	01/15/2013 9:17 PM	13304
Benzo(g,h,i)perylene	<0.0421	0.0421		mg/Kg-dry	1	01/15/2013 9:17 PM	13304
Benzo(k)fluoranthene	<0.0421	0.0421		mg/Kg-dry	1	01/15/2013 9:17 PM	13304
Chrysene	<0.0421	0.0421		mg/Kg-dry	1	01/15/2013 9:17 PM	13304
Dibenzo(a,h)anthracene	<0.0421	0.0421		mg/Kg-dry	1	01/15/2013 9:17 PM	13304
Fluoranthene	<0.0421	0.0421		mg/Kg-dry	1	01/15/2013 9:17 PM	13304
Fluorene	1.00	0.0421		mg/Kg-dry	1	01/15/2013 9:17 PM	13304
Indeno(1,2,3-cd)pyrene	<0.0421	0.0421		mg/Kg-dry	1	01/15/2013 9:17 PM	13304
Naphthalene	0.0751	0.0421		mg/Kg-dry	1	01/15/2013 9:17 PM	13304
Phenanthrene	1.30	0.0421		mg/Kg-dry	1	01/15/2013 9:17 PM	13304
Pyrene	<0.0421	0.0421		mg/Kg-dry	1	01/15/2013 9:17 PM	13304
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	87.8	72.1-138		%REC	1	01/15/2013 9:17 PM	13304
SS: 4-Terphenyl-d14	94.9	45.3-152		%REC	1	01/15/2013 9:17 PM	13304

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B19 (4-8)
Lab ID: 1301530-008 **Date Received:** 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 11:45 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
SS: Nitrobenzene-d5	97.7	62.6-144		%REC	1	01/15/2013 9:17 PM	13304
MERCURY BY CVAA		Method: EPA-7471A-Rev 1, Sep-94				Analyst: dc	
Mercury	0.0709	0.0236	J	mg/Kg-dry	1	01/15/2013 2:15 PM	13320
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: kac	
ICP Specific Percent Moisture	16.57			wt%	1	01/14/2013 4:20 PM	R30721
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: LAP	
pH	8.17			pH Units	1	01/11/2013 5:01 PM	R30670
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: rjn	
Percent Moisture	15	1.0		wt%	1	01/14/2013 9:58 AM	R30690

Client Sample ID: B20 (0-3)
Lab ID: 1301530-009 **Date Received:** 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 12:15 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B20 (0-3)
Lab ID: 1301530-009
Date Received: 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 12:15 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	3.77	1.15	J	mg/Kg-dry	1	01/15/2013 7:21 PM	13332
Barium	86.0	0.125		mg/Kg-dry	1	01/15/2013 7:21 PM	13332
Cadmium	0.448	0.0750		mg/Kg-dry	1	01/15/2013 7:21 PM	13332
Chromium	8.09	0.0600		mg/Kg-dry	1	01/15/2013 7:21 PM	13332
Lead	136	0.600		mg/Kg-dry	1	01/15/2013 7:21 PM	13332
Selenium	<1.30	1.30		mg/Kg-dry	1	01/15/2013 7:21 PM	13332
Silver	<0.0600	0.0600		mg/Kg-dry	1	01/16/2013 3:21 PM	13332
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
1,1,1-Trichloroethane	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
1,1,2,2-Tetrachloroethane	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
1,1,2-Trichloroethane	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
1,1-Dichloroethane	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
1,1-Dichloroethene	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
1,2-Dichloroethane	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
1,2-Dichloropropane	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
2-Butanone	<0.0102	0.0102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
2-Hexanone	<0.0254	0.0254		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
4-Methyl-2-pentanone	<0.0254	0.0254		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
Acetone	<0.0254	0.0254		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
Benzene	<0.000254	0.000254		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
Bromodichloromethane	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
Bromoform	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
Bromomethane	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
Carbon disulfide	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
Carbon tetrachloride	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
Chlorobenzene	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
Chloroethane	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
Chloroform	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
Chloromethane	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
cis-1,2-Dichloroethene	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
cis-1,3-Dichloropropene	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
Dibromochloromethane	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
Ethylbenzene	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
m,p-Xylene	<0.00203	0.00203		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B20 (0-3)
Lab ID: 1301530-009 **Date Received:** 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 12:15 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
Methyl tert-butyl ether	0.00214	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
Methylene chloride	0.0187	0.00508		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
o-Xylene	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
Total Xylenes	<0.00203	0.00203		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
Styrene	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
Tetrachloroethene	<0.00203	0.00203		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
Toluene	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
trans-1,2-Dichloroethene	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
trans-1,3-Dichloropropene	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
Trichloroethene	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
Vinyl chloride	<0.00102	0.00102		mg/Kg-dry	0.87	01/16/2013 1:57 PM	R30857
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	92.8	61.5-121		%REC	0.87	01/16/2013 1:57 PM	R30857
SS: Dibromofluoromethane	129	71.4-147		%REC	0.87	01/16/2013 1:57 PM	R30857
SS: Toluene-d8	100	61-135		%REC	0.87	01/16/2013 1:57 PM	R30857
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	0.278	0.0446		mg/Kg-dry	1	01/16/2013 9:59 PM	13304
Acenaphthylene	0.0831	0.0446		mg/Kg-dry	1	01/16/2013 9:59 PM	13304
Anthracene	1.10	0.0446		mg/Kg-dry	1	01/16/2013 9:59 PM	13304
Benzo(a)anthracene	3.37	0.446		mg/Kg-dry	10	01/15/2013 9:54 PM	13304
Benzo(a)pyrene	3.74	0.446		mg/Kg-dry	10	01/15/2013 9:54 PM	13304
Benzo(b)fluoranthene	4.73	0.446		mg/Kg-dry	10	01/15/2013 9:54 PM	13304
Benzo(g,h,i)perylene	0.883	0.0446		mg/Kg-dry	1	01/16/2013 9:59 PM	13304
Benzo(k)fluoranthene	2.21	0.0446		mg/Kg-dry	1	01/16/2013 9:59 PM	13304
Chrysene	4.26	0.0446		mg/Kg-dry	1	01/16/2013 9:59 PM	13304
Dibenzo(a,h)anthracene	0.308	0.0446		mg/Kg-dry	1	01/16/2013 9:59 PM	13304
Fluoranthene	7.01	0.446		mg/Kg-dry	10	01/15/2013 9:54 PM	13304
Fluorene	0.507	0.0446		mg/Kg-dry	1	01/16/2013 9:59 PM	13304
Indeno(1,2,3-cd)pyrene	1.08	0.0446		mg/Kg-dry	1	01/16/2013 9:59 PM	13304
Naphthalene	0.0775	0.0446		mg/Kg-dry	1	01/16/2013 9:59 PM	13304
Phenanthrene	3.40	0.446		mg/Kg-dry	10	01/15/2013 9:54 PM	13304
Pyrene	5.45	0.446		mg/Kg-dry	10	01/15/2013 9:54 PM	13304
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	111	72.1-138		%REC	1	01/16/2013 9:59 PM	13304
SS: 4-Terphenyl-d14	99.7	45.3-152		%REC	1	01/16/2013 9:59 PM	13304

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B20 (0-3)
Lab ID: 1301530-009 **Date Received:** 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 12:15 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
SS: Nitrobenzene-d5	104	62.6-144		%REC	1	01/16/2013 9:59 PM	13304
MERCURY BY CVAA		Method: EPA-7471A-Rev 1, Sep-94				Analyst: dc	
Mercury	0.470	0.0227		mg/Kg-dry	1	01/15/2013 2:15 PM	13320
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: kac	
ICP Specific Percent Moisture	11.75			wt%	1	01/14/2013 4:20 PM	R30721
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: LAP	
pH	8.53			pH Units	1	01/11/2013 5:03 PM	R30670
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: rjn	
Percent Moisture	14	1.0		wt%	1	01/14/2013 9:58 AM	R30690

Client Sample ID: B21 (0-3)
Lab ID: 1301530-010 **Date Received:** 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 1:09 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B21 (0-3)
Lab ID: 1301530-010
Date Received: 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 1:09 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jmk	
Arsenic	3.13	1.13	J	mg/Kg-dry	1	01/15/2013 7:30 PM	13332
Barium	91.3	0.123		mg/Kg-dry	1	01/15/2013 7:30 PM	13332
Cadmium	0.768	0.0735		mg/Kg-dry	1	01/15/2013 7:30 PM	13332
Chromium	13.0	0.0588		mg/Kg-dry	1	01/15/2013 7:30 PM	13332
Lead	139	0.588		mg/Kg-dry	1	01/15/2013 7:30 PM	13332
Selenium	<1.27	1.27		mg/Kg-dry	1	01/15/2013 7:30 PM	13332
Silver	0.235	0.0588	J	mg/Kg-dry	1	01/16/2013 3:24 PM	13332
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
1,1,1-Trichloroethane	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
1,1,2,2-Tetrachloroethane	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
1,1,2-Trichloroethane	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
1,1-Dichloroethane	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
1,1-Dichloroethene	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
1,2-Dichloroethane	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
1,2-Dichloropropane	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
2-Butanone	<0.00824	0.00824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
2-Hexanone	<0.0206	0.0206		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
4-Methyl-2-pentanone	<0.0206	0.0206		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
Acetone	<0.0206	0.0206		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
Benzene	<0.000206	0.000206		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
Bromodichloromethane	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
Bromoform	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
Bromomethane	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
Carbon disulfide	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
Carbon tetrachloride	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
Chlorobenzene	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
Chloroethane	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
Chloroform	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
Chloromethane	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
cis-1,2-Dichloroethene	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
cis-1,3-Dichloropropene	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
Dibromochloromethane	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
Ethylbenzene	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
m,p-Xylene	<0.00165	0.00165		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B21 (0-3)
Lab ID: 1301530-010
Date Received: 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 1:09 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: JJ	
Methyl tert-butyl ether	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
Methylene chloride	<0.00412	0.00412		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
o-Xylene	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
Total Xylenes	<0.00165	0.00165		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
Styrene	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
Tetrachloroethene	<0.00165	0.00165		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
Toluene	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
trans-1,2-Dichloroethene	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
trans-1,3-Dichloropropene	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
Trichloroethene	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
Vinyl chloride	<0.000824	0.000824		mg/Kg-dry	0.72	01/15/2013 7:32 PM	R30843
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	92.0	61.5-121		%REC	0.72	01/15/2013 7:32 PM	R30843
SS: Dibromofluoromethane	125	71.4-147		%REC	0.72	01/15/2013 7:32 PM	R30843
SS: Toluene-d8	102	61-135		%REC	0.72	01/15/2013 7:32 PM	R30843
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Acenaphthene	0.0713	0.0454		mg/Kg-dry	1	01/15/2013 10:30 PM	13304
Acenaphthylene	0.188	0.0454		mg/Kg-dry	1	01/15/2013 10:30 PM	13304
Anthracene	0.298	0.0454		mg/Kg-dry	1	01/15/2013 10:30 PM	13304
Benzo(a)anthracene	1.37	0.0454		mg/Kg-dry	1	01/15/2013 10:30 PM	13304
Benzo(a)pyrene	1.53	0.0454		mg/Kg-dry	1	01/15/2013 10:30 PM	13304
Benzo(b)fluoranthene	1.69	0.0454		mg/Kg-dry	1	01/15/2013 10:30 PM	13304
Benzo(g,h,i)perylene	0.542	0.0454		mg/Kg-dry	1	01/15/2013 10:30 PM	13304
Benzo(k)fluoranthene	0.538	0.0454		mg/Kg-dry	1	01/15/2013 10:30 PM	13304
Chrysene	1.36	0.0454		mg/Kg-dry	1	01/15/2013 10:30 PM	13304
Dibenzo(a,h)anthracene	0.137	0.0454		mg/Kg-dry	1	01/15/2013 10:30 PM	13304
Fluoranthene	2.04	0.0454		mg/Kg-dry	1	01/15/2013 10:30 PM	13304
Fluorene	0.0620	0.0454		mg/Kg-dry	1	01/15/2013 10:30 PM	13304
Indeno(1,2,3-cd)pyrene	0.520	0.0454		mg/Kg-dry	1	01/15/2013 10:30 PM	13304
Naphthalene	0.0839	0.0454		mg/Kg-dry	1	01/15/2013 10:30 PM	13304
Phenanthrene	1.00	0.0454		mg/Kg-dry	1	01/15/2013 10:30 PM	13304
Pyrene	2.21	0.0454		mg/Kg-dry	1	01/15/2013 10:30 PM	13304
Internal Quality Control Compounds							
SS: 2-Fluorobiphenyl	99.7	72.1-138		%REC	1	01/15/2013 10:30 PM	13304
SS: 4-Terphenyl-d14	90.6	45.3-152		%REC	1	01/15/2013 10:30 PM	13304

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Workorder: 1301530

Client Sample ID: B21 (0-3)
Lab ID: 1301530-010
Date Received: 01/11/2013 3:10 PM

Matrix: SOIL
Collection Date: 01/10/2013 1:09 PM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS, BY GCMS SIM		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
SS: Nitrobenzene-d5	90.9	62.6-144		%REC	1	01/15/2013 10:30 PM	13304
MERCURY BY CVAA		Method: EPA-7471A-Rev 1, Sep-94				Analyst: dc	
Mercury	0.471	0.0229		mg/Kg-dry	1	01/15/2013 2:15 PM	13320
METALS, PERCENT MOISTURE		Method: EPA-200.2-Rev 2.8, 1994				Analyst: kac	
ICP Specific Percent Moisture	12.70			wt%	1	01/14/2013 4:20 PM	R30721
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: LAP	
pH	8.43			pH Units	1	01/11/2013 5:06 PM	R30670
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: rjn	
Percent Moisture	13	1.0		wt%	1	01/14/2013 9:58 AM	R30690

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

PREP DATES REPORT

Client: Pioneer Environmental Services LLC
Project: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Lab Order: **1301530**

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1301530-001A	1/10/2013 8:29:00 A	13309	5035PR	CLOSED SYSTEM P&T VOC Prep		1/14/2013
1301530-001C		13320	HG_SPR	Mercury Prep for Solids		1/15/2013
		13304	3550SIM_B	SOLID PREP SONICATION: BNA		1/14/2013
		13332	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		1/15/2013
1301530-002A	1/10/2013 8:48:00 A	13309	5035PR	CLOSED SYSTEM P&T VOC Prep		1/14/2013
1301530-002C		13320	HG_SPR	Mercury Prep for Solids		1/15/2013
		13304	3550SIM_B	SOLID PREP SONICATION: BNA		1/14/2013
		13332	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		1/15/2013
1301530-003A	1/10/2013 9:15:00 A	13309	5035PR	CLOSED SYSTEM P&T VOC Prep		1/14/2013
1301530-003C		13320	HG_SPR	Mercury Prep for Solids		1/15/2013
		13304	3550SIM_B	SOLID PREP SONICATION: BNA		1/14/2013
		13332	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		1/15/2013
1301530-004A	1/10/2013 9:42:00 A	13309	5035PR	CLOSED SYSTEM P&T VOC Prep		1/14/2013
1301530-004C		13320	HG_SPR	Mercury Prep for Solids		1/15/2013
		13304	3550SIM_B	SOLID PREP SONICATION: BNA		1/14/2013
		13332	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		1/15/2013
1301530-005A	1/10/2013 10:09:00 A	13309	5035PR	CLOSED SYSTEM P&T VOC Prep		1/14/2013
1301530-005C		13320	HG_SPR	Mercury Prep for Solids		1/15/2013
		13304	3550SIM_B	SOLID PREP SONICATION: BNA		1/14/2013
		13332	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		1/15/2013
1301530-006A	1/10/2013 10:31:00 A	13309	5035PR	CLOSED SYSTEM P&T VOC Prep		1/14/2013
1301530-006C		13320	HG_SPR	Mercury Prep for Solids		1/15/2013
		13304	3550SIM_B	SOLID PREP SONICATION: BNA		1/14/2013
		13332	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		1/15/2013
1301530-007A	1/10/2013 10:59:00 A	13309	5035PR	CLOSED SYSTEM P&T VOC Prep		1/14/2013
1301530-007C		13320	HG_SPR	Mercury Prep for Solids		1/15/2013
		13304	3550SIM_B	SOLID PREP SONICATION: BNA		1/14/2013
		13332	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		1/15/2013
1301530-008A	1/10/2013 11:45:00 A	13309	5035PR	CLOSED SYSTEM P&T VOC Prep		1/14/2013
1301530-008C		13320	HG_SPR	Mercury Prep for Solids		1/15/2013
		13304	3550SIM_B	SOLID PREP SONICATION: BNA		1/14/2013

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

PREP DATES REPORT

Client: Pioneer Environmental Services LLC
Project: NWC W. 63RD & HALSTED

Report Date: January 18, 2013
Lab Order: **1301530**

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1301530-008C	1/10/2013 11:45:00 A	13332	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		1/15/2013
1301530-009A	1/10/2013 12:15:00 P	13309	5035PR	CLOSED SYSTEM P&T VOC Prep		1/14/2013
1301530-009C		13320	HG_SPR	Mercury Prep for Solids		1/15/2013
		13304	3550SIM_B	SOLID PREP SONICATION: BNA		1/14/2013
		13332	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		1/15/2013
1301530-010A	1/10/2013 1:09:00 P	13309	5035PR	CLOSED SYSTEM P&T VOC Prep		1/14/2013
1301530-010C		13320	HG_SPR	Mercury Prep for Solids		1/15/2013
		13304	3550SIM_B	SOLID PREP SONICATION: BNA		1/14/2013
		13332	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		1/15/2013

Suburban Laboratories, Inc.
4140 Litt Drive, Hillside, IL 60162 (708) 544-3260

Qualifier Definitions

WO#: **1301530**
Date: **1/18/2013**

Qualifiers:

*/x	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
c	Analyte not in SLI scope of accreditation
E	Estimated, detected above quantitation range
G	Refer to case narrative page for specific comments
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limit (QL)
N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit
P	Present
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits

SUBURBAN LABORATORIES, Inc.

4140 Litt Drive Hillside, IL 60162 Tel. 708.544.3260 Fax: 708.544.8587 Toll Free: 800.783.LABS www.suburbanlabs.com

CHAIN OF CUSTODY RECORD

108156

Company Name: PIONEER
Company Address: 1700 N SACRAMENTO
City: CHGO State: IL Zip: 60612
Phone: 773 722 5200 Fax: ☐ Fax Report
Email Address: Nicole@pioneerees.com Final Report will be emailed
Project ID / Location: NWC W 63rd + Halsted
Project Manager (Report to): Nicole
Sample Collector(s) Name: VIM

TURNAROUND TIME REQUESTED
☒ Normal ☐ RUSH* *Additional Rush Charges Approved.
*Date & Time Needed:
Normal TAT is specified on the price quotation or fee schedule. Rush work must be pre-approved and additional charges apply.
Specify Regulatory Program: (Required) ☐ None/Info Only
☐ LUST ☐ SRP ☐ SDWA
☐ 503 Sludge ☐ NPDES ☐ MWRDGC
☐ Disposal ☐ Other* *Please specify in comment section below.

ANALYSIS & METHOD REQUESTED
Enter an "X" in box below for request

Page 1 of 8
PO No.
Shipping Method
Reporting Level (at additional charge) 1 2 3 4
LAB USE ONLY
SLI ORDER No. 1301530
Sample containers supplied by customer? ☐ Yes
Temperature of Received Samples 4 °C
Samples received the same day as collection? ☐ Yes

	SAMPLE IDENTIFICATION *Use One Line Per Preservation & Container Type*	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	VOCs	PNA	RCVA 8 METALS	PH	HOLD	R	Condition	Split	LAB #
1	B12 (0-3)	1/10/13	829	SO		5	4oz (e) 40ml	MeOH None	X	X	X	X				—	001A/B/C
2	B13 (0-3)	/ /	848	↓		4	4oz (e) 40ml	↓	X	X	X	X				—	002A/B/C
3	B14 (0-3)	/ /	915	↓		↓	↓	↓	X	X	X	X				—	003A/B/C
4	B15 (0-3)	/ /	942	↓		↓	↓	↓	X	X	X	X				—	004A/B/C
5	B16 (0-3)	/ /	1009	↓		↓	↓	↓	X	X	X	X				—	005A/B/C
6	B17 (0-3)	/ /	1031	↓		↓	↓	↓	X	X	X	X				—	006A/B/C
7	B18 (0-3)	/ /	1059	↓		↓	↓	↓	X	X	X	X				—	007A/B/C
8	B19 (4-8)	/ /	1145	↓		↓	↓	↓	X	X	X	X				—	008A/B/C
9	B20 (0-3)	/ /	1215	↓		↓	↓	↓	X	X	X	X				—	009A/B/C
10	B21 (0-3)	/ /	109	↓		↓	↓	↓	X	X	X	X				—	010A/B/C
11	B12 (4-8)	/ /											X			—	011A/B/C
12	B20 (4-8)	/ /											X			—	012A/B/C

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) **CONTAINER:** 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) **PRESERVATIVE:** H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

CONDITION CODES
1. Improper/damaged container/cap
2. Improper preservation
3. Insufficient sample volume
4. Headspace/air bubbles for VOCs
5. Received past holding time
6. Received frozen
7. Label conflicts with COC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
[signature]	1/10/13	[signature]	1/11/13				
Received By [signature] ☐ Ice present	Time 159	Received By [signature] ☒ Ice present	Time 15:10	Received By ☐ Ice present	Time	Received By ☐ Ice present	Time

Submission of samples subject to Terms and Conditions on back. Rev. 07/20/08 White-Original, Pink-Sampler Copy

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217)782-2829

PAT QUINN, GOVERNOR LISA BONNETT, DIRECTOR

217/524-3300

May 29, 2014

7012 0470 0001 2975 0533

City of Chicago Department of Fleet and Facility Management
Attn: Ms. Kimberly Worthington
30 North LaSalle Street
Chicago, IL 60602-2575

Re: 0316685080—Cook County
Chicago/Walgreens 0170
Site Remediation/Technical Reports

Dear Ms. Worthington:

The Illinois Environmental Protection Agency (Illinois EPA) has conducted a review of your *Comprehensive Site Investigation Report/Remedial Objectives Report/Remedial Action Plan (log # 14-56534)* for the Walgreens 0170 site, dated May 1, 2014. The Illinois EPA conditionally approves the reports and provides the following information for your files.

Within the above referenced reports, it has been indicated that an alternative barrier composed of 18 inches of clean soil underlain by a geotextile membrane will be used in green space and landscaped areas of the site. Please note that additional information must be provided to the Illinois EPA which details the specifics of which geotextile membrane will be used at the site. This alternative barrier information must be provided for review and approval before it is utilized at the site. Since it appears that the site will eventually be broken up into numerous parcels, each of which may, or may not, have a use for this alternative barrier, the Illinois EPA recommends that an amended Remedial Action Plan with this information, if necessary, be provided for each parcel. Once the aforementioned alternative barrier information has been submitted and approved, a Remedial Action Completion Report can be provided for review and approval for each parcel.

IEPA-DIVISION OF RECORDS MANAGEMENT
RELEASABLE

JUL 18 2014

REVIEWER: JKS

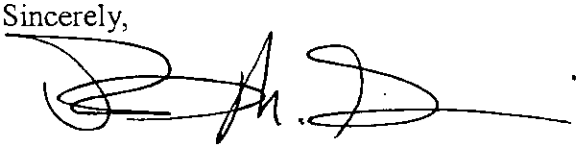
4302 N. Main St., Rockford, IL 61103 (815)987-7760
595 S. State, Elgin, IL 60123 (847)608-3131
2125 S. First St., Champaign, IL 61820 (217)278-5800
2009 Mall St., Collinsville, IL 62234 (618)346-5120

9511 Harrison St., Des Plaines, IL 60016 (847)294-4000
5407 N. University St., Arbor 113, Peoria, IL 61614 (309)693-5462
2309 W. Main St., Suite 116, Marion, IL 62959 (618)993-7200
100 W. Randolph, Suite 10-300, Chicago, IL 60601 (312)814-6026

PLEASE PRINT ON RECYCLED PAPER

The Illinois EPA has attached a Draft No Further Remediation (NFR) letter for your files and to assist in the redevelopment process for the site. If you have any questions, please contact me at 217/782-9283.

Sincerely,



Rhett M. Rossi
Voluntary Site Remediation Unit
Remedial Project Management Section
Bureau of Land

cc: Pioneer Environmental Services, LLC
Attn: Ms. Natalie J. Struble
700 N. Sacramento Blvd., Suite 101
Chicago, IL 60612

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217)782-2829
PAT QUINN, GOVERNOR LISA BONNETT, DIRECTOR

(217) 524-3300

May 29, 2014

CERTIFIED MAIL

City of Chicago Department of Fleet and Facility Management
Attn: Ms. Kimberly Worthington
30 North LaSalle Street, Suite 300
Chicago, IL 60602-2575

Re: 0316685080/Cook County
Chicago/Walgreens 0170
Site Remediation Program/Technical Reports
No Further Remediation Letter

Dear Ms. Worthington:

NOTICE: Remedial actions may not be completed at this remediation site, and this draft No Further Remediation Letter does not release any person from further responsibility for remedial actions at the site in accordance with Section 58.10 of the Act. The terms and conditions contained in this draft No Further Remediation Letter are those proposed for inclusion in a final No Further Remediation Letter that may be issued by the Illinois Environmental Protection Agency. After final remedial actions have been completed and a Remedial Action Completion Report has been submitted for this draft No Further Remediation letter has been approved by the Remediation Applicant, issuance of the final NFR letter will be recommended.

DRAFT

The *COMPLETION REPORT TITLE* (received DATE/Log No.), as prepared by Pioneer Environmental Services, LLC for the above referenced Remediation Site, has been reviewed and approved by the Illinois Environmental Protection Agency ("Illinois EPA"). This Report demonstrates the remediation objectives approved for the site in accordance with 35 Illinois Administrative Code Part 742, including the indoor inhalation pathway, are above the existing concentrations of regulated substances and that the remedial action was completed in accordance with the *Remedial Action Plan* (received May 1, 2014/Log No.14-56534) and 35 Illinois Administrative Code Part 740.

The Remediation Site, consisting of 10.5 acres, is located at the Northwest corner of West 63rd Street and South Halsted Street, Chicago, Illinois. Pursuant to Section 58.10 of the Illinois Environmental Protection Act ("Act") (415 ILCS 5/1 et seq.), your request for a no further remediation determination is granted under the conditions and terms specified in this letter. The Remediation Applicant, as identified on the Illinois EPA's Site Remediation Program DRM-1 Form (May 1, 2014/Log No.14-56534), is the City of Chicago Department of Fleet and Facility Management.

DRAFT

This comprehensive No Further Remediation Letter ("Letter") signifies a release from further responsibilities under the Act for the performance of the approved remedial action. This Letter shall be considered prima facie evidence that the Remediation Site described in the attached Illinois EPA Site Remediation Program Environmental Notice and shown in the attached Site Base Map does not constitute a threat to human health and the environment and does not require further remediation under the Act if utilized in accordance with the terms of this Letter.

Conditions and Terms of Approval

Level of Remediation and Land Use Limitations

1) The recognized environmental conditions characterized by the focused site investigation and successfully addressed, consist of the contaminants of concern identified in the attached Table A.

2) The Remediation Site is restricted to industrial/commercial land use.

3) The land use specified in this Letter may be revised if:

   a) Further investigation or remedial action has been conducted that documents the attainment of objectives appropriate for the new land use; and

   b) A new Letter is obtained and recorded in accordance with Title XVII of the Act and regulations adopted thereunder.

DRAFT

Preventive, Engineering, and Institutional Controls

The implementation and maintenance of the following controls are required as part of the approval of the remediation objectives for this Remediation Site.

Preventive Controls:

4) At a minimum, a safety plan should be developed to address possible worker exposure in the event that any future excavation and construction activities may occur within the contaminated soil. Any excavation within the contaminated soil will require implementation of a safety plan consistent with NIOSH Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities, OSHA regulations (particularly in 29 CFR 1910 and 1926), state and local regulations, and other USEPA guidance. Soil excavated below 3 feet must be returned to the same depth from which it was excavated or properly managed or disposed in accordance with applicable state and federal regulations.

Engineering Controls:

5) The asphalt and/or concrete barrier, as shown on the attached Site Base Map, must remain over the contaminated soils. This asphalt barrier must be properly maintained as an engineered barrier to inhibit ingestion of the contaminated media.

6) The clean soil barrier, which is comprised of a minimum of 18 inches of clean soil underlain by a geotextile membrane covering the area shown on the attached Site Base Map, must remain over the contaminated soils. This clean soil barrier must be properly maintained as an engineered barrier to inhibit ingestion of the contaminated media.

7) The building, as shown on the attached Site Base Map, must remain over the contaminated soils. This building must be properly maintained as an engineered barrier to inhibit ingestion of the contaminated media.

Institutional Controls:

8) Any existing buildings or any future buildings constructed on the site must contain a full concrete slab-on-grade floor or full concrete basement floor and walls with no sumps.

Other Terms

9) Areas outside the Remediation Site boundaries or specific engineered barrier locations, as shown in the Site Base Map, are not subject to any other institutional or engineered barrier controls.

DRAFT

10) Where the Remediation Applicant is not the sole owner of the Remediation Site, the Remediation Applicant shall complete the attached *Property Owner Certification of the No Further Remediation Letter under the Site Remediation Program* Form. This certification, by original signature of each property owner, or the authorized agent of the owner(s), of the Remediation Site or any portion thereof who is not a Remediation Applicant shall be recorded along with this Letter.

11) Further information regarding this Remediation Site can be obtained through a written request under the Freedom of Information Act (5 ILCS 140) to:

Illinois Environmental Protection Agency
Attn: Freedom of Information Act Officer
Division of Records Management #16
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276

12) Pursuant to Section 58.10(f) of the Act (415 ILCS 5/58.10(f)), should the Illinois EPA seek to void this Letter, the Illinois EPA shall provide notice to the current title holder and to the Remediation Applicant at the last known address. The notice shall specify the cause for the voidance, explain the provisions for appeal, and describe the facts in support of this cause. Specific acts or omissions that may result in the voidance of the Letter under Sections 58.10(e)(1)-(7) of the Act (415 ILCS 5/58.10(e)(1)-(7)) include, but shall not be limited to:

a) Any violation of institutional controls or the designated land use restrictions;

b) The failure to operate and maintain preventive or engineering controls or to comply with any applicable groundwater monitoring plan;

c) The disturbance or removal of contamination that has been left in-place in accordance with the Remedial Action Plan. Access to soil contamination may be allowed if, during and after any access, public health and the environment are protected consistent with the Remedial Action Plan;

d) The failure to comply with the recording requirements for this Letter;

e) Obtaining the Letter by fraud or misrepresentation;

f) Subsequent discovery of contaminants, not identified as part of the investigative or remedial activities upon which the issuance of the Letter was based, that pose a threat to human health or the environment;

g) The failure to pay the No Further Remediation Assessment Fee within forty-five (45) days after receiving a request for payment from the Illinois EPA;

h) The failure to pay in full the applicable fees under the Review and Evaluation Services Agreement within forty-five (45) days after receiving a request for payment from the Illinois EPA.

DRAFT

13) Pursuant to Section 58.10(d) of the Act, this Letter shall apply in favor of the following persons:

a) City of Chicago Department of Fleet and Facility Management;

b) The owner and operator of the Remediation Site;

c) Any parent corporation or subsidiary of the owner of the Remediation Site;

d) Any co-owner, either by joint-tenancy, right of survivorship, or any other party sharing a relationship with the owner of the Remediation Site;

e) Any holder of a beneficial interest of a land trust or inter vivos trust, whether revocable or irrevocable, involving the Remediation Site;

f) Any mortgagee or trustee of a deed of trust of the owner of the Remediation Site or any assignee, transferee, or any successor-in-interest thereto;

g) Any successor-in-interest of the owner of the Remediation Site;

h) Any transferee of the owner of the Remediation Site whether the transfer was by sale, bankruptcy proceeding, partition, dissolution of marriage, settlement or adjudication of any civil action, charitable gift, or bequest;

i) Any heir or devisee of the owner of the Remediation Site;

j) Any financial institution, as that term is defined in Section 2 of the Illinois Banking Act and to include the Illinois Housing Development Authority, that has acquired the ownership, operation, management, or control of the Remediation Site through foreclosure or under the terms of a security interest held by the financial institution, under the terms of an extension of credit made by the financial institution, or any successor-in-interest thereto; or

k) In the case of a fiduciary (other than a land trustee), the estate, trust estate, or other interest in property held in a fiduciary capacity, and a trustee, executor, administrator, guardian, receiver, conservator, or other person who holds the remediated site in a fiduciary capacity, or a transferee of such party.

14) This letter, including all attachments, must be recorded as a single instrument within forty-five (45) days of receipt with the Office of the Recorder of Cook County. For recording purposes, the Illinois EPA Site Remediation Program Environmental Notice attached to this Letter should be the first page of the instrument filed. This Letter shall not be effective until officially recorded by the Office of the Recorder of Cook County in accordance with Illinois law so that it forms a permanent part of the chain of title for the Walgreens 0170 property.

15) Within thirty (30) days of this Letter being recorded by the Office of the Recorder of Cook County, a certified copy of this Letter, as recorded, shall be obtained and submitted to the Illinois EPA to:

DRAFT

Mr. Robert E. O'Hara
Illinois Environmental Protection Agency
Bureau of Land/RPMS #24
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276

16) In accordance with Section 58.10(g) of the Act, a No Further Remediation Assessment Fee based on the costs incurred for the Remediation Site by the Illinois EPA for review and evaluation services will be applied in addition to the fees applicable under the Review and Evaluation Services Agreement. Request for payment of the No Further Remediation Assessment Fee will be included with the billing statement.

If you have any questions regarding the Walgreens 0170 property, you may contact the Illinois EPA project manager, Rhett M. Rossi at 217 524 3300.

Sincerely,

Joyce L. Munie, P.E., Manager
Remedial Project Management Section
Division of Remediation Management
Bureau of Land

Attachments: Illinois EPA Site Remediation Program Environmental Notice
Site Base Map
Property Owner Certification of No Further Remediation Letter under the Site Remediation Program Form
Instructions for Filing the NFR Letter

cc: Pioneer Environmental Services, LLC

Attn: Ms. Natalie J. Struble
799 North Sacramento Blvd., Suite 101
Chicago, IL 60612

Bureau of Land File
Mr. Robert O'Hara

DRAFT

Commissioner, Urban Management and Brownfields Redevelopment Division
Department of Fleet and Facility Management
30 North LaSalle Street, Suite 200
Chicago, Illinois 60602-2575

PREPARED BY:

Name: City of Chicago Department of Fleet and Facility Management
Kimberly Worthington

Address: 30 North LaSalle Street, Suite 300
Chicago, IL 60602-2575

RETURN TO:

Name: City of Chicago Department of Fleet and Facility Management
Kimberly Worthington

Address: 30 North LaSalle Street, Suite 300
Chicago, IL 60602-2575

THE ABOVE SPACE FOR RECORDER'S OFFICE

DRAFT

This Environmental No Further Remediation Letter must be submitted by the remediation applicant within 45 days of its receipt, to the Office of the Recorder of Cook County.

Illinois State EPA Number: 0316685080

The City of Chicago Department of Fleet and Facility Management, the Remediation Applicant, whose address is 30 North LaSalle Street, Suite 300, Chicago, IL 60602-2575 has performed investigative and/or remedial activities for the remediation site depicted on the attached Site Base Map and identified by the following:

1. Legal description or Reference to a Plat Showing the Boundaries: INSERT

2. Common Address: Northwest corner of West 63rd Street and South Halsted Street, Chicago, IL

3. Real Estate Tax Index/Parcel Index Number: INSERT

4. Remediation Site Owner: The City of Chicago Department of Fleet and Facility Management

5. Land Use: Industrial/Commercial

6. Site Investigation: Comprehensive

See NFR letter for other terms.

(Illinois EPA Site Remediation Program Environmental Notice)

Site Base Map
0316685080 – Cook County
Chicago/Walgreens 0170
Site Remediation Program

DRAFT

PROPERTY OWNER CERTIFICATION OF THE NFR LETTER UNDER THE SITE REMEDIATION PROGRAM

Where the Remediation Applicant (RA) is not the sole owner of the remediation site, the RA shall obtain the certification by original signature of each owner, or authorized agent of the owner(s), of the remediation site or any portion thereof who is not an RA. The property owner(s), or the duly authorized agent of the owner(s) must certify, by original signature, the statement appearing below. This certification shall be recorded in accordance with Illinois Administrative Code 740.620.

Include the full legal name, title, the company, the street address, the city, the state, the ZIP code, and the telephone number of all other property owners. Include the site name, street address, city, ZIP code, county, Illinois inventory identification number and real estate tax index/parcel index number.

A duly authorized agent means a person who is authorized by written consent or by law to act on behalf of a property owner including, but not limited to:

1. For corporations, a principal executive officer of at least the level of vice-president;
2. For a sole proprietorship or partnership, the proprietor or a general partner, respectively; and
3. For a municipality, state or other public agency, the head of the agency or ranking elected official.

For multiple property owners, attach additional sheets containing the information described above, along with a signed, dated certification for each. All property owner certifications must be recorded along with the attached NFR letter.

DRAFT

Property Owner Information

Owner's Name: _____
Title: _____
Company: _____
Street Address: _____
City: _____ State: _____ Zip Code: _____ Phone: _____

Site Information

Site Name: _____
Site Address: _____
City: _____ State: _____ Zip Code: _____ County: _____
Illinois inventory identification number: _____
Real Estate Tax Index/Parcel Index No. _____

I hereby certify that I have reviewed the attached No Further Remediation Letter and that I accept the terms and conditions and any land use limitations set forth in the letter.

Owner's Signature: _____ Date: _____

SUBSCRIBED AND SWORN TO BEFORE ME
this _____ day of _____, 20__

_____
Notary Public

The Illinois EPA is authorized to require this information under Sections 415 ILCS 5/58 - 58.12 of the Environmental Protection Act and regulations promulgated thereunder. If the Remediation Applicant is not also the sole owner of the remediation site, this form must be completed by all owners of the remediation site and recorded with the NFR Letter. Failure to do so may void the NFR Letter. This form has been approved by the Forms Management Center. All information submitted to the Site Remediation Program is available to the public except when specifically designated by the Remediation Applicant to be treated confidentially as a trade secret or secret process in accordance with the Illinois Compiled Statutes, Section 7(a) of the Environmental Protection Act, applicable Rules and Regulations of the Illinois Pollution Control Board and applicable Illinois EPA rules and guidelines.

Notice to Remediation Applicant

Please follow these instructions when filing the NFR letter with the County Recorder's Office

Instructions for Filing the NFR Letter

The following documents must be filed:

A. Body of the NFR Letter (contains appropriate terms and conditions, tables, etc.)
B. Attachments to NFR letter
- Illinois EPA Site Remediation Program Environmental Notice (Legal Description and PIN of property)
- Maps of the site
- Table A: Regulated Substances of Concern (if applicable.)
- Property Owner Certification

C. A copy of the ordinance, if applicable, used to address groundwater contamination

DRAFT

1. Place the Illinois EPA Site Remediation Program Environmental Notice on top of the NFR prior to giving it to the Recorder.

2. If you are not the owner (record title holder) of the property on the date of filing of this NFR, you must attach a **completed** owner's certification form signed by the owner of the property at the time of filing (e.g., if the property recently sold, the new owner must sign).

3. If any of the terms and conditions of the NFR letter references a groundwater ordinance, you must record a copy of the groundwater ordinance with the NFR letter.

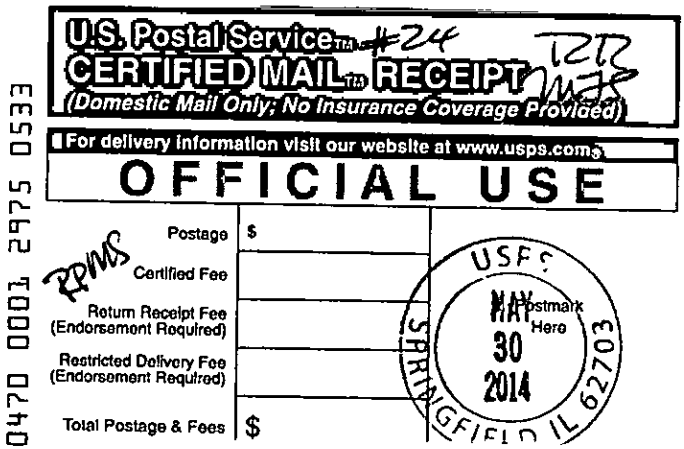
4. If any of the terms and conditions of the NFR letter references a highway agreement, you must record the highway agreement if specifically required by the municipality granting the agreement.

5. Within thirty (30) days of this NFR Letter being recorded by the Office of the Recorder of the County in which the property is located, a certified copy of this Letter, as recorded, shall be obtained and submitted to the Illinois EPA to:

Robert E. O'Hara
Illinois Environmental Protection Agency
Bureau of Land/RPMS
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276

6. **Remove this page from the NFR letter, prior to recording.**

If you have any questions call (217) 524-3300 and speak with the "project manager on-call" in the Site Remediation Program.



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RPMS

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USPS MAY 30 2014 SPRINGFIELD IL 62703 Postmark Here

City of Chicago Dept. of Fleet and Facility Mgmt.
Attn: Ms. Kimberly Worthington
30 North LaSalle Street
Chicago, IL 60602-2575

RPMS #24

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you. RR MJS
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

City of Chicago Dept. of Fleet and Facility Mgmt.
Attn: Ms. Kimberly Worthington
30 North LaSalle Street
Chicago, IL 60602-2575

COMPLETE THIS SECTION ON DELIVERY

A. Signature [signature] ☐ Agent ☒ Addressee

B. Received by (Printed Name) KIMBERLY WORTHINGTON

C. Date of Delivery 6/9

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☒ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number
(Transfer from service label) 7012 0470 0001 2975 0533

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

UNITED STATES POSTAL SERVICE

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Postage & Fees Paid
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Illinois Environmental
Protection Agency
P.O. BOX 19276 MAIL CODE # 24
SPRINGFIELD, IL 62794-9276

PIONEER ENVIRONMENTAL SERVICES, LLC
700 N Sacramento Blvd. Suite 101
Chicago IL 60612
773.722.9200 Phone - 773.722.9201 Fax
www.pioneerEES.com

April 21, 2015

Illinois Environmental Protection Agency
Division of Remediation Management
Remedial Project Management Section
Site Remediation Program
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276
Attn: Mr. Rhett Rossi

Re: Response to IEPA Comment Letter/RAP Addendum
LPC# 0316685080- Cook County
Halsted Parkways
NWX West 63rd Street & South Halsted Street
Chicago, Illinois 60621

Dear Mr. Rossi:

The purpose of this letter is to provide a response to the Illinois EPA's comment presented in a letter dated May 29, 2014, which conditionally approved the *Comprehensive Site Investigation Report/Remediation Objectives Report/Remedial Action Plan (CSIR/ROR/RAP)* dated April 29, 2014, prepared by Pioneer Environmental Services, LLC (Pioneer) for the Halsted Parkways site located at the northwest corner of West 63rd Street and South Halsted Street (aka 832 West 63rd Street and 6250 South Halsted Street). The following presents Pioneer's response to the Illinois EPA's letter dated May 29, 2014, and should be considered a RAP Addendum.

IEPA Comment (summarized): *Within the above referenced reports, it has been indicated that an alternative barrier composed of 18 inches of clean soil underlain by a geotextile membrane will be used in green space and landscaped areas of the site. Please note that additional information must be provided to the Illinois EPA which details the specifics of which geotextile membrane will be used at the site.*

Pioneer Response: Pioneer proposes the use of a geotextile product known as "TenCate Mirafi 140N" which will be installed and then capped by 18 inches of clean soil as the alternative barrier to be used in green spaces and landscaped areas of the subject site (Figure 1). Mirafi 140N is a black nonwoven geotextile composed of polypropylene fibers. Attached is a document detailing the specifications of the product. In addition, in order to allow the use of Mirafi 140N, Pioneer requests that an industrial/commercial land use restriction be included in the Conditions and Terms of Approval of the NFR letter. As a note, the redevelopment of the Remediation Site will proceed in various stages, consequently, multiple final NFR letters will be requested from the Agency as the redevelopment of this site is completed. The first stage will consist of general earthwork and site preparation work throughout the entire Remediation Site, as needed, to prepare the site for the known planned redevelopment work. The first phase of the known planned redevelopment work includes the installation of the stormwater detention vaults along West 63rd Parkway and the retail/commercial redevelopment of the Retail Development parcel (excluding Outlots A and B). Therefore, after all engineered barriers are installed at these locations, all required documentation and Remedial Action Completion Reports (RACRs) will be submitted to request final NFR letters for those specific parcels. As the redevelopment activities progress and are completed for the remaining areas that comprise

the Remediation Site, additional RACRs will be prepared and submitted to the Agency to request final NFR letters at that time. If, during future site redevelopments, a site owner wishes to use another type of geotextile with 18 inches of clean soil as an alternate engineered barrier, an amended RAP will be submitted to the IEPA for approval. Please refer to the attached Figure 1 for an illustration of the expected staged approach for obtaining final NFR letters at the Remediation Site. For an illustration of the areas where engineered barriers composed of a geotextile and 18 inches of clean soil are proposed to be installed, please refer to the attached Figure 1.

The proposed site improvements will be utilized as engineered barriers which will consist of two components: asphalt/concrete pavement/pads, and an 18-inch clean soil barrier over a geotextile. As allowed by Section 742.1105(d), the second component of the engineered barrier will consist of an 18-inch clean soil cap and geotextile that will be installed in all unpaved green spaces. The geotextile will serve both as a physical obstruction and as an identification marker for impacted soils that will remain below that layer. Although the proposed clean soil barrier does not equal the default thickness of three feet, it is believed to be equally protective for the following main reasons: (1) the property will mainly be used for commercial purposes in an urban setting where it is reasonable to expect that only limited and short-term exposure to green space areas will occur; (2) the green space areas will be relatively limited to landscaped islands within and around parking lots and buildings; and (3) the green spaces will be professionally managed and maintained ensuring that the appropriate steps will be taken regarding any breaches and restoration of the barrier if disturbed. Pioneer believes this proposed clean soil cap will be sufficient to eliminate the soil ingestion exposure route in unpaved green spaces at the Remediation Site.

Pioneer requests that the proposed geotextile product described herein and 18 inches of clean soil be approved for use as an alternate engineered barrier throughout the entire Remediation Site.

Pioneer appreciates your time in review of this matter, and please do not hesitate to contact me at (773) 722-9200 x208 if you have any questions or comments regarding this project.

Respectfully Submitted,
Pioneer Environmental Services, LLC



Natalie Struble
Project Manager

Attachments:
Figure 1: Proposed Engineered Barriers
Site Base Map
IEPA Comment Letter
TenCate Mirafi 140N Geotextile Specification Sheet
Sample of Mirafi 140N Geotextile

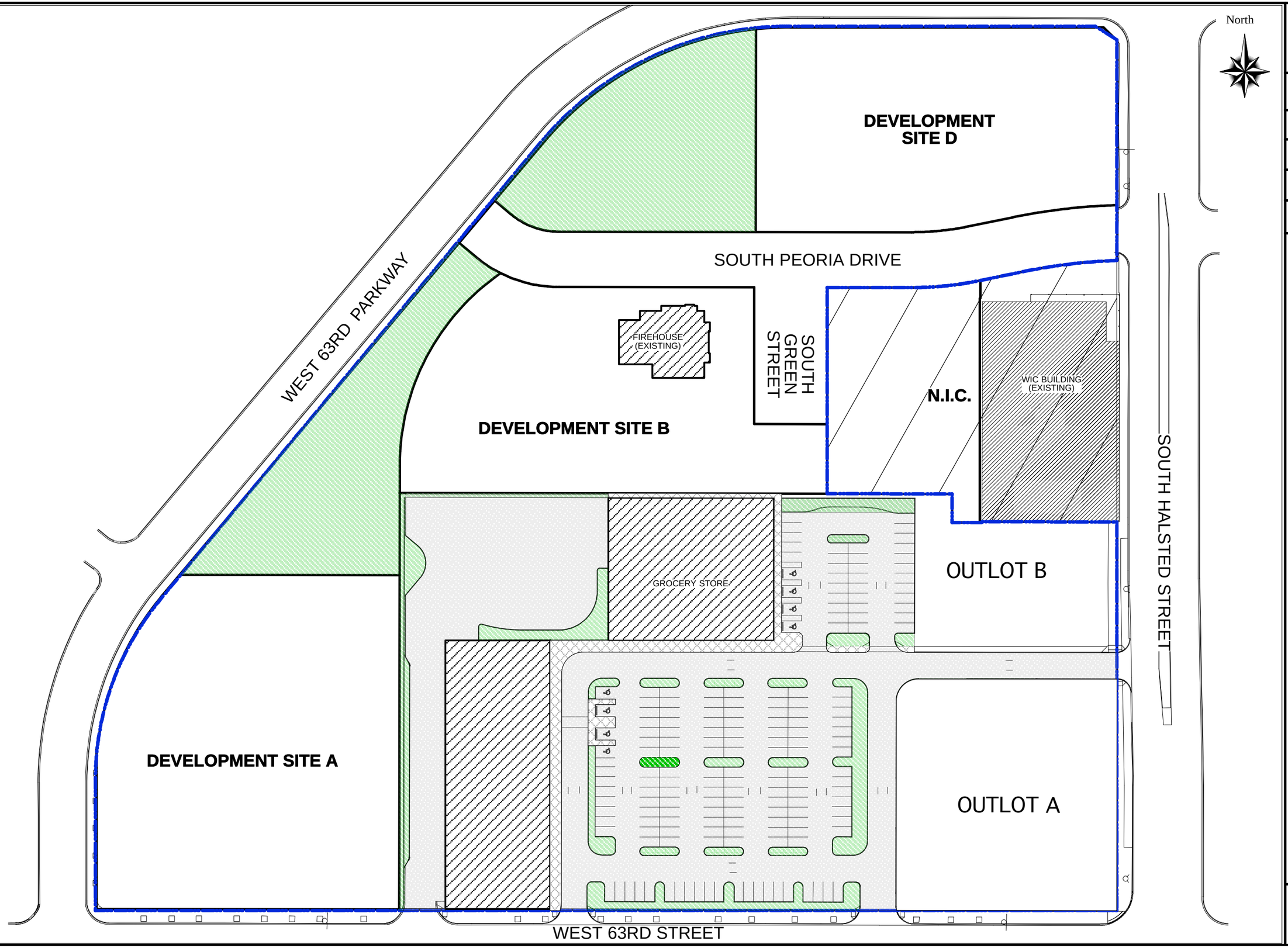


FIGURE 1
Proposed Engineered Barriers
Halsted Parkways
NWC West 63rd Street
& South Halsted Street
Chicago, IL

Scale: 1" = 80'
0' 80'

Drawn by: Kendrick Ting

Job No: 12-0646-103

Date: April 2015

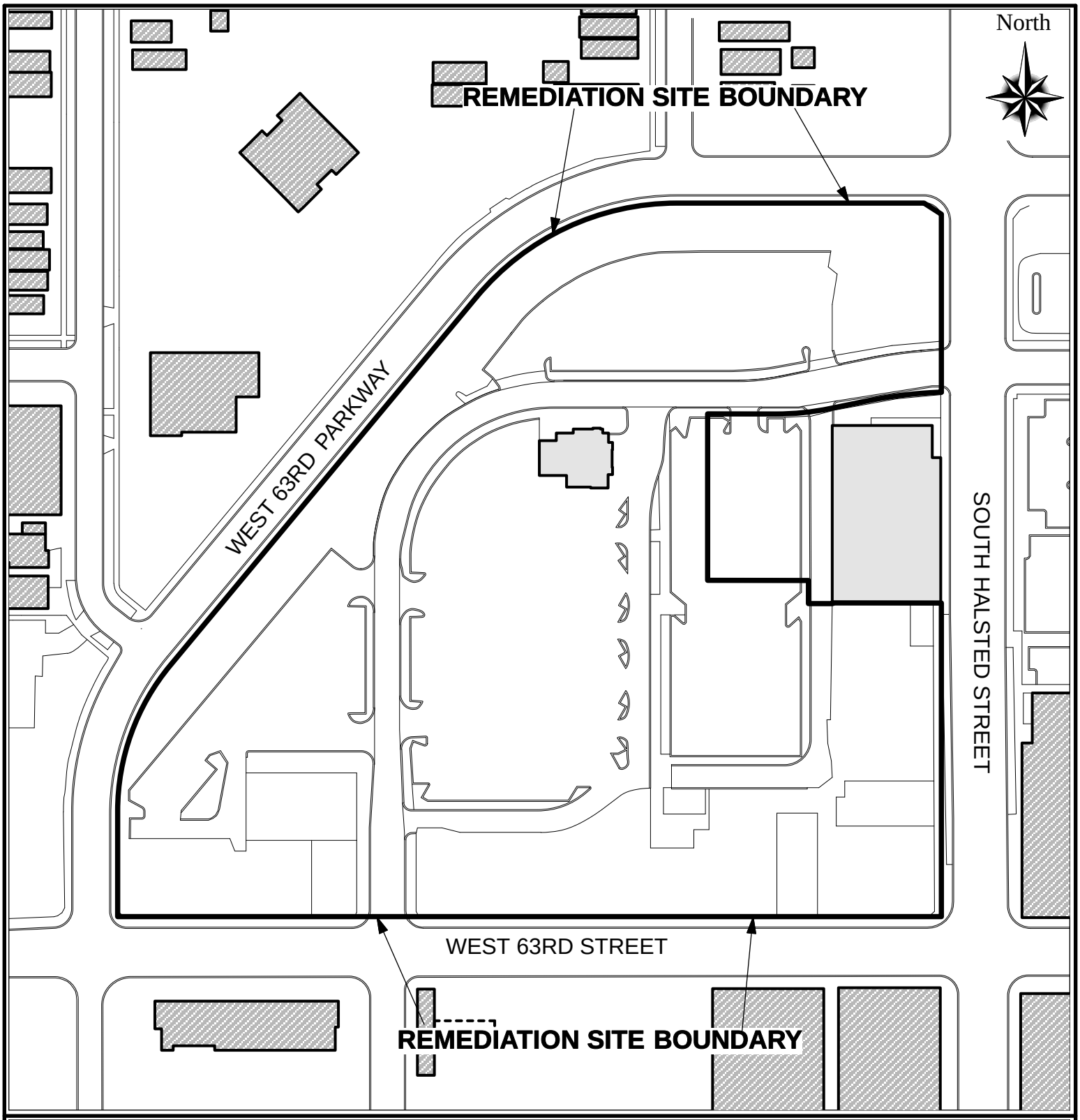
Checked by: Natalie Struble

Legend:
- Remediation Site Boundary
- Asphalt Engineered Barrier
- 18" Soil Cover With Geo-Fabric Engineered Barrier
- Concrete Engineered Barrier (Building Foundation)
- Concrete Engineered Barrier

PIONEER
ENGINEERING & ENVIRONMENTAL SERVICES

SITE BASE MAP

LPC# NOT YET ASSIGNED - COOK COUNTY
CHICAGO / NWX WEST 63RD STREET & SOUTH HALSTED STREET
SITE REMEDIATION / TECHNICAL REPORTS



Legend:

Remediation Site Boundary

Scale: 1" = 150'

0' 150'

Address:

NWX WEST 63RD STREET & SOUTH HALSTED STREET

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217)782-2829
PAT QUINN, GOVERNOR LISA BONNETT, DIRECTOR

217/524-3300

May 29, 2014

7012 0470 0001 2975 0533

City of Chicago Department of Fleet and Facility Management
Attn: Ms. Kimberly Worthington
30 North LaSalle Street
Chicago, IL 60602-2575

Re: 0316685080—Cook County
Chicago/Walgreens 0170
Site Remediation/Technical Reports

Dear Ms. Worthington:

The Illinois Environmental Protection Agency (Illinois EPA) has conducted a review of your *Comprehensive Site Investigation Report/Remedial Objectives Report/Remedial Action Plan (log # 14-56534)* for the Walgreens 0170 site, dated May 1, 2014. The Illinois EPA conditionally approves the reports and provides the following information for your files.

Within the above referenced reports, it has been indicated that an alternative barrier composed of 18 inches of clean soil underlain by a geotextile membrane will be used in green space and landscaped areas of the site. Please note that additional information must be provided to the Illinois EPA which details the specifics of which geotextile membrane will be used at the site. This alternative barrier information must be provided for review and approval before it is utilized at the site. Since it appears that the site will eventually be broken up into numerous parcels, each of which may, or may not, have a use for this alternative barrier, the Illinois EPA recommends that an amended Remedial Action Plan with this information, if necessary, be provided for each parcel. Once the aforementioned alternative barrier information has been submitted and approved, a Remedial Action Completion Report can be provided for review and approval for each parcel.

The Illinois EPA has attached a Draft No Further Remediation (NFR) letter for your files and to assist in the redevelopment process for the site. If you have any questions, please contact me at 217/782-9283.

Sincerely,

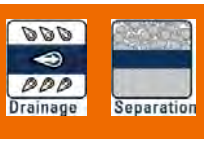


Rhett M. Rossi
Voluntary Site Remediation Unit
Remedial Project Management Section
Bureau of Land

cc: Pioneer Environmental Services, LLC
Attn: Ms. Natalie J. Struble
700 N. Sacramento Blvd., Suite 101
Chicago, IL 60612

TENCATE GEOSYNTHETICS
Americas

Mirafi® 140N



Mirafi® 140N is a nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® 140N is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids. Mirafi® 140N meets AASHTO M288-06 Class 3 for Elongation > 50%.

TenCate Geosynthetics Americas Laboratories are accredited by a2La (The American Association for Laboratory Accreditation) and Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP). NTPEP Listed

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs (N)	120 (534)	120 (534)
Grab Tensile Elongation	ASTM D4632	%	50	50
Trapezoid Tear Strength	ASTM D4533	lbs (N)	50 (223)	50 (223)
CBR Puncture Strength	ASTM D6241	lbs (N)	310 (1380)	
			Maximum Opening Size	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	70 (0.212)	
			Minimum Roll Value	
Permittivity	ASTM D4491	sec^{-1}	1.7	
Flow Rate	ASTM D4491	$gal/min/ft^2$ ($l/min/m^2$)	135 (5500)	
			Minimum Test Value	
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	70	

[1] ASTM D4751: AOS is a Maximum Opening Diameter Value
[2] Modified, Minimum Test Value

Physical Properties	Unit	Roll Sizes	
Roll Dimensions (width x length)	ft (m)	12.5 x 360 (3.8 x 110)	15 x 360 (4.5 x 110)
Roll Area	yd^2 (m^2)	500 (418)	600 (502)

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Testing Lab 1291.01 & 1291.02

PIONEER ENVIRONMENTAL SERVICES, LLC
700 N Sacramento Blvd. Suite 101
Chicago IL 60612
773.722.9200 Phone - 773.722.9201 Fax
www.pioneerEES.com

April 30, 2015

Illinois Environmental Protection Agency
Division of Remediation Management
Remedial Project Management Section
Site Remediation Program
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276
Attn: Mr. Rhett Rossi

Re: DRAFT Response to IEPA Comment Letter/RAP Addendum
LPC# 0316685080- Cook County
Halsted Parkways
NWX West 63rd Street & South Halsted Street
Chicago, Illinois 60621

Dear Mr. Rossi:

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IEPA Comment (summarized): *Within the above referenced reports, it has been indicated that an alternative barrier composed of 18 inches of clean soil underlain by a geotextile membrane will be used in green space and landscaped areas of the site. Please note that additional information must be provided to the Illinois EPA which details the specifics of which geotextile membrane will be used at the site.*

Pioneer Response: Pioneer proposes the use of geotextile products known as "TenCate Mirafi 140N" and "TenCate Mirafi 180N/O" which will be installed and then capped by 18 inches of clean soil as the alternative barrier to be used in green spaces and landscaped areas of the subject site. Specifically, TenCate Mirafi 140N will be used in two landscaped portions on the northwest portion of the site, and TenCate Mirafi 180N/O will be used in small landscaped areas in the southeast retail portion of the site (see Figure 1). Mirafi 140N is a black nonwoven geotextile composed of polypropylene fibers. Mirafi 180N/O is an orange nonwoven geotextile composed of polypropylene fibers. Attached are documents detailing the specifications of the products. In addition, in order to allow the use of Mirafi 140N and 180N/O, Pioneer requests that an industrial/commercial land use restriction be included in the Conditions and Terms of Approval of the NFR letter. As a note, the redevelopment of the Remediation Site will proceed in various stages, consequently, multiple final NFR letters will be requested from the Agency as the redevelopment of this site is completed. The first stage will consist of general earthwork and site preparation work throughout the entire Remediation Site, as needed, to prepare the site for the known planned redevelopment work. The first phase of the known planned redevelopment work includes the installation of the stormwater detention vaults along West 63rd Parkway and the retail/commercial redevelopment of the Retail Development parcel (excluding Outlots

A and B). Therefore, after all engineered barriers are installed at these locations, all required documentation and Remedial Action Completion Reports (RACRs) will be submitted to request final NFR letters for those specific parcels. As the redevelopment activities progress and are completed for the remaining areas that comprise the Remediation Site, additional RACRs will be prepared and submitted to the Agency to request final NFR letters at that time. If, during future site redevelopments, a site owner wishes to use another type of geotextile with 18 inches of clean soil as an alternate engineered barrier, an amended RAP will be submitted to the IEPA for approval. For an illustration of the areas where engineered barriers composed of a geotextile and 18 inches of clean soil are proposed to be installed, please refer to the attached Figure 1.

The proposed site improvements will be utilized as engineered barriers which will consist of two components: asphalt/concrete pavement/pads, and an 18-inch clean soil barrier over a geotextile. As allowed by Section 742.1105(d), the second component of the engineered barrier will consist of an 18-inch clean soil cap and geotextile that will be installed in all unpaved green spaces. The geotextile will serve both as a physical obstruction and as an identification marker for impacted soils that will remain below that layer. Although the proposed clean soil barrier does not equal the default thickness of three feet, it is believed to be equally protective for the following main reasons: (1) the property will mainly be used for commercial purposes in an urban setting where it is reasonable to expect that only limited and short-term exposure to green space areas will occur; (2) the green space areas will be relatively limited to landscaped islands within and around parking lots and buildings; and (3) the green spaces will be professionally managed and maintained ensuring that the appropriate steps will be taken regarding any breaches and restoration of the barrier if disturbed. Pioneer believes this proposed clean soil cap will be sufficient to eliminate the soil ingestion exposure route in unpaved green spaces at the Remediation Site.

Pioneer requests that the proposed geotextile product described herein and 18 inches of clean soil be approved for use as an alternate engineered barrier throughout the entire Remediation Site.

Pioneer appreciates your time in review of this matter, and please do not hesitate to contact me at (773) 722-9200 x208 if you have any questions or comments regarding this project.

Respectfully Submitted,
Pioneer Environmental Services, LLC



Natalie Struble
Project Manager

Attachments: *Figure 1: Proposed Engineered Barriers*
Site Base Map
IEPA Comment Letter
TenCate Mirafi 140N Geotextile Specification Sheet
TenCate Mirafi 180N/O Geotextile Specification Sheet

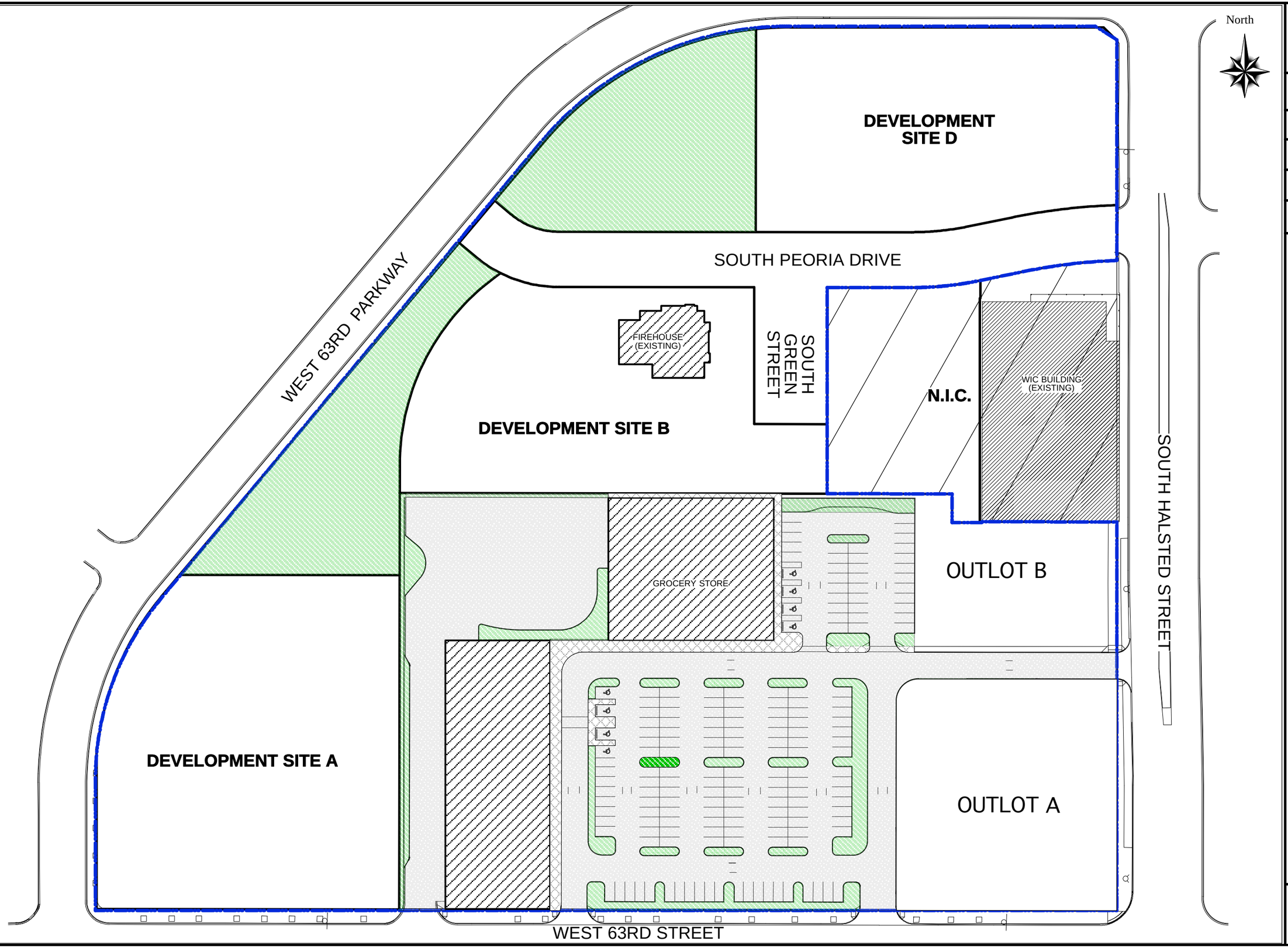


FIGURE 1
Proposed Engineered Barriers
Halsted Parkways
NWC West 63rd Street
& South Halsted Street
Chicago, IL

Scale: 1" = 80'
0' 80'

Drawn by: Kendrick Ting

Job No: 12-0646-103

Date: April 2015

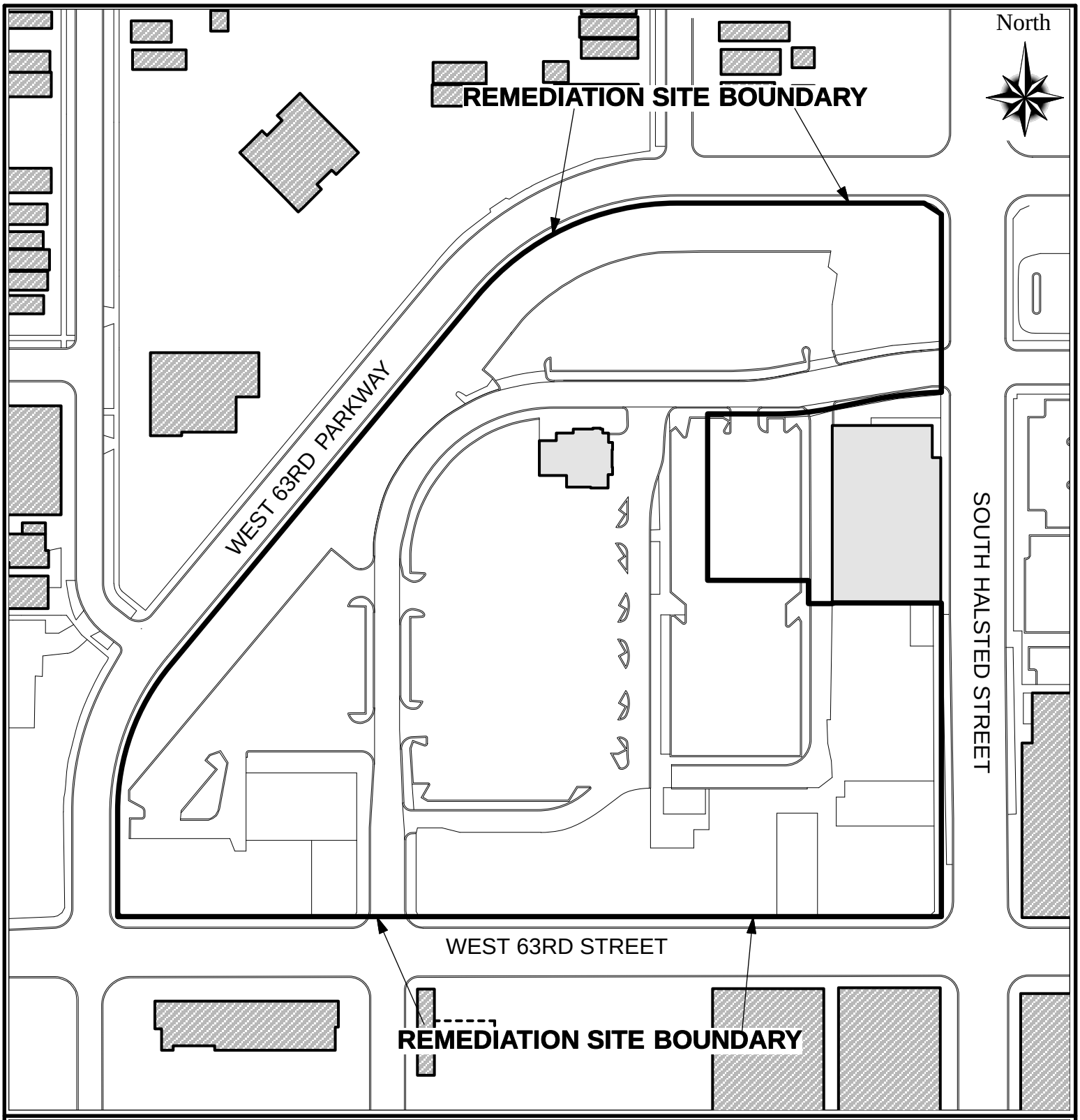
Checked by: Natalie Struble

Legend:
- Remediation Site Boundary
- Asphalt Engineered Barrier
- 18" Soil Cover With Geo-Fabric Engineered Barrier
- Concrete Engineered Barrier (Building Foundation)
- Concrete Engineered Barrier

PIONEER
ENGINEERING & ENVIRONMENTAL SERVICES

SITE BASE MAP

LPC# NOT YET ASSIGNED - COOK COUNTY
CHICAGO / NWX WEST 63RD STREET & SOUTH HALSTED STREET
SITE REMEDIATION / TECHNICAL REPORTS



Legend:

Remediation Site Boundary

Scale: 1" = 150'

0' 150'

Address:

NWX WEST 63RD STREET & SOUTH HALSTED STREET

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217)782-2829
PAT QUINN, GOVERNOR LISA BONNETT, DIRECTOR

217/524-3300

May 29, 2014

7012 0470 0001 2975 0533

City of Chicago Department of Fleet and Facility Management
Attn: Ms. Kimberly Worthington
30 North LaSalle Street
Chicago, IL 60602-2575

Re: 0316685080—Cook County
Chicago/Walgreens 0170
Site Remediation/Technical Reports

Dear Ms. Worthington:

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The Illinois EPA has attached a Draft No Further Remediation (NFR) letter for your files and to assist in the redevelopment process for the site. If you have any questions, please contact me at 217/782-9283.

Sincerely,

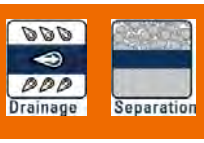


Rhett M. Rossi
Voluntary Site Remediation Unit
Remedial Project Management Section
Bureau of Land

cc: Pioneer Environmental Services, LLC
Attn: Ms. Natalie J. Struble
700 N. Sacramento Blvd., Suite 101
Chicago, IL 60612

TENCATE GEOSYNTHETICS
Americas

Mirafi® 140N



Mirafi® 140N is a nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® 140N is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids. Mirafi® 140N meets AASHTO M288-06 Class 3 for Elongation > 50%.

TenCate Geosynthetics Americas Laboratories are accredited by a2La (The American Association for Laboratory Accreditation) and Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP). NTPEP Listed

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs (N)	120 (534)	120 (534)
Grab Tensile Elongation	ASTM D4632	%	50	50
Trapezoid Tear Strength	ASTM D4533	lbs (N)	50 (223)	50 (223)
CBR Puncture Strength	ASTM D6241	lbs (N)	310 (1380)	
			Maximum Opening Size	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	70 (0.212)	
			Minimum Roll Value	
Permittivity	ASTM D4491	sec^{-1}	1.7	
Flow Rate	ASTM D4491	$gal/min/ft^2$ ($l/min/m^2$)	135 (5500)	
			Minimum Test Value	
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	70	

[1] ASTM D4751: AOS is a Maximum Opening Diameter Value
[2] Modified, Minimum Test Value

Physical Properties	Unit	Roll Sizes	
Roll Dimensions (width x length)	ft (m)	12.5 x 360 (3.8 x 110)	15 x 360 (4.5 x 110)
Roll Area	yd^2 (m^2)	500 (418)	600 (502)

Disclaimer: TenCate assumes no liability for the accuracy or completeness of this information or for the ultimate use by the purchaser. TenCate disclaims any and all express, implied, or statutory standards, warranties or guarantees, including without limitation any implied warranty as to merchantability or fitness for a particular purpose or arising from a course of dealing or usage of trade as to any equipment, materials, or information furnished herewith. This document should not be construed as engineering advice.

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Testing Lab 1291.01 & 1291.02

TENCATE GEOSYNTHETICS
Americas

Mirafi® 180N/O

Mirafi® 180N/O is an orange nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi® 180N/O is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

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Mechanical Properties	Test Method	Unit	Typical Value[1]	
			MD	CD
Grab Tensile Strength	ASTM D4632	lbs (N)	240 (1068)	240 (1068)
Grab Tensile Elongation	ASTM D4632	%	70	70
Trapezoid Tear Strength	ASTM D4533	lbs (N)	90 (400)	90 (400)
CBR Puncture Strength	ASTM D6241	lbs (N)	630 (2802)	
Permittivity	ASTM D4491	sec^{-1}	1.5	
Flow Rate	ASTM D4491	$gal/min/ft^2$ ($l/min/m^2$)	95 (3870)	
UV Resistance (at 500 hours)[1]	ASTM D4355	% strength retained	80	

Apparent Opening Size (AOS): ASTM D4751: U.S. Sieve (mm): 80 (0.18) is tested to a Maximum Opening Diameter Value
[1] Modified

Physical Properties	Unit	Typical Value[2]
Weight (ASTM D5161)	oz/yd^2 (g/m^2)	8.0 (271)
Thickness (ASTM D5199)	mils (mm)	70 (1.8)
Roll Dimensions (width x length)	ft (m)	15 x 300 (4.5 x 91)
Roll Area	yd^2 (m^2)	500 (418)
Estimated Roll Weight	lb (kg)	271 (122)

Mirafi® 180N/O orange polypropylene nonwoven is not manufactured with any heavy metals contents. The regulated metals – lead, mercury, cadmium, and hexavalent chromium are not intentionally added to any component in this product during the manufacturing process.

[2] ASTM D4439 Standard Terminology for Geosynthetics: typical value, *n—for geosynthetics,* the mean value calculated from documented manufacturing quality control test results for a defined population obtained from one test method associated with on specific property.

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

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BRUCE RAUNER, GOVERNOR LISA BONNETT, DIRECTOR

217/524-3300

May 8, 2015

City of Chicago Department of Fleet and Facility Management
Attn: Ms. Kimberly Worthington
30 North LaSalle Street
Chicago, IL 60602-2575

Re: 0316685080—Cook County
Chicago/Halsted Parkways
Site Remediation/Technical Reports

Dear Ms. Worthington:

The Illinois Environmental Protection Agency (Illinois EPA) has conducted a review of your *Remedial Action Plan Addendums* (log #s 15-59263 & 15-59373) for the Halsted Parkways site, received on April 22, 2015 & May 4, 2015, respectively. The Illinois EPA approves the RAP Addendums and provides the following information for your files.

Once the remedial actions outlined in the above reports, and all other previously approved remedial actions at the site have been completed, please provide the Illinois EPA with a Remedial Action Completion report for review, per Illinois Administrative Code 35, Section 742. If you have any questions, please contact me at 217/782-9283.

Sincerely,

Rhett M. Rossi
Voluntary Site Remediation Unit
Remedial Project Management Section
Bureau of Land

cc: Pioneer Environmental Services, LLC
Attn: Ms. Natalie J. Struble
700 N. Sacramento Blvd., Suite 101
Chicago, IL 60612

PIONEER
ENVIRONMENTAL SERVICES, LLC

Remedial Action Completion Report

LPC #0316685080 / Cook County
Chicago / Halsted Parkways
Lot 2 and Lot 4
Northwest Corner of West 63rd Street and South Halsted Street
Chicago, Illinois

Prepared For:
Chicago Neighborhood Initiatives
1000 E. 111th St., 10th Floor
Chicago, IL 60628
Attn: David Doig

Project Number:
12-0646-103

Date Submitted:
July 21, 2015

PIONEER
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The following personnel have prepared and/or reviewed this report.



Wayne Smith, P.G.
Vice President
Report Reviewer

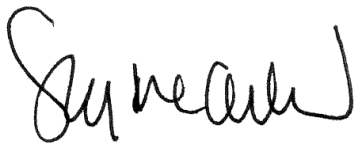


Natalie Struble
Project Manager
Report Author

Licensed Professional Engineer Affirmation

I attest that all site investigations or remedial activities, including review of laboratory data, that are the subject of this plan or report were performed under my direction and this document and all attachments were prepared under my direction or reviewed by me, and, to the best of my knowledge and belief, the work described in the plan or report has been designed or completed in accordance with the Act, 35 Ill. Adm. Code 740, and generally accepted engineering practices, and the information presented, including any qualified laboratory data is accurate and complete.

In addition, I affirm that the documentation of the prior investigations or remedial activities is suitable for use and consideration in evaluating site conditions in connection with this assessment.



Jeffrey McClelland, P.E.
Vice President

12-0646-103

Pioneer Project Number

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EXECUTIVE SUMMARY

Pioneer Environmental Services, LLC (Pioneer) was contracted by Chicago Neighborhood Initiatives (CNI), the Client, on behalf of the City of Chicago, the Remediation Applicant, to provide environmental site closure services for the Halsted Parkways Remediation Site located at the northwest corner of West 63rd Street and South Halsted Street in Chicago (Cook County), Illinois. The Halsted Parkways Remediation Site encompasses approximately 10.5 acres of land and is composed of several individual lots designated as Lots 1 through 8 (Figure 1). As discussed in Pioneer's approved Comprehensive Site Investigation Report/ Remediation Objectives Report/Remedial Action Plan (CSIR/ROR/RAP), dated April 29, 2014, the redevelopment of the Halsted Parkways Remediation Site will proceed in various stages; consequently, multiple final No Further Remediation (NFR) letters will be requested from the Illinois Environmental Protection Agency (IEPA) as the redevelopment of this site is completed. To date, all required engineered barriers have been installed at Lot 2 and Lot 4 of the larger Halsted Parkways Remediation Site. Therefore, this Remedial Action Completion Report (RACR) is specific to those areas only and documents the implementation of the RAP and related activities necessary to obtain a final NFR letter for those specific portions (Lots 2 & 4) of the larger Halsted Parkways Remediation Site (hereinafter referred to as Remediation Site-Lot 2/Lot 4).

The Remediation Site-Lot 2/Lot 4 consists of two irregular-shaped lots along the northwest boundary of the Halsted Parkways Remediation Site. The Halsted Parkways Remediation Site is currently occupied by an approximate 10,000 ft^2 former fire house (an historic landmark) located on the north-central portion of the site, and contains approximately 10.5 acres of land. Lots 2 and 4 have been developed as landscaped areas, and Lot 6 is being developed with a Whole Foods Market grocery store, a multi-unit retail structure, and associated parking lots. Lots 1, 3, 5, 7, and 8 are currently cleared and graded, and in the immediate future will remain undeveloped. City streets and alleys are also present within the boundaries of the Halsted Parkways Remediation Site (Figure 1). The (known) intended future uses of the Halsted Parkways Remediation Site are for commercial/retail development purposes. The (known) intended future use of the Remediation Site-Lot 2/Lot 4 is to remain a grassed landscaped area. A Site Base Map showing the boundaries of the Remediation Site-Lot 2/Lot 4 is included in Appendix A.

The objective of this RACR is to document the implementation of the RAP, including the installation of engineered barriers, to comply with the applicable regulations of Title 35 Illinois Administrative Code Part 740 [35 IAC 740 – Site Remediation Program (SRP)], and Part 742 [Tiered Approach to Corrective Action Objectives (TACO)]. This work was voluntarily conducted to facilitate the redevelopment of the Halsted Parkways Remediation Site, and to obtain a comprehensive NFR letter for the Remediation Site-Lot 2/Lot 4 from the IEPA, in accordance with the regulations set forth in 35 IAC Part 740, Subpart F and Section 58.10 of the Act.

The scope of environmental services provided by Pioneer included: (1) an evaluation of the results of prior environmental investigation activities performed by Pioneer and other consultants; (2) general field oversight and project management during mass grading and other earthwork activities associated with the site preparation and redevelopment; (3) documentation and oversight of soil excavation activities related to the installation of stormwater detention structures on Lot 2 and Lot 4; (4) soil/waste characterization testing and

documentation of off-site export and disposal of soils/construction spoils generated during redevelopment activities; (5) clean soil source testing and documentation of the installation of IEPA-approved alternate engineered barriers in greenspaces; and (6) the preparation of this RACR for submittal to the IEPA's voluntary SRP in order to request a final NFR letter for Remediation Site-Lot 2/Lot 4. The IEPA conditionally approved the CSIR/ROR/RAP in a letter dated May 29, 2014.

The Remediation Site-Lot 2/Lot 4 and surrounding properties are located within the municipal limits of the City of Chicago. The Remediation Site-Lot 2/Lot 4 is currently developed as a grassed landscaped area, and, based on historical aerial photographs, there have been no active operations conducted on site since at least 2007. Based on a review of historical Sanborn Fire Insurance Maps, the Halsted Parkways Remediation Site was historically occupied by numerous individual city lots that were mainly occupied by residential dwellings but also contained various commercial structures. An interpretation of aerial photographs indicates that at some time between 1962 and 1972, the Halsted Parkways Remediation Site underwent significant changes including demolition of many of the residential structures, reconfiguration of city streets, and conversion to primarily commercial uses.

The approach outlined in Section 3.2 of the CSIR/ROR/RAP, dated April 29, 2014, previously submitted to the IEPA proposed that the contaminants identified at the Halsted Parkways Remediation Site would be addressed by taking certain measures. The measures that pertain to Lots 2 and 4 are as follows:

- Construction workers will be notified and protective measures will be taken in relation to potential exposure to contaminants identified at the Remediation Site-Lot 2/Lot 4.
- Installation and maintenance of appropriate engineered barriers covering the entire Halsted Parkways Remediation Site to eliminate the soil ingestion exposure route for residential properties.
- Establishment of the entire Halsted Parkways Remediation Site as a Soil Management Zone (SMZ) to allow the consolidation and redistribution of impacted soils during redevelopment.

Given that the required engineered barriers have been installed, this report is intended to serve as a RACR. This report demonstrates that the "remedial actions" outlined in the previously submitted CSIR/ROR/RAP have been completed, and the site warrants a NFR Letter.

This report has been prepared for the use of the Remediation Applicant identified in the report, the City of Chicago, and for evaluation by the IEPA, and can not be relied upon by other persons or entities without the permission of Pioneer. The observations and conclusions contained herein are limited by the scope and intent of the work mutually agreed upon by the client and Pioneer and the work actually performed. There are no warranties, implied or expressed, concerning the environmental integrity of areas and/or mediums not analytically tested.

1.0 REMEDIAL ACTION COMPLETION REPORT

1.1 Introduction

Pioneer Environmental Services, LLC (Pioneer) was contracted by Chicago Neighborhood Initiatives (CNI), the Client, on behalf of the City of Chicago, the Remediation Applicant, to provide environmental site closure services for the Halsted Parkways Remediation Site located at the northwest corner of West 63rd Street and South Halsted Street in Chicago (Cook County), Illinois. The Halsted Parkways Remediation Site encompasses approximately 10.5 acres of land and is composed of several individual lots designated as Lots 1-8 (Figure 1). As discussed in Pioneer's IEPA-approved CSIR/ROR/RAP, dated April 29, 2014, the redevelopment of the Halsted Parkways Remediation Site will proceed in various stages; consequently, multiple final NFR letters will be requested from the IEPA as the redevelopment of this site is completed. To date, all required engineered barriers have been installed at Lot 2 and Lot 4 of the larger Halsted Parkways Remediation Site. Therefore, this RACR is specific to those areas only and documents the implementation of the RAP and related activities necessary to obtain a final NFR letter for those specific portions (hereinafter referred to as Remediation Site-Lot 2/Lot 4) of the larger Halsted Parkways Remediation Site.

The scope of environmental services provided by Pioneer included: (1) an evaluation of the results of prior environmental investigation activities performed by Pioneer and other consultants; (2) general field oversight and project management during mass grading and other earthwork activities associated with the site preparation and redevelopment; (3) documentation and oversight of soil excavation activities related to the installation of stormwater detention structures on Lot 2 and Lot 4; (4) soil/waste characterization testing and documentation of off-site export and disposal of soils/construction spoils generated during redevelopment activities; (5) clean soil source testing and documentation of the installation of IEPA-approved alternate engineered barriers in greenspaces; and (6) the preparation of this RACR for submittal to the IEPA's voluntary SRP in order to request a final NFR letter for Remediation Site-Lot 2/Lot 4.

The Halsted Parkways Remediation Site was enrolled into the SRP on May 1, 2014, and a CSIR/ROR/RAP was submitted for review on April 29, 2014. The IEPA conditionally approved the CSIR/ROR/RAP on May 29, 2014. Additionally, RAP Addenda concerning the alternate engineered barrier requested for greenspaces were submitted to the IEPA and subsequently approved. The cumulative results of the site characterization work indicated that certain PNAs, metals, and total recoverable petroleum hydrocarbons (TRPH) concentrations exceeded the applicable Tier 1 SROs for various exposure pathways. These impacts were identified in soil samples collected from various areas throughout the Halsted Parkways Remediation Site. The identified contamination was primarily found within the shallow urban debris/fill materials situated above native sandy silt. There were no exceedances of the applicable Tier 1 groundwater remediation objectives (GROs) for any of the COCs.

Based on the approvals received from the IEPA and the specific contaminant conditions relative to Remediation Site-Lot 2/Lot 4, the only remaining activity to be completed at these lots was the installation of engineered barriers. The purpose of this RACR is to provide documentation that the appropriate engineered barriers have now been installed on Remediation Site-Lot 2/Lot 4.

Investigation implemented at the Remediation Site-Lot 2/Lot 4 consisted of various stages of soil investigation. The subsurface investigations completed by Pioneer included a ground penetrating radar (GPR) survey, performance of an exploratory test pit in the area of Suspect UST 4 as identified by the GPR survey, and advancement of 5 soil borings. The cumulative analytical results indicated that benzo(a)pyrene and mercury exceeded the Tier 1 SROs for ingestion on industrial/commercial properties and construction worker outdoor inhalation remediation objectives. The identified contamination is primarily found within the shallow urban debris/fill materials situated above native sandy silt. There were no exceedances of the applicable Tier 1 GROs for any of the COCs in groundwater samples collected from wells installed on the Halsted Parkways Remediation Site.

The detected contaminants, herein referred to as Targeted COCs, are outlined in the following table. To note, concentrations of antimony and selenium were detected at higher concentrations in B-102 (0-3), which was collected from Lot 1, as compared to the levels detected in B-103 (0-3), which was collected from Lot 2. The higher total concentrations from sample B-102 (0-3) were analyzed for antimony and selenium by synthetic precipitation leaching procedure (SPLP). These results revealed SPLP concentrations below the Class I migration to groundwater Tier 1 SROs. Therefore, the analytical data indicate that antimony and selenium are in compliance with the applicable objectives and are not included in Table 1-2 below.

Table 1-2 Targeted COCs & Affected Exposure Routes for Remediation Site-Lot 2/Lot 4

Targeted COC	Exposure Routes for Applicable Tier 1 SROs and GROs(1)							Default Soil Saturation (C_{sat})	Default Soil Attenuation Capacity
	Ingestion (I/C)	Inhalation (I/C)	Ingestion (CW)	Outdoor Inhalation (CW)	Migration to Class II GW SRO	Class II GW GRO	Indoor Inhalation (Res)		
benzo(a)pyrene	x	--	--	--	--	--	--	--	--
mercury	--	--	--	x	--	--	--	--	--

Notes: (1) = Pursuant to the 35 IAC Part 742 (TACO) regulations
X indicates COC detected above Tier 1 remediation objectives for applicable exposure route
-- indicates exposure route objectives not exceeded by Targeted COCs
CW = construction worker
GW = groundwater
I/C = industrial/commercial
Res = residential

1.2 Field Activities

1.2.1 Soil Handling and Disposal in Relation to Site Redevelopment

Two areas of the Remediation Site-Lot 2/Lot 4 were excavated for the installation of two subsurface stormwater detention chambers. As soil was excavated, the upper fill materials and deeper native sandy clay soils were separated. Since the Halsted Parkways Remediation Site is designated as a SMZ, the upper fill materials were stockpiled and used as fill on site. The deeper native soils were sampled, approved to be disposed as clean construction and demolition debris (CCDD), and hauled off-site for

disposal at a CCDD facility. As part of the redevelopment plan, berms were constructed on Lots 2 and 4 in accordance with the RAP. A layer of geotextile topped with at least 18 inches of clean soil compose the engineered barrier to create one complete barrier that covers the entire Remediation Site-Lot 2/Lot 4 to adequately eliminate the soil ingestion exposure pathway.

The redevelopment plans for Remediation Site-Lot 2/Lot 4 included the installation of two subsurface stormwater detention vaults (storm vaults). Based on the results of previous soil borings advanced by Pioneer at the site and test pits performed at the locations of the proposed storm vaults, the subsurface profile consists of typical urban fill materials from surface grade to depths ranging from approximately 3-6 feet, followed by units of native sandy/silty soils. Since the results of the IEPA-approved assessment indicated that the shallow fill materials have been impacted, Pioneer performed additional testing specifically to determine if construction spoils generated from the deeper native sandy/silty soils meet the criteria for disposal as CCDD.

Pioneer collected two representative samples of native soils encountered below the transition from urban fill materials to native sandy/silty soils. Two samples were collected (T-2 and T-3), with one representative sample coming from each test pit performed within the footprint of each of the two storm vaults. The transition from the shallow urban fill materials to native sandy/silty soils was present at different depths in each test pit. See Table 1-3 below for a summary of the relevant CCDD testing information. To note, the transition depths observed during excavation of the test pits were generally consistent with field observations made during Pioneer's previous site characterization work on site.

Table 1-3 CCDD Sample Information

CCDD Sample ID	CCDD Sample Location	Depth to Urban Fill Interface with Native Soil
T-2	West Storm Vault (Lot 4)	3.5 feet
T-3	North Storm Vault (Lot 2)	7.5 feet

Analytical testing of the native sandy/silty soils was performed on the two representative samples collected from the test pits performed at each of the two storm vault locations. No field evidence of contamination was noted at the sampling depth during the performance of the test pits. The samples were packed into laboratory-provided containers, stored on ice in a cooler, and relinquished to an independent laboratory for analysis of the appropriate CCDD parameters. Based on the analytical results (see the attached data tables and laboratory report in Appendix F), there were no contaminants detected above the Maximum Allowable Concentrations, therefore, the site's native sandy/silty soils met the definition of "uncontaminated soil" in accordance with 35 IAC 1100 and were certified to be disposed of as CCDD. The Uncontaminated Soil Certification (LPC-663) form, which pertained only to the deeper native sandy/silty soils located at the site, was submitted and subsequently approved by a permitted CCDD facility.

Pioneer provided oversight during on-site excavation work that generated construction spoils from the installation of the stormwater detention vaults on Lots 2 and 4. The native soils were visually

distinguishable from the typical Chicago urban fill materials. The upper urban fill materials were either removed and disposed of at a licensed Subtitle D landfill or remained on site under engineered barriers as approved by the IEPA pursuant to the Draft NFR letter dated May 29, 2014. The deeper native soils were also either removed and disposed of at a permitted CCDD facility or remained on site under engineered barriers. Pioneer confirmed that all construction spoils were handled properly and in accordance with applicable regulations.

To note, Pioneer oversaw the removal of all soils generated during construction activities that were exported off-site for disposal from the entire Halsted Parkways Remediation Site. Based on Pioneer's records, a combined total of approximately 7,661 tons were disposed of as CCDD (Reliable Materials in Lyons, Illinois) and approximately 2,503 tons were disposed of as non-hazardous, non-special waste at a licensed Subtitle D landfill (Waste Management's Laraway RDF facility) during the period from December 2014 through March 2015 (see summary table in Appendix B).

1.3 Fate and Transport Modeling

As discussed in Section 1.4.1 below, soil samples were collected and analyzed from the proposed source site for clean soil in accordance with the requirements of the IEPA-approved RAP. Due to the detections of aluminum and iron in those samples at levels that exceeded the Tier 1 SROs for the migration to groundwater exposure route, and consistent with conversations with IEPA, Pioneer conducted groundwater modeling to determine the extent of potential migration of those inorganics, and to confirm the extent of potential migration does not extend past the bounds of the Chicago groundwater ordinance (see Spreadsheet 1 Equation R-26 in Appendix E). The modeling calculations were performed using spreadsheets prepared by Pioneer. See Appendix E of this report for a spreadsheet which outlines the applicable parameters and completed calculations (Spreadsheet 1).

1.3.1 Fate & Transport Modeling Parameters

Default and chemical-specific input variables provided in TACO and several site-specific variables were used in the fate and transport modeling equations. The default values were used for total soil porosity (η) and the source width in the vertical plane (Sd). A site-specific hydraulic gradient was calculated by utilizing an online hydraulic gradient calculator provided by the US EPA using the groundwater elevation data obtained from the site. The hydraulic gradient for the Halsted Parkways Remediation Site was calculated to be 0.007095 ft/ft based on the groundwater data, and indicates an easterly direction of flow. Additional information and discussion of the hydraulic gradient and hydraulic conductivity are provided in Section 1.4.6 of a previously submitted CSIR/ROR/RAP, dated April 29, 2015. Site-specific variables used in the calculations are summarized in the following table.

Table 1-4 Site-Specific Variables for Fate & Transport Modeling Calculation

Variable	Value		Source
Source Width Perpendicular to Groundwater Flow Direction in the Horizontal Plane ("Sw")	Aluminum	712 feet (21,702 cm)	Imported clean soil
	Iron	712 feet (21,702 cm)	
Hydraulic Conductivity (K)	3.33 x 10^{-5} cm/s		In-situ slug testing from MW-3 (see CSIR/ROR/RAP)
Hydraulic Gradient (i)	0.007095 ft/ft		Field measurements from on-site wells (see CSIR/ROR/RAP)

1.3.2 Fate & Transport Modeling Calculations

Pioneer used the actual concentrations of aluminum and iron analyzed using the SPLP methodology in risk-based corrective action (RBCA) Equations R16 through R19, and R26 to determine the extent of potential migration of these inorganics (see Spreadsheet 1 in Appendix E).

Table 1-5 Equation R-26 Results

Targeted COC	Concentration* – Csource for Groundwater	Modeled Distance in Groundwater (beyond source area)	Off-Site Property Impacts
Aluminum	14.1	208	Yes
Iron	12.4	125	Yes

Notes: All concentrations listed in mg/L - parts per million (ppm)

The potential impacts were modeled in the direction of groundwater flow from the source areas. The results of the R-26 modeling show that aluminum and iron have the potential to migrate off site beyond the bounds of the Remediation Site Lot 2/Lot 4 (Figure 4). Thus, identification of, and notifications to, potentially affected off-site property owners, pursuant to Sections 742.1015(b)(4) and 742.1015(b)(5), will be required. Information identifying the owners of potentially impacted properties is provided in Section 1.4.3 of this report.

1.4 Special Conditions

1.4.1 Engineered Barriers - Soil Source Site Documentation

In accordance with the IEPA-approved RAP, engineered barriers were installed on Lots 2 and 4 to exclude the soil ingestion exposure route.

Since the surface area of Remediation Site-Lot 2/Lot 4 does not contain any pavement, only a clean soil engineered barrier was required for the site. A soil source site located at 2950 Centerpoint Way in Joliet, Illinois was proposed as the supply of clean soil for the site. Review of an environmental database report for the site identified no unresolved violations, LUST incidents, or other obvious concerns on the source site or adjacent properties. A review of historical aerials revealed the source site appears to have been used for farming operations. A copy of the environmental database report is included in Appendix C.

As outlined in the RAP, one sample for every 1,000 cubic yards of soil to be imported was collected from the soil source site. It was estimated that approximately 4,600 cubic yards of clean soil would be imported to the Halsted Parkways Remediation Site to accommodate the installation of clean soil engineered barriers. This total included all greenspace areas for Lots 2 and 4, and for practical construction and timing reasons, also included Lot 6 (which is not part of this RACR but will be included in a subsequent report). Therefore, five soil samples (S-1 through S-5) were collected from the soil source site at 2950 Centerpoint Way in Joliet, Illinois, and analyzed for Target Compound List (TCL) parameters. The analytical results identified no COCs exceeding the most stringent Tier 1 SROs with the exception of (total) concentrations of certain naturally-occurring inorganics, namely aluminum, antimony, cobalt, iron, and/or manganese, detected at levels marginally exceeding the Metropolitan Areas Background Concentration in five samples. These samples were subsequently analyzed using the SPLP methodology. Concentrations of antimony, cobalt and manganese did not exceed SPLP Class I objectives; however, concentrations of aluminum and iron exceeded SPLP Class I objectives. Considering that aluminum and iron are among the most common and highly abundant elements in soil, and given conversations with the IEPA regarding this issue, the soil was allowed to be used for the clean soil engineered barrier. As requested by IEPA and discussed in Section 1.3 of this RACR, the predicted extent of potential groundwater migration was modeled and demonstrated that concentrations of aluminum and iron would meet the most stringent objectives within the boundaries of the area covered by the Chicago groundwater ordinance.

1.4.2 Engineered Barriers - Composition and Installation

RAP Addenda dated April 21 and April 30, 2015, were submitted to the IEPA to propose a specific geotextile product to be used as part of an alternate engineered barrier in greenspaces. Pioneer proposed the use of geotextile products known as TenCate Mirafi 140N and TenCate Mirafi 180N/LO which were approved in a letter dated May 8, 2015. Either of these geotextiles capped with a minimum of 18 inches of clean soil was approved as the clean soil engineered barrier to adequately eliminate the soil ingestion exposure pathway.

As part of the overall site redevelopment plan, earthen berms were constructed on Lots 2 and 4 utilizing soil from the site as allowed by the designation of the entire Halsted Parkways Remediation Site as a SMZ. The surface areas of Lots 2 and 4 were graded to an appropriate sub-grade and then shaped to create earthen berms using standard construction equipment and surveying techniques. At that time, the TenCate Mirafi 140N geotextile was laid down in manageable sections and then subsequently capped with a minimum of 18-inches of certified clean soil obtained from the source site described above. The clean soil was then graded into the final berm configuration per the redevelopment specifications. TenCate Mirafi 140N is a black, nonwoven, geotextile composed of polypropylene fibers. The entire surface area of Remediation Site-Lot 2/Lot 4 has been capped by an approved clean soil engineered barrier.

Diagrams illustrating the current configuration of the Remediation Site-Lot 2/Lot 4 and final engineered barriers are included as Figures 1 and 2 and photo documentation showing the completed barriers is included in Appendix B.

Conditions for Barriers:

If any future construction activities disturb the barriers, the barriers must be replaced with equivalent materials. If any future construction activities will result in the installation of alternate barriers, the alternate barriers must be approved by the IEPA.

1.4.3 Institutional Controls

The following institutional controls are proposed for the Remediation Site-Lot 2/Lot 4:

1) In accordance with 35 IAC 742.310(d), 742.605(b)(2), and 742.1005, the comprehensive NFR letter to be issued for the Remediation Site-Lot 2/Lot 4 will be recorded as a permanent part of the chain of title for this site and shall serve as the appropriate institutional control regarding construction worker notification, maintenance of the engineered barriers, and allowable land uses (industrial/ commercial).

2) The groundwater ingestion exposure route will be eliminated through a City of Chicago ordinance and Memorandum of Understanding (MOU) with the IEPA as an institutional control in accordance with 35 IAC 742.1015. A copy of the ordinance is provided in Appendix D of this report and will be recorded as a permanent part of the chain of title for the Remediation Site-Lot 2/Lot 4 in accordance with 35 IAC 742.1015(f).

   As required by 742.1015(b), a request for approval of a local ordinance as an institutional control shall provide the following:

   - A copy of the ordinance restricting groundwater use (Section 742.1015(b)(1));

     The City of Chicago groundwater use ordinance is provided in Appendix D.

   - A scaled map(s) delineating the area and extent of groundwater contamination modeled above the applicable remediation objectives (Section 742.1015(b)(2));

     Figure 4 is a scaled map showing the modeled extent of potential impacts.

   - A scaled map delineating the boundaries of all properties under which groundwater is located which exceeds the applicable groundwater remediation objectives (Section 742.1015(b)(3));

     According to the Equation R26 modeling presented in Section 1.3 of this report, groundwater contamination is predicted to migrate east-southeast of the boundaries of the Remediation Site-Lot 2/Lot 4. Figure 4 shows the predicted extent of impacts, and the boundaries of the Remediation Site-Lot 2/Lot 4 and the potentially impacted properties.

   - Information identifying the current owner(s) of each impacted property identified (Section 742.1015(b)(4)); and,

The potentially affected properties as shown on Figure 4 are owned by Englewood Square, L.P. and the City of Chicago. Specifically, all parcels included in Lot 6 are owned by Englewood Square, L.P., or ownership will be transferred in the immediate future. The remaining affected parcels, including parcels outside the Halsted Parkways Remediation Site with PINs 20-17-431-001-0000, 20-17-431-002-0000, and 20-17-431-003-0000, are owned by the City of Chicago.

- A copy of the proposed written notification to the unit of local government that adopted the ordinance and to the current owners identified in subsection (b)(4) (Section 742.1015(b)(5)).

  Copies of the proposed notifications to the owners of the potentially impacted properties and to the City of Chicago are included in Appendix D of this RACR. In order to satisfy 35 IAC 742.1015(c), written proof that notification was submitted to the private landowners and the City of Chicago will be provided to the IEPA within 45 days from the date the NFR letter is recorded for the Remediation Site-Lot 2/Lot 4.

1.4.4 Post-Remedial Monitoring

No post-remedial monitoring is required for the Remediation Site-Lot 2/Lot 4.

1.4.5 Other Conditions

Groundwater at the site is classified as Class II, general use groundwater, and as such, is not suitable for potable use.

1.5 Conclusions

Pioneer believes that the cumulative information indicates that applicable exposure pathways have been effectively eliminated, thus allowing the residual impacts identified at the site to remain in place through options provided in 35 IAC 742. Given that remedial actions have been completed at the Remediation Site-Lot 2/Lot 4 in accordance with the IEPA-approved CSIR/ROR/RAP, dated April 29, 2014, Pioneer believes this site warrants the issuance of a comprehensive NFR letter pursuant to 35 IAC Section 740.605 and 415 ILCS 5/58.10 of the Illinois Environmental Protection Act. The NFR letter shall be recorded as a permanent part of the chain of title for the Remediation Site-Lot 2/Lot 4 and serve as an appropriate institutional control.

The NFR letter shall include the following conditions:

- The Remediation Site-Lot 2/Lot 4 will be restricted to industrial/commercial land use.
- The soil ingestion exposure route will be eliminated for the entire Remediation Site-Lot 2/Lot 4 using the clean soil engineered barrier described herein.
- Groundwater at the site shall be classified as Class II, general use groundwater.

- Any future buildings constructed on the site must contain a full concrete slab-on-grade floor or full concrete basement floor and walls with no sumps.

As a regulatory note, any contaminated soil or groundwater that is removed, excavated or disturbed from the Remediation Site-Lot 2/Lot 4 must be handled in accordance with applicable laws and regulations.

2.0 CLOSING REMARKS

This report has been prepared for the use of the client (CNI) and the Remediation Applicant identified in the report, and for evaluation by the IEPA, and cannot be relied upon by other persons or entities without the permission of Pioneer Environmental Services, LLC (Pioneer). The observations and conclusions contained herein are limited by the scope and intent of the work mutually agreed upon by the client and Pioneer and the work actually performed. There are no warranties, implied or expressed, concerning the environmental integrity of areas and/or mediums not analytically tested.

3.0 REFERENCES

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FIGURES

Figure 1 Site Diagram

Figure 2 Soil Boring Location Diagram

Figure 3 Engineered Barriers

Figure 4 Predicted Extent of Potential Migration - Aluminum & Iron

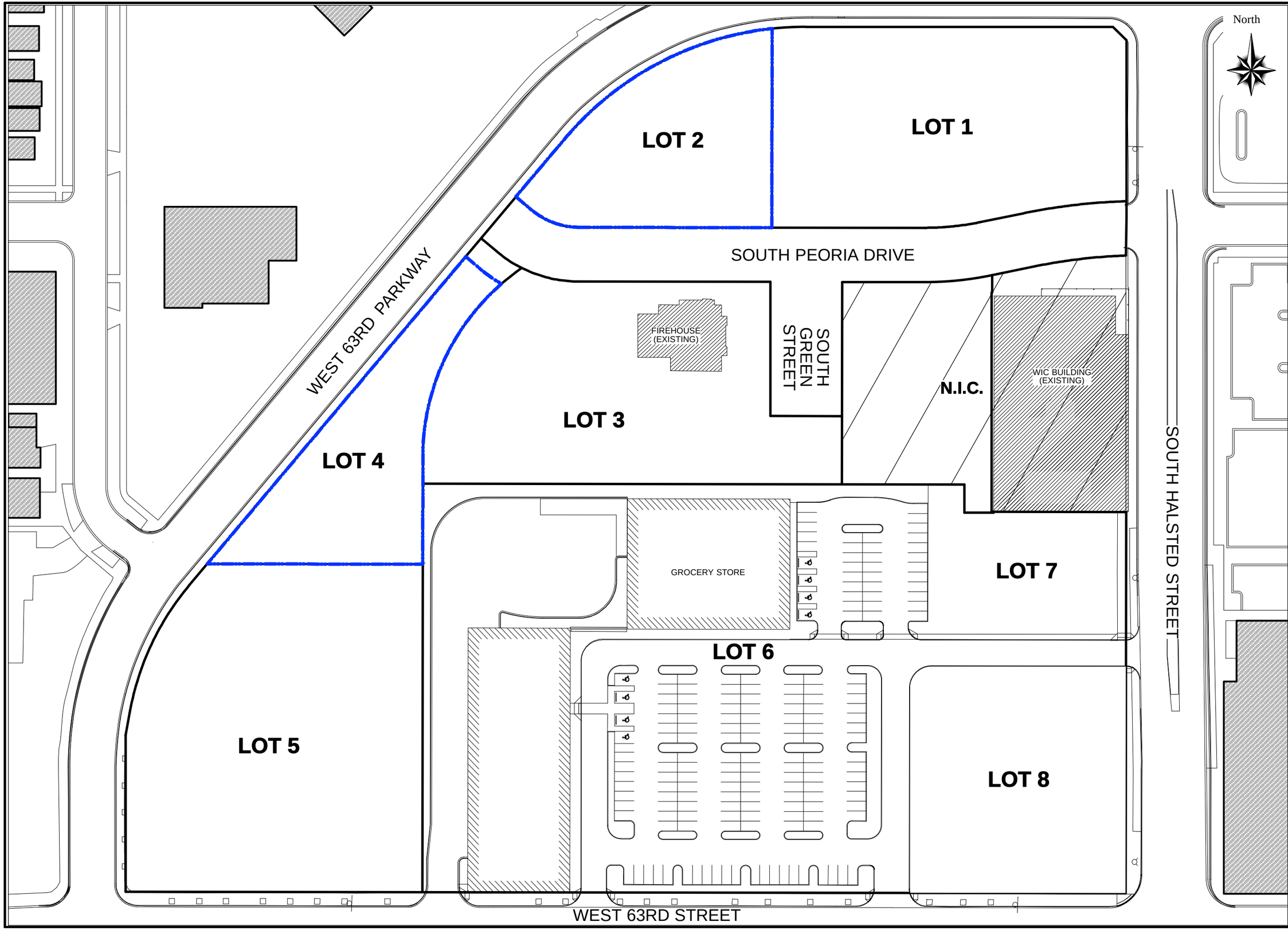

FIGURE 1
Site Diagram Lot 2 / Lot 4
Halsted Parkways
NWC West 63rd Street
& South Halsted Street
Chicago, IL

Scale: 1" = 80'
0' 80'

Drawn by: Kendrick Ting

Job No: 12-0646-103

Date: June 2015

Checked by: Natalie Struble

Legend: Remediation Site Lot 2/Lot 4 Boundary

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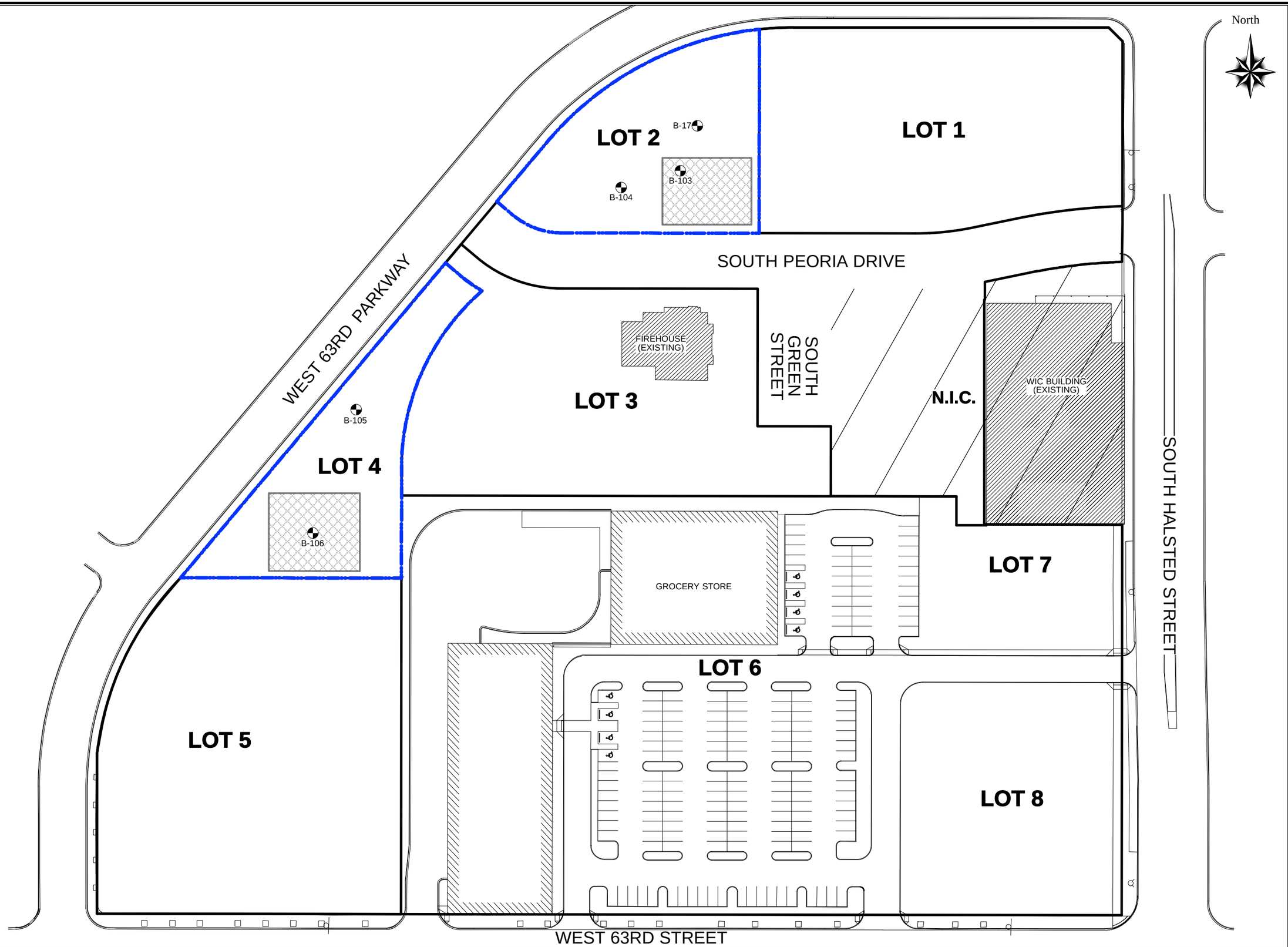

FIGURE 2
Soil Boring Location Diagram
Lot 2 / Lot 4
Halsted Parkways
NWC West 63rd Street
& South Halsted Street
Chicago, IL

Scale: 1" = 80'
0' 80'

Drawn by: Kendrick Ting

Job No: 12-0646-103

Date: June 2015

Checked by: Natalie Struble

Legend:

Remediation Site Lot 2/Lot 4 Boundary

Soil Boring Location

Stormwater Detention Chamber

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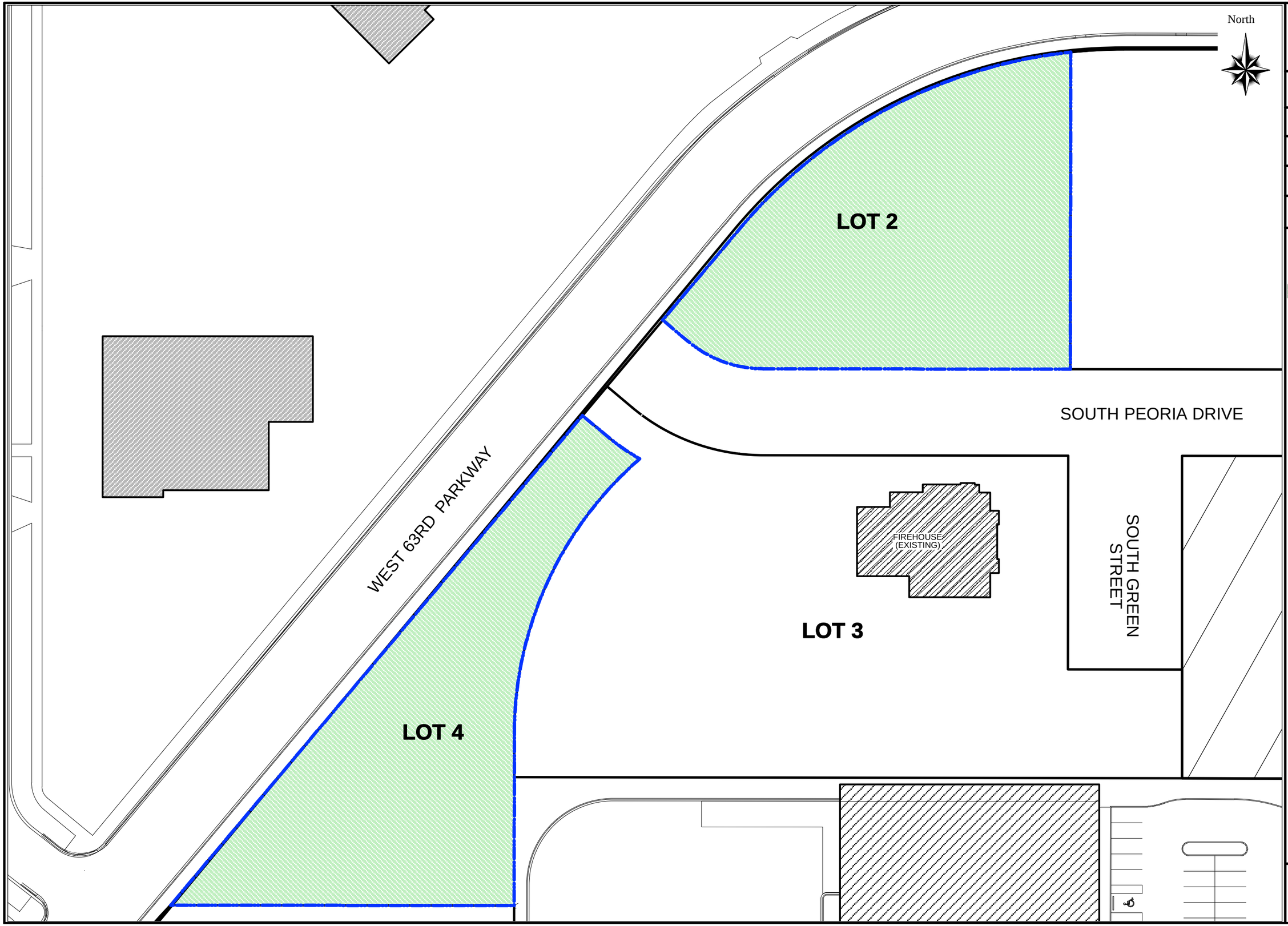

FIGURE 3
Engineered Barrier Diagram
Lot 2 / Lot 4
Halsted Parkways
NWC West 63rd Street
& South Halsted Street
Chicago, IL

Scale:
1" = 50'
0' 50'

Drawn by:
Kendrick Ting

Job No:
12-0646-103

Date:
June 2015

Checked by:
Natalie Struble

Legend:
Remediation Site Lot 2/Lot 4 Boundary
Soil Boring Location
Minimum 18" Clean Soil Cover Underlain By TenCate Mirafi 140N Geotextile

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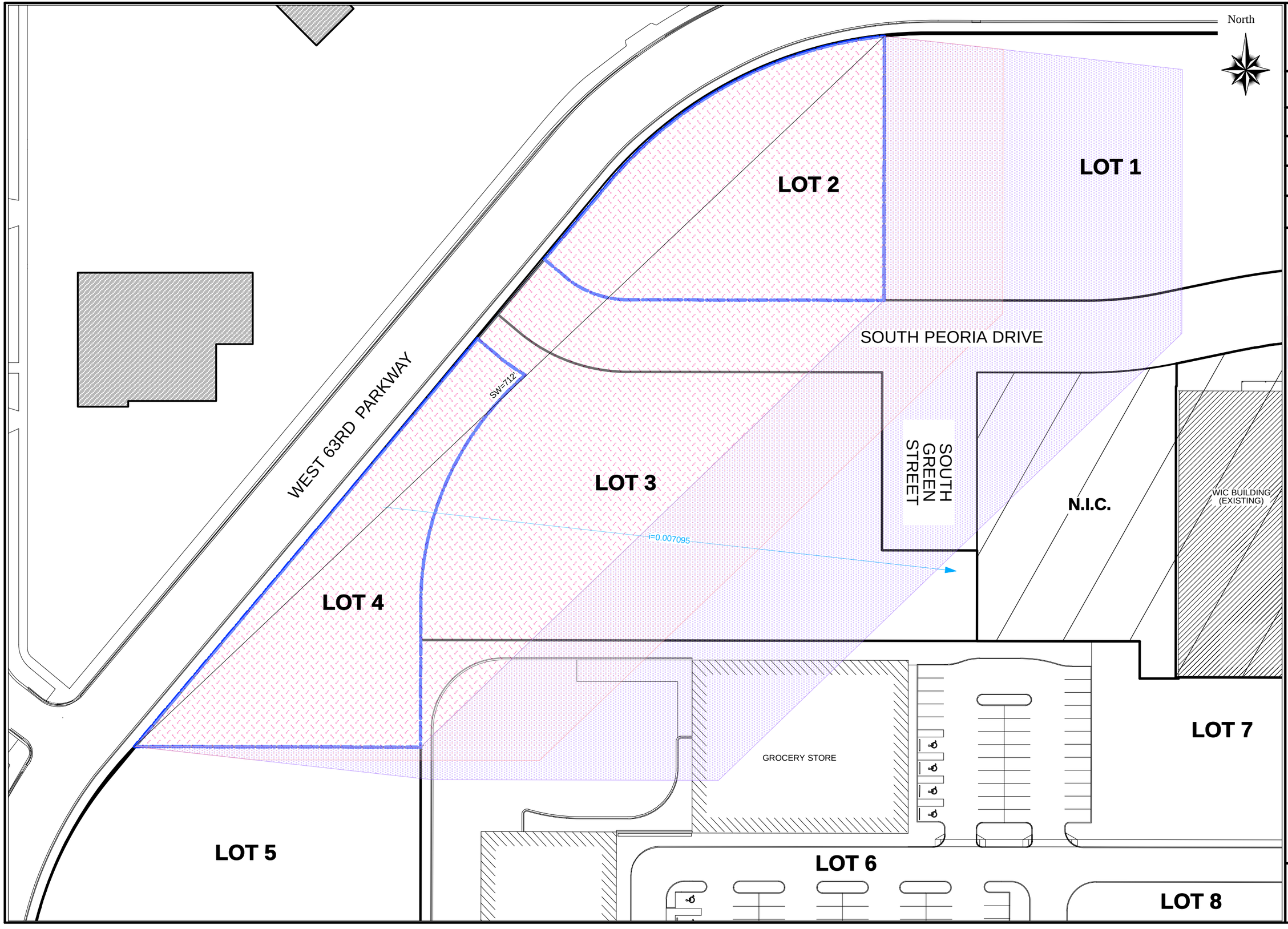

FIGURE 4
Predicted Extent of Potential Migration - Al & Fe
Lot 2 / Lot 4
Halsted Parkways
NWC West 63rd Street & South Halsted Street
Chicago, IL

Scale: 1" = 60'
0' 60'

Drawn by: Kendrick Ting

Job No: 12-0646-103

Date: June 2015

Checked by: Natalie Struble

Legend:
- Remediation Site Lot 2/Lot 4 Boundary
- Soil Boring Location
- Iron and Aluminum Source Area
- Maximum Predicted Extent of Potential Iron Migration In Groundwater X=125'
- Maximum Predicted Extent of Potential Aluminum Migration In Groundwater X=208'

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TABLES

Site Assessment Results - NWX W. 63rd St. & S. Halsted St.

Table 1 Soil Sample Analytical Results: VOCs

Table 2 Soil Sample Analytical Results: SVOCs

Table 3 Soil Sample Analytical Results: PNAs

Table 4 Soil Sample Analytical Results: Total RCRA 8 Metals

Table 5 Soil Sample Analytical Results: TCL Metals

Table 6 Soil Sample Analytical Results: Pesticides

Table 7 Soil Sample Analytical Results: PCBs

TABLE NO. 1 Soil Sample Analytical Results: VOCs NWX W. 63rd St. & S. Halsted St. - Lot 2/Lot 4 Chicago, Illinois				Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
				Industrial - Commercial		Construction Worker		Migration to Groundwater	
Sample ID (Interval)	B-17 (0-3)	B-103 (0-3')	B-105 (0-3')	Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II
Collection Date	1/10/13	2/20/14	2/19/14						
1,1,1-Trichloroethane	<0.000789	<0.00100	<0.00097	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane(1)	<0.000789	0.0024	<0.00097	27	1.2	620	1.7	0.0035	0.0035
1,1,2-Trichloroethane	<0.000789	<0.00100	<0.00097	8,200	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.000789	<0.00100	<0.00097	200,000	1,700	200,000	130	23	110
1,1-Dichloroethene	<0.000789	<0.00100	<0.00097	100,000	470	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.000789	<0.00100	<0.00097	63	0.7	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.000789	<0.00100	<0.00097	84	23	1,800	0.50	0.03	0.15
2-Butanone (MEK)(1) & (2)	<0.00789	<0.0100	<0.00975	1,000,000	25,000	120,000	730	17	17
2-Hexanone(1)	<0.0197	<0.0251	<0.0244	10,000	720	1,000	47	0.16	0.16
4-Methyl-2-pentanone (MIBK)(1)	<0.0197	<0.0251	<0.0244	160,000	3,100	160,000	340	2.5	2.5
Acetone	0.0722	<0.0251	<0.0244	--	100,000	--	100,000	25	25
Benzene	<0.000197	<0.000251	<0.00024	100	1.6	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.000789	<0.00100	<0.00097	92	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.000789	<0.00100	<0.00097	720	100	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.000789	<0.00100	<0.00097	2,900	15	1,000	3.9	0.2	1.2
Carbon Disulfide	0.00383	0.002	<0.00097	200,000	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.000789	<0.00100	<0.00097	44	0.64	410	0.9	0.07	0.33
Chlorobenzene	<0.000789	<0.00100	<0.00097	41,000	210	4,100	1.3	1	6.5
Chloroethane(1)	<0.000789	<0.00100	<0.00097	--	1,500	20,000	39	--	--
Chloroform	<0.000789	<0.00100	<0.00097	940	0.54	2,000	0.76	0.6	2.9
Chloromethane(1)	<0.000789	<0.00100	<0.00097	--	180	--	5	--	--
cis-1,2-Dichloroethene	<0.000789	<0.00100	<0.00097	20,000	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.001578	<0.00200	<0.00194	57	2.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.000789	<0.00100	<0.00097	41,000	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.000789	0.00178	<0.00097	200,000	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.000789	<0.00100	<0.00097	20,000	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.00394	<0.00502	<0.00488	760	24	12,000	34	0.02	0.2
Styrene	<0.000789	<0.00100	<0.00097	410,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.00158	<0.00201	<0.00195	110	20	2,400	28	0.06	0.3
Toluene	<0.000789	<0.00100	<0.00097	410,000	650	410,000	42	12	29
Total Xylenes	<0.00158	0.0108	0.00504	410,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.000789	<0.00100	<0.00097	41,000	3,100	41,000	3,100	0.7	3.4
Trichloroethene	<0.000789	<0.00100	<0.00097	520	8.9	1,200	12	0.06	0.3
Vinyl Chloride	<0.000789	<0.00100	<0.00097	7.9	1.1	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)

EPA test method SW846, 8260B/5035

Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO

"<" indicates not detected at stated detection limits

"--" indicates value not available

SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)

(1) SROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (revised October 30, 2012)

(2) Proposed TACO Chemical

TABLE NO. 2 Soil Sample Analytical Results: SVOCs NWX W. 63rd St. & S. Halsted St. Lot 2/Lot 4 Chicago, Illinois			Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
			Industrial - Commercial		Construction Worker		Migration to Groundwater	
Sample ID (Interval)	B-103 (0-3')	B-105 (0-3')	Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II
Collection Date	2/20/14	2/19/14						
1,2,4-Trichlorobenzene	<0.302	<0.292	20,000	3,200	2,000	920	5	53
1,2-Dichlorobenzene	<0.302	<0.292	180,000	560	18,000	310	17	43
1,3-Dichlorobenzene	<0.302	<0.292	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.302	<0.292	--	17,000	--	340	2	11
2, 2'-oxybis(1-chloropropane)(1)	<0.302	<0.292	82,000	--	8,200	--	2.4	2.4
2,4,5-Trichlorophenol	<0.302	<0.292	200,000	--	200,000	--	270	1,400
2,4,6-Trichlorophenol	<0.302	<0.292	520	390	11,000	540	0.2	0.77
2,4-Dichlorophenol	<0.302	<0.292	6,100	--	610	--	1	1
2,4-Dimethylphenol	<0.302	<0.292	41,000	--	41,000	--	9	9
2,4-Dinitrophenol	<0.302	<0.292	4,100	--	410	--	0.2	0.2
2,4-Dinitrotoluene	<0.302	<0.292	8.4	--	180	--	0.0008	0.0008
2,6-Dinitrotoluene	<0.302	<0.292	8.4	--	180	--	0.0007	0.0007
2-Chloronaphthalene(1)	<0.302	<0.292	160,000	--	41,000	--	49	240
2-Chlorophenol	<0.302	<0.292	10,000	53,000	10,000	53,000	4	20
2-Methylnaphthalene(1) & (2)	0.488	<0.292	8,200	--	820	--	1.9	9.5
2-Methylphenol (o-Cresol)	<0.302	<0.292	100,000	--	100,000	--	15	15
2-Nitroaniline(1)	<0.302	<0.292	31,000	28	31,000	1.5	0.7	0.7
2-Nitrophenol	<0.302	<0.292	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.302	<0.292	13	--	280	--	0.007	0.033
3,4-Methylphenol (m,p-Cresol)(1)	<0.302	<0.292	100,000(4)	107,000(4)	4,100(4)	3,300(4)	2(4)	2(4)
3-Nitroaniline(1)	<0.302	<0.292	--	--	200	--	--	--
4,6-Dinitro-2-methylphenol(1)	<0.302	<0.292	160	--	160	--	0.0023(3)	0.0023(3)
4-Bromophenyl-phenyl ether	<0.302	<0.292	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.302	<0.292	--	--	--	--	--	--
4-Chloroaniline	<0.302	<0.292	8,200	--	820	--	0.7	0.7
4-Chlorophenyl-phenyl ether	<0.302	<0.292	--	--	--	--	--	--
4-Nitroaniline(1)	<0.302	<0.292	8,200	2,400	2,000	52	0.14	0.14
4-Nitrophenol	<0.302	<0.292	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.302	<0.292	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.302	<0.292	5	0.47	75	0.66	0.0004	0.0004
Bis(2-ethylhexyl)phthalate	<0.302	0.467	410	31,000	4,100	31,000	3,600	31,000
Butylbenzylphthalate	<0.302	<0.292	410,000	930	410,000	930	930	930
Carbazole	0.54	<0.292	290	--	6,200	--	0.6	2.8
Dibenzofuran(1)	0.708	<0.292	2,000	--	820	--	3	15
Diethylphthalate	<0.302	<0.292	1,000,000	2,000	1,000,000	2,000	470	470
Dimethylphthalate(1)	<0.302	<0.292	--	--	20,000	--	--	--
Di-n-butylphthalate	<0.302	<0.292	200,000	2,300	200,000	2,300	2,300	2,300
Di-n-octylphthalate	<0.302	<0.292	41,000	10,000	4,100	10,000	10,000	10,000
Hexachlorobenzene	<0.302	<0.292	4	1.8	78	2.6	2	11
Hexachlorobutadiene(1)	<0.302	<0.292	2,000	--	200	--	2.2	11
Hexachlorocyclopentadiene	<0.302	<0.292	14,000	16	14,000	1.1	400	2,200
Hexachloroethane	<0.302	<0.292	2,000	--	2,000	--	0.5	2.6
Isophorone	<0.302	<0.292	410,000	4,600	410,000	4,600	8	8
Nitrobenzene	<0.0604	<0.0583	1,000	140	1,000	9.4	0.1	0.1
N-Nitroso-di-n-propylamine	<0.302	<0.292	0.8	--	18	--	0.00005	0.00005
N-Nitrosodiphenylamine	<0.302	<0.292	1,200	--	25,000	--	1	5.6
Pentachlorophenol	<0.302	<0.292	24	--	520	--	0.03	0.14
Phenol	<0.302	<0.292	610,000	--	61,000	--	100	100

Notes: Results listed in mg/kg (parts per million)

EPA test method SW846, 8270C

Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO

"<" indicates not detected at stated detection limits

"--" indicates value not available

SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)

(1) SROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (revised October 30, 2012)

(2) Proposed TACO Chemical

(3) Most stringent pH-Specific value

(4) The laboratory is currently unable to separate the 3- and 4- Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported, and the more stringent Non-TACO objectives for either 3- or 4-Methylphenol are provided for comparison

TABLE NO. 3 Soil Sample Analytical Results: PNAs NWX W. 63rd St. & S. Halsted St. Lot 2/Lot 4/ Chicago, Illinois						Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
						Industrial - Commercial		Construction Worker		Migration to Groundwater	
Sample ID (Interval)	**B-17 (0-3)**	**B-103 (0-3')**	**B-104 (0-3')**	**B-105 (0-3')**	**B-106 (0-3')**	**Ingestion**	**Outdoor Inhalation**	**Ingestion**	**Outdoor Inhalation**	**Class I**	**Class II**
Collection Date	**1/10/13**	**2/20/14**	**2/20/14**	**2/19/14**	**2/19/14**						
Acenaphthene	0.136	0.647	0.353	<0.0583	<0.0479	120,000	--	120,000	--	570	2,900
Acenaphthylene[1]	0.108	0.0634	0.0618	<0.0583	0.0855	61,000	--	61,000	--	85	420
Anthracene	0.404	1.52	0.289	0.115	0.0814	610,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	1.2	**2.28**	1.12	0.371	0.506	8	--	170	--	2	8
Benzo(a)pyrene	1.2	**1.81**	1.07	0.322	0.676	0.8[2]/1.3[3]	--	17	--	8	82
Benzo(b)fluoranthene	1.49	2.67	1.29	0.437	0.704	8	--	170	--	5	25
Benzo(g,h,i)perylene[1]	0.393	0.486	0.579	0.19	0.411	61,000	--	61,000	--	27,000	130,000
Benzo(k)fluoranthene	0.462	0.694	0.41	0.161	0.182	78	--	1,700	--	49	250
Chrysene	1.13	2.17	1.03	0.381	0.53	780	--	17,000	--	160	800
Dibenzo(a,h)anthracene	0.123	0.242	0.139	0.0735	0.0781	0.8	--	17	--	2	7.6
Fluoranthene	2.02	5	2.23	0.725	0.818	82,000	--	82,000	--	4,300	21,000
Fluorene	0.161	1.15	0.12	<0.0583	<0.0479	82,000	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	0.417	0.5	0.493	0.16	0.327	8	--	170	--	14	69
Naphthalene	0.223	0.912	0.265	<0.0583	0.0543	41,000	270	4,100	1.8	12	18
Phenanthrene[1]	1.21	5.73	0.939	0.515	0.294	61,000	--	61,000	--	210	1,100
Pyrene	1.75	4.45	1.89	0.643	0.996	61,000	--	61,000	--	4,200	21,000

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8270C
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
(1) SROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (revised October 30, 2012)
(2) Pursuant to 35 IAC 742, the background concentration may be utilized in place of default Tier 1 SRO for ingestion exposure route
(3) Background concentration for Chicago pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table H)

TABLE NO. 4 Soil Sample Analytical Results: RCRA 8 Metals NWX W. 63rd St. & S. Halsted St. Lot 2/Lot 4 Chicago, Illinois				Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Background Concentration in Soils[1]
				Industrial - Commercial		Construction Worker		pH-Specific Migration		
								pH = 8.25 - 8.74		
Sample ID (Interval)	**B-17 (0-3)**	**B-104 (0-3')**	**B-106 (0-3')**	**Ingestion**	**Outdoor Inhalation**	**Ingestion**	**Outdoor Inhalation**	**Class I**	**Class II**	**Metropolitan Areas**
Collection Date	**1/10/13**	**2/20/14**	**2/19/14**							
pH	**8.63**	**8.68**	**8.68**							
Arsenic	<1.14	3.89	3.72	13[2]	1,200	61	25,000	32	130	13.0
Barium	137	59.9	89.7	140,000	910,000	14,000	870,000	--	--	110.0
Cadmium	1.69	0.7	1.23	2,000	2,800	200	59,000	--	--	0.60
Chromium	38.7	8.52	9.78	6,100	420	4,100	690	24	--	16.20
Lead	292	122	283	800	--	700	--	107	1,420	36.0
Mercury	**0.186**	**0.685**	**0.861**	610	16	61	0.1	--	--	0.06
Selenium	<1.29	<1.27	<1.29	10,000	--	1,000	--	1.8	1.8	0.48
Silver	<0.0594	<0.0588	0.0925	10,000	--	1,000	--	--	--	0.55

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 6010B/7471B
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables B through D)
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table G)
(2) Pursuant to 35 IAC 742, the background concentration may be utilized as the Tier 1 SRO for ingestion exposure route

TABLE NO. 5 Soil Sample Analytical Results: TCL Metals NWX W. 63rd St. & S. Halsted St. Lot 2/Lot 4 Chicago, Illinois			Tier 1 Soil Remediation Objectives (Tier 1 SROs)						Background Concentration in Soils[1]
			Industrial - Commercial		Construction Worker		pH-Specific Migration		
							pH = 8.75 - 9.0		
Sample ID (Interval)	**B-103 (0-3')**	**B-105 (0-3')**	**Ingestion**	**Outdoor Inhalation**	**Ingestion**	**Outdoor Inhalation**	**Class I**	**Class II**	**Metropolitan Areas**
Collection Date	**2/20/14**	**2/19/14**							
pH	**9.66**	**8.87**							
Aluminum[2]	20600	9320	1,000,000	1,000,000	200,000	870,000	--	--	9,500
Antimony	**20.6**	9.34	820	--	82	--	5	20	4
Arsenic	<1.12	<1.10	13[3]	1,200	61	25,000	33	130	13
Barium	128	99.1	140,000	910,000	14,000	870,000	--	--	110
Beryllium	1.58	1.07	4,100	2,100	410	44,000	--	--	0.59
Cadmium	2.97	0.969	2,000	2,800	200	59,000	--	--	0.6
Calcium	73600	97500	--[4]	--	--[4]	--	--	--	9,300
Chromium	35.7	9.73	6,100	420	4,100	690	21	--	16.2
Cobalt	4.48	3.37	120,000	--	12,000	--	--	--	8.9
Copper	13.8	16.4	82,000	--	8,200	--	--	--	19.6
Cyanide	<0.12	0.14	41,000	--	4,100	--	40	120	0.5
Iron	37300	10500	--	--	--	--	--	--	15,900
Lead	29.2	73.5	800	--	700	--	282	3,760	36
Magnesium	13700	19900	--[4]	--	730,000	--	--	--	4,820
Manganese	383	947	41,000	91,000	4,100	8,700	--	--	636
Mercury	**1.41**	0.0975	610	16	61	0.1	--	--	0.06
Nickel	17	8.18	41,000	21,000	4,100	440,000	--	--	18
Potassium	3130	1160	--[4]	--	--[4]	--	--		1,268
Selenium	**1.33**	<1.24	10,000	--	1,000	--	1.3	1.3	0.48
Silver	<0.0583	<0.0571	10,000	--	1,000	--	--	--	0.55
Sodium	1350	701	--[4]	--	--[4]	--	--	--	130
Thallium	<0.432	<0.424	160	--	160	--	4.9	49	0.32
Vanadium	32.6	12	14,000	--	1,400	--	980	--	25.2
Zinc	198	54.7	610,000	--	61,000	--	--	--	95

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 6010B/7471B/9014
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables B through D)
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table G)
(2) SROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (revised October 30, 2012)
(3) Pursuant to 35 IAC 742, the background concentration may be utilized as the Tier 1 SRO for ingestion exposure route
(4) Chemical-specific properties are such that this route is not of concern at any soil contaminant concentration

TABLE NO. 6 Soil Sample Analytical Results: Pesticides NWX W. 63rd St. & S. Halsted St. Lot 2/Lot 4 Chicago, Illinois			Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
			Industrial - Commercial		Construction Worker		Migration to Groundwater	
Sample ID (Interval)	B-103 (0-3')	B-105 (0-3')	Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II
Collection Date	2/20/14	2/19/14						
4,4'-DDD	<0.0100	<0.00195	24	--	520	--	16	80
4,4'-DDE	<0.0100	<0.00195	17	--	370	--	54	270
4,4'-DDT	<0.0100	<0.00195	17	1,500	100	2,100	32	160
Aldrin	<0.00500	<0.000973	0.3	6.6	6.1	9.3	0.5	2.5
alpha-BHC (a-HCH)	<0.00500	<0.000973	0.9	1.5	20	2.1	0.0005	0.003
alpha-Chlordane	<0.00500	<0.000973	--	--	--	--	--	--
b-BHC	<0.00500	<0.000973	--	--	--	--	--	--
Chlordane	<0.0996	<0.0194	16	140	100	22	10	48
d-BHC	<0.0100	<0.000973	--	--	--	--	--	--
Dieldrin	<0.0100	<0.00195	0.4	2.2	7.8	3.1	0.004	0.02
Endosulfan I	<0.00500	<0.000973	--	--	--	--	--	--
Endosulfan II	<0.0100	<0.00195	--	--	--	--	--	--
Endosulfan Sulfate	<0.0100	<0.00195	--	--	--	--	--	--
Endrin	<0.0100	<0.00195	610	--	61	--	1	5
Endrin aldehyde	<0.0100	<0.00195	--	--	--	--	--	--
Endrin ketone	<0.0100	<0.00195	--	--	--	--	--	--
g-BHC (Lindane)	<0.0100	<0.000973	4	--	96	--	0.009	0.047
g-Chlordane	<0.00500	<0.000973	--	--	--	--	--	--
Heptachlor	<0.0100	<0.000973	1	11	28	16	23	110
Heptachlor epoxide	<0.00500	<0.000973	0.6	9.2	2.7	13	0.7	3.3
Methoxychlor	<0.0500	<0.00973	10,000	--	1,000	--	160	780
Toxaphene	<0.200	<0.0389	5.2	170	110	240	31	150

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8081A
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)

TABLE NO. 7 Soil Sample Analytical Results: PCBs NWX W. 63rd St. & S. Halsted St. Lot 2/Lot 4 Chicago, Illinois			Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
			Industrial - Commercial		Construction Worker		Migration to Groundwater	
Sample ID (Interval)	B-103 (0-3')	B-105 (0-3')	Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II
Collection Date	2/20/14	2/19/14						
Aroclor 1016	<0.200	<0.0390	--	--	--	--	--	--
Aroclor 1221	<0.200	<0.0390	--	--	--	--	--	--
Aroclor 1232	<0.200	<0.0390	--	--	--	--	--	--
Aroclor 1242	<0.200	<0.0390	--	--	--	--	--	--
Aroclor 1248	<0.200	<0.0390	--	--	--	--	--	--
Aroclor 1254	<0.200	<0.0390	--	--	--	--	--	--
Aroclor 1260	<0.200	<0.0390	--	--	--	--	--	--
Total PCBs	<1.400	<0.273	1.0	--(1)	1.0	--(1)	--(1)	--(1)

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8082
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table B)
(1) Applicability requirements and methodologies for development of SROs under Tier 3 must be developed pursuant to 40 CFR Part 761

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CCDD Analytical Results

Table 1 Soil Sample Analytical Results: VOCs

Table 2 Soil Sample Analytical Results: PNAs

Table 3 Soil Sample Analytical Results: SVOCs

Table 4 Soil Sample Analytical Results: Total Priority Pollutant Metals, Barium, pH

Table 5 Soil Sample Analytical Results: Pesticides

Table 6 Soil Sample Analytical Results: PCBs

TABLE NO. 1
Soil Sample Analytical Results: VOCs
832 West 63rd Street / Chicago, Illinois

Sample ID (Interval)	T-1	T-2	T-3	Maximum Allowable Concentration
Collection Date	**10/20/14**	**10/20/14**	**10/20/14**	
1,1,1-Trichloroethane	<0.00245	<0.000909	<0.000999	2
1,1,2,2-Tetrachloroethane(1)	<0.00245	<0.000909	<0.000999	0.0035
1,1,2-Trichloroethane	<0.00245	<0.000909	<0.000999	0.02
1,1-Dichloroethane	<0.00245	<0.000909	<0.000999	23
1,1-Dichloroethene	<0.00245	<0.000909	<0.000999	0.06
1,2-Dichloroethane	<0.00245	<0.000909	<0.000999	0.02
1,2-Dichloropropane	<0.00245	<0.000909	<0.000999	0.03
2-Butanone (MEK)	<0.0245	<0.00909	<0.00999	--
2-Hexanone	<0.0612	<0.0227	<0.0250	--
4-Methyl-2-pentanone (MIBK)(1)	<0.0612	<0.0227	<0.0250	2.5
Acetone	<0.0612	<0.0227	<0.0250	25
Benzene	<0.000612	<0.000227	<0.000250	0.03
Bromodichloromethane	<0.00245	<0.000909	<0.000999	0.6
Bromoform	<0.00245	<0.000909	<0.000999	0.8
Bromomethane (Methyl Bromide)	<0.00245	<0.000909	<0.000999	0.2
Carbon Disulfide	<0.00245	<0.000909	<0.00200	9
Carbon Tetrachloride	<0.00245	<0.000909	<0.000999	0.07
Chlorobenzene	<0.00245	<0.000909	<0.000999	1
Chloroethane(1)	<0.00245	<0.000909	<0.000999	39
Chloroform	<0.00245	<0.000909	<0.000999	0.3
Chloromethane(1)	<0.00245	<0.000909	<0.000999	5
cis-1,2-Dichloroethene	<0.00245	<0.000909	<0.000999	0.4
1,3-Dichloropropene (cis + trans)	<0.00490	<0.001919	<0.001998	0.005
Dibromochloromethane	<0.00245	<0.000909	<0.000999	0.4
Ethylbenzene	<0.00245	<0.000909	<0.000999	13
Methyl Tertiary-Butyl Ether	<0.00245	<0.000909	<0.000999	0.32
Methylene Chloride	<0.0122	<0.00455	<0.00499	0.02
Styrene	<0.00245	<0.000909	<0.000999	4
Tetrachloroethene	<0.00490	<0.00182	<0.00200	0.06
Toluene	<0.00245	<0.000909	<0.000999	12
Total Xylenes	<0.00490	<0.00182	<0.00200	5.6
trans-1,2-Dichloroethene	<0.00245	<0.000909	<0.000999	0.7
Trichloroethene	<0.00245	<0.000909	<0.000999	0.06
Vinyl Chloride	<0.00245	<0.000909	<0.000999	0.01

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8260B/5035
"<" indicates not detected at stated detection limits
"--" indicates value not available
Maximum Allowable Concentrations (MACs) pursuant to 35 IAC 1100, dated 8/27/12
(1) Listed values are the most stringent SROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (October 30, 2012)

TABLE NO. 2
Soil Sample Analytical Results: PNAs
832 West 63rd Street / Chicago, Illinois

Sample ID (Interval)	T-1	T-2	T-3	Maximum Allowable Concentration
Collection Date	**10/20/14**	**10/20/14**	**10/20/14**	
Acenaphthene	< 0.04	< 0.039	< 0.04	570
Acenaphthylene[1]	< 0.04	< 0.039	< 0.04	85
Anthracene	< 0.04	< 0.039	< 0.04	12,000
Benzo(a)anthracene	< 0.04	< 0.039	< 0.04	1.8[2]
Benzo(a)pyrene	< 0.04	< 0.039	< 0.04	2.1[2]
Benzo(b)fluoranthene	< 0.04	< 0.039	< 0.04	2.1[2]
Benzo(g,h,i)perylene[1]	< 0.04	< 0.039	< 0.04	2,300
Benzo(k)fluoranthene	< 0.04	< 0.039	< 0.04	9
Chrysene	< 0.04	< 0.039	< 0.04	88
Dibenzo(a,h)anthracene	< 0.04	< 0.039	< 0.04	0.42[2]
Fluoranthene	< 0.04	< 0.039	< 0.04	3,100
Fluorene	< 0.04	< 0.039	< 0.04	560
Indeno(1,2,3-cd)pyrene	< 0.04	< 0.039	< 0.04	1.6[2]
Naphthalene	< 0.04	< 0.039	< 0.04	1.8
Phenanthrene[1]	< 0.04	< 0.039	< 0.04	210
Pyrene	< 0.04	< 0.039	< 0.04	2,300

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8270C
"<" indicates not detected at stated detection limits
Maximum Allowable Concentrations (MACs) pursuant to 35 IAC 1100, dated 8/27/12
(1) Listed values represent the most stringent Soil Remediation Objectives for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (October 30, 2012)
(2) Pursuant to 35 IAC 1100, the background concentration for Metropolitan Areas pursuant to 35 IAC 742 (Appendix A, Table H) may be used if the receiving CCDD facility is located in a Metropolitan Area

TABLE NO. 3
Soil Sample Analytical Results: SVOCs
832 West 63rd Street / Chicago, Illinois

Sample ID (Interval)	T-1	T-2	T-3	Maximum Allowable Concentration
Collection Date	**10/20/14**	**10/20/14**	**10/20/14**	
1,2,4-Trichlorobenzene	<0.298	<0.297	<0.300	5
1,2-Dichlorobenzene	<0.298	<0.297	<0.300	17
1,3-Dichlorobenzene	<0.298	<0.297	<0.300	--
1,4-Dichlorobenzene	<0.298	<0.297	<0.300	2
2, 2'-oxybis(1-chloropropane)(1)	<0.298	<0.297	<0.300	--
2,4,5-Trichlorophenol	<0.298	<0.297	<0.300	26
2,4,6-Trichlorophenol	<0.298	<0.297	<0.300	0.66
2,4-Dichlorophenol	<0.298	<0.297	<0.300	0.48
2,4-Dimethylphenol	<0.298	<0.297	<0.300	9
2,4-Dinitrophenol	<0.298	<0.297	<0.300	3.3
2,4-Dinitrotoluene	<0.298	<0.297	<0.300	0.25
2,6-Dinitrotoluene	<0.298	<0.297	<0.300	0.26
2-Chloronaphthalene(1)	<0.298	<0.297	<0.300	49
2-Chlorophenol	<0.298	<0.297	<0.300	1.5
2-Methylnaphthalene (1)	<0.298	<0.297	<0.300	1.9
2-Methylphenol (o-Cresol)	<0.298	<0.297	<0.300	15
2-Nitroaniline(1)	<0.298	<0.297	<0.300	0.7
2-Nitrophenol	<0.298	<0.297	<0.300	--
3,3´-Dichlorobenzidine	<0.298	<0.297	<0.300	1.3
3,4-Methylphenol (m,p-Cresol)(1)	<0.298	<0.297	<0.300	5.9(3)
3-Nitroaniline(1)	<0.298	<0.297	<0.300	200
4,6-Dinitro-2-methylphenol(1)	<0.298	<0.297	<0.300	0.0023(2)
4-Bromophenyl-phenyl ether	<0.298	<0.297	<0.300	--
4-Chloro-3-methylphenol	<0.298	<0.297	<0.300	--
4-Chloroaniline	<0.298	<0.297	<0.300	0.7
4-Chlorophenyl-phenyl ether	<0.298	<0.297	<0.300	--
4-Nitroaniline(1)	<0.298	<0.297	<0.300	0.14
4-Nitrophenol	<0.298	<0.297	<0.300	--
Bis(2-chloroethoxy)methane	<0.298	<0.297	<0.300	--
Bis(2-chloroethyl)ether	<0.298	<0.297	<0.300	0.66
Bis(2-ethylhexyl)phthalate	<0.298	<0.297	<0.300	46
Butylbenzylphthalate	<0.298	<0.297	<0.300	930
Carbazole	<0.298	<0.297	<0.300	0.6
Dibenzofuran(1)	<0.298	<0.297	<0.300	3
Diethylphthalate	<0.298	<0.297	<0.300	470
Dimethylphthalate	<0.298	<0.297	<0.300	--
Di-n-butylphthalate	<0.298	<0.297	<0.300	2,300
Di-n-octylphthalate	<0.298	<0.297	<0.300	1,600
Hexachlorobenzene	<0.298	<0.297	<0.300	0.4
Hexachlorobutadiene(1)	<0.298	<0.297	<0.300	2.2
Hexachlorocyclopentadiene	<0.298	<0.297	<0.300	1.1
Hexachloroethane	<0.298	<0.297	<0.300	0.5
Isophorone	<0.298	<0.297	<0.300	8
Nitrobenzene	<0.0596	<0.0594	<0.0600	0.26
N-Nitroso-di-n-propylamine	<0.298	<0.297	<0.300	0.0018
N-Nitrosodiphenylamine	<0.298	<0.297	<0.300	1
Pentachlorophenol	<0.298	<0.297	<0.300	0.02
Phenol	<0.298	<0.297	<0.300	100

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8270C
"<" indicates not detected at stated detection limits
"--" indicates value not available
Maximum Allowable Concentrations (MACs) pursuant to 35 IAC 1100, dated 8/27/12
(1) Listed values are the most stringent Soil Remediation Objectives for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (October 30, 2012)
(2) Most stringent pH-Specific value
(3) The laboratory is currently unable to separate the 3- and 4- Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported, and the more stringent Non-TACO objectives for 4,-Methylphenol are provided for comparison.

TABLE NO. 4
Soil Sample Analytical Results:
Total Priority Pollutant Metals, Barium, & pH
832 West 63rd Street / Chicago, Illinois

Sample ID (Interval)	T-1	T-2	T-3	Maximum Allowable Concentration
Collection Date	10/20/14	10/20/14	10/20/14	
pH	7.98	7.66	8.14	6.25-9.0
Antimony	3.19	3.15	3.03	5
Arsenic	1.79	<1.50	<1.47	13
Barium	16.8	14.4	12.1	1,500
Beryllium	0.164	0.176	0.15	22.0
Cadmium	0.344	0.337	0.334	5.2
Chromium	8.27	10.4	7.83	21
Copper	6.28	6.78	8.12	2,900
Lead	4.41	5.01	4.76	107
Mercury	0.0306	0.0303	0.0241	0.89
Nickel	6.98	8.59	7.66	100
Selenium	<0.500	<0.500	<0.490	1.3
Silver	<0.100	<0.100	<0.0980	4.4
Thallium	0.603	0.76	0.682	2.6
Zinc	25.8	25.4	30.2	1,000

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 6020/7471A/9012A
"<" indicates not detected at stated detection limits
“--” indicates value not available
*See Table No. 3 for SPLP result
MACs pursuant to 35 IAC 1100, dated 8/27/12

TABLE NO. 5
Soil Sample Analytical Results: Pesticides
832 West 63rd Street / Chicago, Illinois

Sample ID (Interval)	T-1	T-2	T-3	Maximum Allowable Concentration
Collection Date	**10/20/14**	**10/20/14**	**10/20/14**	
4,4'-DDD	<0.00198	<0.00199	<0.00196	3
4,4'-DDE	<0.00198	<0.00199	<0.00196	2
4,4'-DDT	<0.00198	<0.00199	<0.00196	2
Aldrin	<0.000987	<0.000993	<0.000975	0.94
alpha-BHC (a-HCH)	<0.000987	<0.000993	<0.000975	0.0074
alpha-Chlordane	<0.000987	<0.000993	<0.000975	--
b-BHC	<0.000987	<0.000993	<0.000975	--
Chlordane	<0.0197	<0.0198	<0.0194	1.8
d-BHC	<0.000987	<0.000993	<0.000975	--
Dieldrin	<0.00198	<0.00199	<0.00196	0.603
Endosulfan I	<0.000987	<0.000993	<0.000975	18
Endosulfan II	<0.00198	<0.00199	<0.00196	--
Endosulfan Sulfate	<0.00198	<0.00199	<0.00196	--
Endrin	<0.00198	<0.00199	<0.00196	1
Endrin aldehyde	<0.00198	<0.00199	<0.00196	--
Endrin ketone	<0.00198	<0.00199	<0.00196	--
g-BHC (Lindane)	<0.000987	<0.000993	<0.000975	0.009
g-Chlordane	<0.000987	<0.000993	<0.000975	--
Heptachlor	<0.000987	<0.000993	<0.000975	0.871
Heptachlor epoxide	<0.000987	<0.000993	<0.000975	1.005
Methoxychlor	<0.00987	<0.00993	<0.00975	160
Toxaphene	<0.0395	<0.0397	<0.0390	0.6

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8081
"<" indicates not detected at stated detection limits
"--" indicates value not available
Maximum Allowable Concentrations (MACs) pursuant to 35 IAC 1100, dated 8/27/12

TABLE NO. 6
Soil Sample Analytical Results: PCBs
832 West 63rd Street / Chicago, Illinois

Sample ID (Interval)	T-1	T-2	T-3	Maximum Allowable Concentration
Collection Date	**10/20/14**	**10/20/14**	**10/20/14**	
Aroclor 1016	<0.0198	<0.0199	<0.0196	--
Aroclor 1221	<0.0198	<0.0199	<0.0196	--
Aroclor 1232	<0.0198	<0.0199	<0.0196	--
Aroclor 1242	<0.0198	<0.0199	<0.0196	--
Aroclor 1248	<0.0198	<0.0199	<0.0196	--
Aroclor 1254	<0.0198	<0.0199	<0.0196	--
Aroclor 1260	<0.0198	<0.0199	<0.0196	--
Total PCBs	<0.1386	<0.1393	<0.1372	1.0

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8082
"<" indicates not detected at stated detection limits
"--" indicates value not available
Maximum Allowable Concentrations (MACs) pursuant to 35 IAC 1100, dated 8/27/12

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Soil Source Site - 2950 Centerpoint Way, Joliet, IL

Table 1 Soil Sample Analytical Results: VOCs

Table 2 Soil Sample Analytical Results: SVOCs

Table 3 Soil Sample Analytical Results: PNAs

Table 4 Soil Sample Analytical Results: TCL Metals

Table 5 Soil Sample Analytical Results: SPLP Metals

Table 6 Soil Sample Analytical Results: Pesticides

Table 7 Soil Sample Analytical Results: PCBs

TABLE NO. 1 Soil Sample Analytical Results: VOCs 2950 Centerpoint Way / Joliet, Illinois						Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
						Residential		Construction Worker		Migration to Groundwater	
Sample ID (Interval)	S-1	S-2	S-3	S-4	S-5	Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II
Collection Date	4/8/15	4/8/15	4/8/15	4/8/15	4/8/15						
1,1,1-Trichloroethane	<0.00104	<0.00101	<0.000946	<0.000969	<0.00102	--	1,200	--	1,200	2	9.6
1,1,2,2-Tetrachloroethane(1)	<0.00104	<0.00101	<0.000946	<0.000969	<0.00102	3.2	0.62	620	1.7	0.0035	0.0035
1,1,2-Trichloroethane	<0.00104	<0.00101	<0.000946	<0.000969	<0.00102	310	1,800	8,200	1,800	0.02	0.3
1,1-Dichloroethane	<0.00104	<0.00101	<0.000946	<0.000969	<0.00102	7,800	1,300	200,000	130	23	110
1,1-Dichloroethene	<0.00104	<0.00101	<0.000946	<0.000969	<0.00102	3,900	290	10,000	3.0	0.06	0.3
1,2-Dichloroethane	<0.00104	<0.00101	<0.000946	<0.000969	<0.00102	7	0.4	1,400	0.99	0.02	0.1
1,2-Dichloropropane	<0.00104	<0.00101	<0.000946	<0.000969	<0.00102	9	15	1,800	0.50	0.03	0.15
2-Butanone (MEK)(1) & (2)	<0.0104	<0.0101	<0.00946	<0.00969	<0.0102	47,000	25,000	120,000	730	17	17
2-Hexanone(1)	<0.0260	<0.0252	<0.0236	<0.0242	<0.0256	390	450	1,000	47	0.16	0.16
4-Methyl-2-pentanone (MIBK)(1)	<0.0260	<0.0252	<0.0236	<0.0242	<0.0256	6,300	3,100	160,000	340	2.5	2.5
Acetone	<0.0260	<0.0252	<0.0236	<0.0242	<0.0256	70,000	100,000	--	100,000	25	25
Benzene	<0.00026	<0.000252	<0.000236	<0.000242	<0.00025	12	0.8	2,300	2.2	0.03	0.17
Bromodichloromethane	<0.00104	<0.00101	<0.000946	<0.000969	<0.00102	10	3,000	2,000	3,000	0.6	0.6
Bromoform	<0.00104	<0.00101	<0.000946	<0.000969	<0.00102	81	53	16,000	140	0.8	0.8
Bromomethane (Methyl Bromide)	<0.00104	<0.00101	<0.000946	<0.000969	<0.00102	110	10	1,000	3.9	0.2	1.2
Carbon Disulfide	<0.00104	<0.00101	0.00112	0.00161	<0.00102	7,800	720	20,000	9.0	32	160
Carbon Tetrachloride	<0.00104	<0.00101	<0.000946	<0.000969	<0.00102	5	0.3	410	0.9	0.07	0.33
Chlorobenzene	<0.00104	<0.00101	<0.000946	<0.000969	<0.00102	1,600	130	4,100	1.3	1	6.5
Chloroethane(1)	<0.00104	<0.00101	<0.000946	<0.000969	<0.00102	--	1,500	20,000	39	--	--
Chloroform	<0.00104	<0.00101	<0.000946	<0.000969	<0.00102	100	0.3	2,000	0.76	0.6	2.9
Chloromethane(1)	<0.00104	<0.00101	<0.000946	<0.000969	<0.00102	--	110	--	5	--	--
cis-1,2-Dichloroethene	<0.00208	<0.00202	<0.001892	<0.001938	<0.00204	780	1,200	20,000	1,200	0.4	1.1
1,3-Dichloropropene (cis + trans)	<0.00104	<0.00101	<0.000946	<0.000969	<0.00102	6.4	1.1	1,200	0.39	0.004	0.02
Dibromochloromethane	<0.00104	<0.00101	<0.000946	<0.000969	<0.00102	1,600	1,300	41,000	1,300	0.4	0.4
Ethylbenzene	<0.00104	<0.00101	<0.000946	<0.000969	<0.00102	7,800	400	20,000	58	13	19
Methyl Tertiary-Butyl Ether	<0.00104	<0.00101	<0.000946	<0.000969	<0.00102	780	8,800	2,000	140	0.32	0.32
Methylene Chloride	<0.00519	<0.00503	<0.00473	<0.00484	<0.00511	85	13	12,000	34	0.02	0.2
Styrene	<0.00104	<0.00101	<0.000946	<0.000969	<0.00102	16,000	1,500	41,000	430	4	18
Tetrachloroethene	<0.00208	<0.00201	<0.00189	<0.00194	<0.00204	12	11	2,400	28	0.06	0.3
Toluene	<0.00104	<0.00101	<0.000946	<0.000969	<0.00102	16,000	650	410,000	42	12	29
Total Xylenes	<0.00208	<0.00201	<0.00189	<0.00194	<0.00204	16,000	320	41,000	5.6	150	150
trans-1,2-Dichloroethene	<0.00104	<0.00101	<0.000946	<0.000969	<0.00102	1,600	3,100	41,000	3,100	0.7	3.4
Trichloroethene	0.00135	<0.00101	<0.000946	<0.000969	<0.00102	58	5	1,200	12	0.06	0.3
Vinyl Chloride	<0.00104	<0.00101	<0.000946	<0.000969	<0.00102	0.46	0.28	170	1.1	0.01	0.07

Notes: Results listed in mg/kg (parts per million)

EPA test method SW846, 8260B/5035

Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO

"<" indicates not detected at stated detection limits

"--" indicates value not available

SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A & B)

(1) SROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (October 30, 2012)

(2) Proposed TACO Chemical

TABLE NO. 2 Soil Sample Analytical Results: SVOCs 2950 Centerpoint Way / Joliet, Illinois						Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
						Residential		Construction Worker		Migration to Groundwater	
Sample ID (Interval)	S-1	S-2	S-3	S-4	S-5	Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II
Collection Date	4/8/15	4/8/15	4/8/15	4/8/15	4/8/15						
1,2,4-Trichlorobenzene	<0.313	<0.314	<0.315	<0.312	<0.316	780	3,200	2,000	920	5	53
1,2-Dichlorobenzene	<0.313	<0.314	<0.315	<0.312	<0.316	7,000	560	18,000	310	17	43
1,3-Dichlorobenzene	<0.313	<0.314	<0.315	<0.312	<0.316	--	--	--	--	--	--
1,4-Dichlorobenzene	<0.313	<0.314	<0.315	<0.312	<0.316	--	11,000	--	340	2	11
2, 2'-oxybis(1-chloropropane)(1)	<0.313	<0.314	<0.315	<0.312	<0.316	3,100	--	8,200	--	2.4	2.4
2,4,5-Trichlorophenol	<0.313	<0.314	<0.315	<0.312	<0.316	7,800	--	200,000	--	270	1,400
2,4,6-Trichlorophenol	<0.313	<0.314	<0.315	<0.312	<0.316	58	200	11,000	540	0.2	0.77
2,4-Dichlorophenol	<0.313	<0.314	<0.315	<0.312	<0.316	230	--	610	--	1	1
2,4-Dimethylphenol	<0.313	<0.314	<0.315	<0.312	<0.316	1,600	--	41,000	--	9	9
2,4-Dinitrophenol	<0.313	<0.314	<0.315	<0.312	<0.316	160	--	410	--	0.2	0.2
2,4-Dinitrotoluene	<0.313	<0.314	<0.315	<0.312	<0.316	0.9	--	180	--	0.0008	0.0008
2,6-Dinitrotoluene	<0.313	<0.314	<0.315	<0.312	<0.316	0.9	--	180	--	0.0007	0.0007
2-Chloronaphthalene(1)	<0.313	<0.314	<0.315	<0.312	<0.316	6,300	--	41,000	--	49	240
2-Chlorophenol	<0.313	<0.314	<0.315	<0.312	<0.316	390	53,000	10,000	53,000	4	20
2-Methylnaphthalene(1) & (2)	<0.313	<0.314	<0.315	<0.312	<0.316	310	--	820	--	1.9	9.5
2-Methylphenol (o-Cresol)	<0.313	<0.314	<0.315	<0.312	<0.316	3,900	--	100,000	--	15	15
2-Nitroaniline(1)	<0.313	<0.314	<0.315	<0.312	<0.316	1,200	18	31,000	1.5	0.7	0.7
2-Nitrophenol	<0.313	<0.314	<0.315	<0.312	<0.316	--	--	--	--	--	--
3,3´-Dichlorobenzidine	<0.313	<0.314	<0.315	<0.312	<0.316	1	--	280	--	0.007	0.033
3,4-Methylphenol (m,p-Cresol)(1)	<0.313	<0.314	<0.315	<0.312	<0.316	3,900(4)	100,000(4)	4,100(4)	3,300(4)	2(4)	2(4)
3-Nitroaniline(1)	<0.313	<0.314	<0.315	<0.312	<0.316	--	--	200	--	--	--
4,6-Dinitro-2-methylphenol(1)	<0.313	<0.314	<0.315	<0.312	<0.316	6.3	--	160	--	0.0023(3)	0.0023(3)
4-Bromophenyl-phenyl ether	<0.313	<0.314	<0.315	<0.312	<0.316	--	--	--	--	--	--
4-Chloro-3-methylphenol	<0.313	<0.314	<0.315	<0.312	<0.316	--	--	--	--	--	--
4-Chloroaniline	<0.313	<0.314	<0.315	<0.312	<0.316	310	--	820	--	0.7	0.7
4-Chlorophenyl-phenyl ether	<0.313	<0.314	<0.315	<0.312	<0.316	--	--	--	--	--	--
4-Nitroaniline(1)	<0.313	<0.314	<0.315	<0.312	<0.316	310	1,500	2,000	52	0.14	0.14
4-Nitrophenol	<0.313	<0.314	<0.315	<0.312	<0.316	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	<0.313	<0.314	<0.315	<0.312	<0.316	--	--	--	--	--	--
Bis(2-chloroethyl)ether	<0.313	<0.314	<0.315	<0.312	<0.316	0.6	0.2	75	0.66	0.0004	0.0004
Bis(2-ethylhexyl)phthalate	<0.313	<0.314	<0.315	<0.312	<0.316	46	31,000	4,100	31,000	3,600	31,000
Butylbenzylphthalate	<0.313	<0.314	<0.315	<0.312	<0.316	16,000	930	410,000	930	930	930
Carbazole	<0.313	<0.314	<0.315	<0.312	<0.316	32	--	6,200	--	0.6	2.8
Dibenzofuran(1)	<0.313	<0.314	<0.315	<0.312	<0.316	78	--	820	--	3	15
Diethylphthalate	<0.313	<0.314	<0.315	<0.312	<0.316	63,000	2,000	1,000,000	2,000	470	470
Dimethylphthalate(1)	<0.313	<0.314	<0.315	<0.312	<0.316	--	--	20,000	--	--	--
Di-n-butylphthalate	<0.313	<0.314	<0.315	<0.312	<0.316	7,800	2,300	200,000	2,300	2,300	2,300
Di-n-octylphthalate	<0.313	<0.314	<0.315	<0.312	<0.316	1,600	10,000	4,100	10,000	10,000	10,000
Hexachlorobenzene	<0.313	<0.314	<0.315	<0.312	<0.316	0.4	1	78	2.6	2	11
Hexachlorobutadiene(1)	<0.313	<0.314	<0.315	<0.312	<0.316	78	--	200	--	2.2	11
Hexachlorocyclopentadiene	<0.313	<0.314	<0.315	<0.312	<0.316	550	10	14,000	1.1	400	2,200
Hexachloroethane	<0.313	<0.314	<0.315	<0.312	<0.316	78	--	2,000	--	0.5	2.6
Isophorone	<0.313	<0.314	<0.315	<0.312	<0.316	15,600	4,600	410,000	4,600	8	8
Nitrobenzene	<0.0625	<0.0627	<0.0630	<0.0624	<0.0631	39	92	1,000	9.4	0.1	0.1
N-Nitroso-di-n-propylamine	<0.313	<0.314	<0.315	<0.312	<0.316	0.09	--	18	--	0.00005	0.00005
N-Nitrosodiphenylamine	<0.313	<0.314	<0.315	<0.312	<0.316	130	--	25,000	--	1	5.6
Pentachlorophenol	<0.313	<0.314	<0.315	<0.312	<0.316	3	--	520	--	0.03	0.14
Phenol	<0.313	<0.314	<0.315	<0.312	<0.316	23,000	--	61,000	--	100	100

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8270C
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A & B)
(1) SROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (October 30, 2012)
(2) Proposed TACO Chemical
(3) Most stringent pH-Specific value
(4) The laboratory is currently unable to separate the 3- and 4- Methylphenol isomers; therefore, a combined 3,4-Methylphenol result is reported, and the more stringent Non-TACO objectives for either 3- or 4,-Methylphenol are provided for comparison.

TABLE NO. 3 Soil Sample Analytical Results: PNAs 2950 Centerpoint Way / Joliet, Illinois						Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
						Residential		Construction Worker		Migration to Groundwater	
Sample ID (Interval)	S-1	S-2	S-3	S-4	S-5	Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II
Collection Date	4/8/15	4/8/15	4/8/15	4/8/15	4/8/15						
Acenaphthene	<0.0625	<0.0627	<0.0630	<0.0624	<0.0631	4,700	--	120,000	--	570	2,900
Acenaphthylene[1]	<0.0625	<0.0627	<0.0630	<0.0624	<0.0631	2,300	--	61,000	--	85	420
Anthracene	<0.0625	<0.0627	<0.0630	<0.0624	<0.0631	23,000	--	610,000	--	12,000	59,000
Benzo(a)anthracene	<0.0625	<0.0627	<0.0630	<0.0624	<0.0631	0.9[2]/1.1[3]	--	170	--	2	8
Benzo(a)pyrene	<0.0625	<0.0627	<0.0630	<0.0624	<0.0631	0.09[2]/1.3[3]	--	17	--	8	82
Benzo(b)fluoranthene	<0.0625	<0.0627	<0.0630	<0.0624	<0.0631	0.9[2]/1.5[3]	--	170	--	5	25
Benzo(g,h,i)perylene[1]	<0.0625	<0.0627	<0.0630	<0.0624	<0.0631	2,300	--	61,000	--	27,000	130,000
Benzo(k)fluoranthene	<0.0625	<0.0627	<0.0630	<0.0624	<0.0631	9	--	1,700	--	49	250
Chrysene	<0.0625	<0.0627	<0.0630	<0.0624	<0.0631	88	--	17,000	--	160	800
Dibenzo(a,h)anthracene	<0.0625	<0.0627	<0.0630	<0.0624	<0.0631	0.09[2]/0.2[3]	--	17	--	2	7.6
Fluoranthene	<0.0625	<0.0627	<0.0630	<0.0624	<0.0631	3,100	--	82,000	--	4,300	21,000
Fluorene	<0.0625	<0.0627	<0.0630	<0.0624	<0.0631	3,100	--	82,000	--	560	2,800
Indeno(1,2,3-cd)pyrene	<0.0625	<0.0627	<0.0630	<0.0624	<0.0631	0.9	--	170	--	14	69
Naphthalene	<0.0625	<0.0627	<0.0630	<0.0624	<0.0631	1,600	170	4,100	1.8	12	18
Phenanthrene[1]	<0.0625	<0.0627	<0.0630	<0.0624	<0.0631	2,300	--	61,000	--	210	1,100
Pyrene	<0.0625	<0.0627	<0.0630	<0.0624	<0.0631	2,300	--	61,000	--	4,200	21,000

Notes: Results listed in mg/kg (parts per million)

EPA test method SW846, 8270C

Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO

"<" indicates not detected at stated detection limits

"--" indicates value not available

SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A & B)

(1) SROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (October 30, 2012)

(2) Pursuant to 35 IAC 742, the background concentration may be utilized in place of default Tier 1 SRO for ingestion exposure route

(3) Background concentration for Chicago pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table H)

TABLE NO. 4
Soil Sample Analytical Results: TCL Metals
2950 Centerpoint Way / Joliet, Illinois

Sample ID (Interval)	S-1	S-2	S-3	S-4	S-5	Tier 1 Soil Remediation Objectives (Tier 1 SROs)												Background Concentration in Soils[1]
						Residential		Construction Worker		pH-Specific Migration to Groundwater Values								
										pH = 6.25 - 6.64		pH = 6.65 - 6.89		pH = 6.9 - 7.24		pH = 7.25 - 7.74		
Collection Date	4/8/15	4/8/15	4/8/15	4/8/15	4/8/15	Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Metropolitan Areas
pH	**7.33**	**6.74**	**7.14**	**7.25**	**6.50**													
Aluminum[2]	**10900**	**10900**	**10300**	**10900**	**9980**	78,000	1,000,000	200,000	870,000	--	--	--	--	--	--	--	--	9,500
Antimony	**5.3**	4.86	4.29	4.38	4.39	31	--	82	--	5	20	5	20	5	20	5	20	4
Arsenic	5.18	5.53	3.41	4.88	6.11	13[3]	750	61	25,000	29	110	29	120	29	120	30	120	13
Barium	129	118	111	108	115	5,500	690,000	14,000	870,000	1,500	1,500	1,600	1,600	1,700	1,700	1,800	1,800	110
Beryllium	0.721	0.68	0.662	0.671	0.589	160	1,300	410	44,000	22	2,800	63	7,900	140	17,000	1,000	130,000	0.59
Cadmium	0.575	0.476	0.411	0.514	0.382	78	1,800	200	59,000	5.2	52	7.5	75	11	110	59	590	0.6
Calcium	7230	4290	5210	8750	3340	--[4]	--	--[4]	--	--	--	--	--	--	--	--	--	9,300
Chromium	13.1	13.5	13.1	13.4	12.3	230	270	4,100	690	40	--	38	--	36	--	32	--	16.2
Cobalt	**11.4**	7.08	7.93	7.29	**8.97**	4,700	--	12,000	--	--	--	--	--	--	--	--	--	8.9
Copper	17.8	19.5	21.8	19.1	16.6	2,900	--	8,200	--	59,000	59,000	130,000	130,000	200,000	200,000	330,000	330,000	19.6
Cyanide	<0.12	0.14	<0.13	<0.12	0.21	1,600	--	4,100	--	40	120	40	120	40	120	40	120	0.5
Iron	**17400**	**16900**	**16100**	**17200**	**16900**	--	--	--	--	--	--	--	--	--	--	--	--	15,900
Lead	20.5	19.1	17.8	16.8	19.7	400	--	700	--	107	1,420	107	1,420	107	1,420	107	1,420	36
Magnesium	4540	2920	3170	**4950**	2500	325,000	--	730,000	--	--	--	--	--	--	--	--	--	4,820
Manganese	**850**	422	461	356	583	1,600	69,000	4,100	8,700	--	--	--	--	--	--	--	--	636
Mercury	0.0386	0.0498	0.0431	0.0341	0.0375	23	10	61	0.1	0.89	4.4	2.1	10	3.3	16	6.4	32	0.06
Nickel	18.1	16.1	16.4	16.6	14.3	1,600	13,000	4,100	440,000	100	2,000	130	2,600	180	3,500	700	14,000	18
Potassium	1030	1100	1210	1050	873	--[4]	--	--[4]	--	--	--	--		--		--		1,268
Selenium	<1.27	<1.26	<1.29	<1.30	<1.29	390	--	1,000	--	6.3	6.3	5.2	5.2	4.5	4.5	3.3	3.3	0.48
Silver	<0.0588	<0.0583	<0.0594	<0.0600	<0.0594	390	--	1,000	--	4.4	--	8.5	--	13	--	39	--	0.55
Sodium	48.9	40.7	49.6	46.4	36.6	--[4]	--	--[4]	--	--	--	--	--	--	--	--	--	130
Thallium	2.87	1.13	1.41	1.16	1.89	6.3	--	160	--	2.6	26	2.8	28	3.0	30	3.4	34	0.32
Vanadium	25	24.6	21.5	24.8	25.2	550	--	1,400	--	980	--	980	--	980	--	980	--	25.2
Zinc	56.7	64.1	67.6	56.2	55.2	23,000	--	61,000	--	5,100	10,000	6,200	12,000	7,500	15,000	16,000	32,000	95

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 6020/7471A/9012A
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A through D)
(1) Pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix A, Table G)
(2) SROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (October 30, 2012)
(3) Pursuant to 35 IAC 742 the background concentration may be utilized as the Tier 1 SRO for ingestion exposure route
(4) Chemical-specific properties are such that this route is not of concern at any soil contaminant concentration

TABLE NO. 5
Soil Sample Analytical Results: SPLP Metals
2950 Centerpoint Way / Joliet, Illinois

Sample ID (Interval)	S-1	SPLP Class I
Collection Date	**4/8/15**	
Aluminum[(1)]	14.1	3.5
Antimony	<0.000600	0.006
Cobalt	0.00266	1
Iron	12.4	5
Manganese	0.0633	0.15

Notes: Results listed in mg/L (parts per million)
EPA test method SW846, 1311/6020 & 1311/7470A
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Table A)
(1) SROs for Non-TACO Chemicals provided by IEPA Toxicity Assessment Unit (March 14, 2011)

TABLE NO. 6 Soil Sample Analytical Results: Pesticides 2950 Centerpoint Way / Joliet, Illinois						Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
						Residential		Construction Worker		Migration to Groundwater	
Sample ID (Interval)	S-1	S-2	S-3	S-4	S-5	Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II
Collection Date	4/8/15	4/8/15	4/8/15	4/8/15	4/8/15						
4,4'-DDD	<0.00209	<0.00210	<0.00210	<0.00210	<0.00209	3	--	520	--	16	80
4,4'-DDE	<0.00209	<0.00210	<0.00210	<0.00210	<0.00209	2	--	370	--	54	270
4,4'-DDT	<0.00209	<0.00210	<0.00210	<0.00210	<0.00209	2	--	100	2,100	32	160
Aldrin	<0.00104	<0.00105	<0.00105	<0.00105	<0.00104	0.04	3	6.1	9.3	0.5	2.5
alpha-BHC (a-HCH)	<0.00104	<0.00105	<0.00105	<0.00105	<0.00104	0.1	0.8	20	2.1	0.0005	0.003
alpha-Chlordane	<0.00104	<0.00105	<0.00105	<0.00105	<0.00104	--	--	--	--	--	--
b-BHC	<0.00104	<0.00105	<0.00105	<0.00105	<0.00104	--	--	--	--	--	--
Chlordane	<0.0207	<0.0208	<0.0208	<0.0209	<0.0207	1.8	72	100	22	10	48
d-BHC	<0.00104	<0.00105	<0.00105	<0.00105	<0.00104	--	--	--	--	--	--
Dieldrin	<0.00209	<0.00210	<0.00210	<0.00210	<0.00209	0.04	1	7.8	3.1	0.004	0.02
Endosulfan I	<0.00104	<0.00105	<0.00105	<0.00105	<0.00104	--	--	--	--	--	--
Endosulfan II	<0.00209	<0.00210	<0.00210	<0.00210	<0.00209	--	--	--	--	--	--
Endosulfan Sulfate	<0.00209	<0.00210	<0.00210	<0.00210	<0.00209	--	--	--	--	--	--
Endrin	<0.00209	<0.00210	<0.00210	<0.00210	<0.00209	23	--	61	--	1	5
Endrin aldehyde	<0.00209	<0.00210	<0.00210	<0.00210	<0.00209	--	--	--	--	--	--
Endrin ketone	<0.00209	<0.00210	<0.00210	<0.00210	<0.00209	--	--	--	--	--	--
g-BHC (Lindane)	<0.00104	<0.00105	<0.00105	<0.00105	<0.00104	0.5	--	96	--	0.009	0.047
g-Chlordane	<0.00104	<0.00105	<0.00105	<0.00105	<0.00104	--	--	--	--	--	--
Heptachlor	<0.00104	<0.00105	<0.00105	<0.00105	<0.00104	0.1	0.1	28	16	23	110
Heptachlor epoxide	<0.00104	<0.00105	<0.00105	<0.00105	<0.00104	0.07	5	2.7	13	0.7	3.3
Methoxychlor	<0.0104	<0.0105	<0.0105	<0.0105	<0.0104	390	--	1,000	--	160	780
Toxaphene	<0.0416	<0.0418	<0.0418	<0.0419	<0.0416	0.6	89	110	240	31	150

Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8081
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A & B)

TABLE NO. 7 Soil Sample Analytical Results: PCBs 2950 Centerpoint Way / Joliet, Illinois						Tier 1 Soil Remediation Objectives (Tier 1 SROs)					
						Residential		Construction Worker		Migration to Groundwater	
Sample ID (Interval)	S-1	S-2	S-3	S-4	S-5	Ingestion	Outdoor Inhalation	Ingestion	Outdoor Inhalation	Class I	Class II
Collection Date	4/8/15	4/8/15	4/8/15	4/8/15	4/8/15						
Aroclor 1016	<0.0209	<0.0210	<0.0210	<0.0210	<0.0209	--	--	--	--	--	--
Aroclor 1221	<0.0209	<0.0210	<0.0210	<0.0210	<0.0209	--	--	--	--	--	--
Aroclor 1232	<0.0209	<0.0210	<0.0210	<0.0210	<0.0209	--	--	--	--	--	--
Aroclor 1242	<0.0209	<0.0210	<0.0210	<0.0210	<0.0209	--	--	--	--	--	--
Aroclor 1248	<0.0209	<0.0210	<0.0210	<0.0210	<0.0209	--	--	--	--	--	--
Aroclor 1254	<0.0209	<0.0210	<0.0210	<0.0210	<0.0209	--	--	--	--	--	--
Aroclor 1260	<0.0209	<0.0210	<0.0210	<0.0210	<0.0209	--	--	--	--	--	--
Total PCBs	<0.1463	<0.1470	<0.1470	<0.1470	<0.1463	1.0	--	1.0	--	--	--

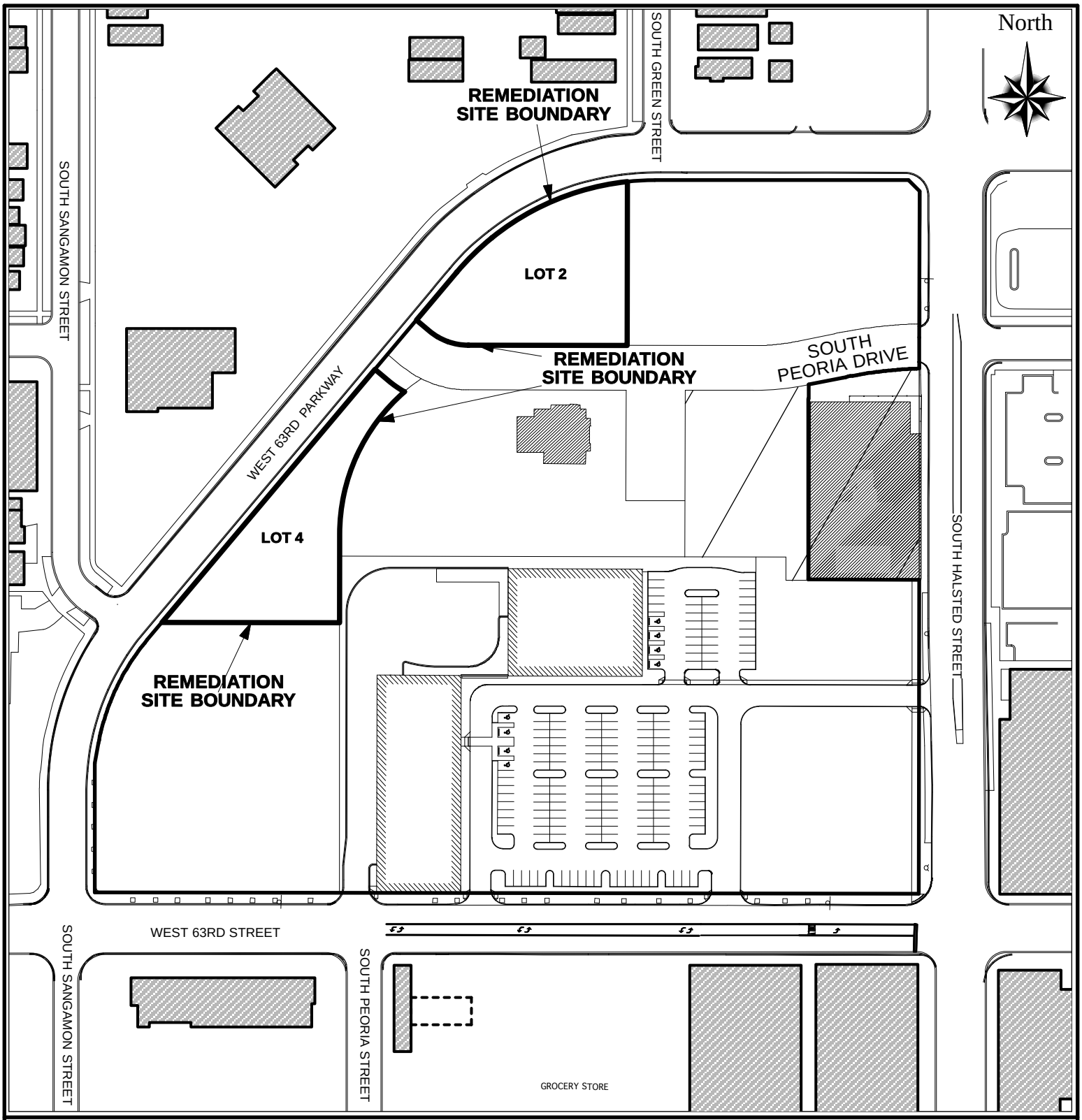
Notes: Results listed in mg/kg (parts per million)
EPA test method SW846, 8082
Shaded/Bolded cell indicates value exceeds the most stringent Tier 1 SRO
"<" indicates not detected at stated detection limits
"--" indicates value not available
SROs pursuant to 35 IAC 742-Tiered Approach to Corrective Action Objectives (Appendix B, Tables A & B)

APPENDICES

Appendix A Site Base Map, DRM 2 Form

SITE BASE MAP

LPC# 0316685080 - COOK COUNTY
CHICAGO / NWX WEST 63RD STREET & SOUTH HALSTED STREET
SITE REMEDIATION / TECHNICAL REPORTS



Legend: Remediation Site Boundary

Scale: 1" = 150'
0' 150'

Address:
NWX WEST 63RD STREET & SOUTH HALSTED STREET

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

INSTRUCTIONS TO REQUEST REVIEW OR APPROVAL OF PLANS AND REPORTS BY THE ILLINOIS EPA UNDER THE SITE REMEDIATION PROGRAM (SRP) (FORM DRM-2)

General Information

A Remediation Applicant requesting review and evaluation of Site Remediation Program (SRP) plans and reports by the Illinois Environmental Protection Agency ("Illinois EPA") or by a Review and Evaluation Licensed Professional Engineer or Geologist ("RELPEG") must complete a DRM-2 Form for each plan or report. More than one plan or report may be submitted under cover of this form.

Please read the directions carefully and ensure that all required information is provided. When completing this form, the letters "NA" may be used, but only if the requested information is not applicable. Justification must be stated for any failure to provide applicable requested information. This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to:

Illinois Environmental Protection Agency
Bureau of Land
Remedial Project Management Section
Site Remediation Program
1021 N. Grand Avenue East
PO Box 19276
Springfield, IL 62794-9276

Hand-carried documents may be delivered during normal business hours (8:30 a.m. - 5 p.m.) to the above address.

To assist in implementing with your plans or reports, once they are approved by the Illinois EPA, you should keep a copy of every submittal and any relevant correspondence sent to the Illinois EPA.

Please fill out the applicable sections on this form. The requested information is described in the directions on the following pages.

*If a Review and Evaluation Licensed Professional Engineer or Geologist ("RELPEG") has been contracted to perform review and evaluation services, one additional copy of those plan(s) or report(s) must be included with the submittal. A RELPEG is a licensed professional engineer or geologist with whom a Remediation Applicant ("RA") has contracted to perform review and evaluation services under the direction of the Illinois EPA. The use of the RELPEG is an option available to an RA to obtain additional technical evaluation resources for a project. Additional information on how a RELPEG can used in the SRP is provide in the regulations (35 Ill. Adm. Code 740.235).

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Site Remediation Program Form (DRM-2)
(To be Submitted with all Plans and Reports)

You may complete this form online, save a copy, print, sign and mail it to the address above.

I. Site Identification:

Site Name: Halsted Parkways

Street Address: Northwest Corner of West 63rd Street and South Halsted Street P.O. Box:

City: Chicago State: IL Zip Code: 60621 Phone:

Illinois Inventory ID Number: NA IEMA Incident Number: NA

II. Remediation Applicant:

Applicant's Name: Mr./Ms. Ms. Kimberly Worthington (Deputy Commissioner, 2FM) as agent for

Company: City of Chicago Department of Fleet and Facility Management

Street Address: 30 N. LaSalle Street, Suite 300 P.O. Box:

City: Chicago State: IL Zip Code: 60602-2575 Phone: 312.744.9139

Email Address: kimberly.worthington@cityofchicago.org

I hereby request that the Illinois EPA review and evaluate the attached project documents in accordance with the terms and conditions of the Environmental Protection Act (415 ILCS 5), implementing regulations, and the review and evaluation services agreement.

Remediation Applicant's Signature: Date: 7/17/15

III. Contact Person for Remediation Applicant:

Contact's Name: Mr./Ms. Kimberly Worthington (Deputy Commissioner, 2FM) as agent for

Company: City of Chicago Department of Fleet and Facility Management, Bureau of Env, Health & Safety Mgmt

Street Address: 30 N. LaSalle Street, Suite 300 P.O. Box:

City: Chicago State: IL Zip Code: 60602-2575 Phone: 312.744.9139

Email Address: kimberly.worthington@cityofchicago.org

Contact Person for Consultant:

Contact's Name: Mr./Ms. Mr. Wayne Smith, P.G.

Company: Pioneer Environmental Services, LLC

Street Address: 700 N. Sacramento Blvd, Ste 101 P.O. Box:

City: Chicago State: IL Zip Code: 60612 Phone: 773.722.9200

Email Address: wsmith@pioneerees.com

IV. Review & Evaluation Licensed Professional Engineer or Geologist ("RELPEG"), if applicable:

RELPEG's Name: Mr./Ms.

Company:

Street Address: P.O. Box:

City: State: Zip Code: Phone:

Email Address:

V. Project Documents Being Submitted:

Document Title: RACR
Date of Preparation of Plan or Report: July 21, 2015
Prepared by: Pioneer Environmental
Prepared For: Chicago Neighborhood Initiatives

Type of Document Submitted:

- ☐ Site Investigation Report - Comprehensive
- ☐ Site Investigation Report - Focused
- ☐ Remediation Objectives Report - Tier 1 or 2
- ☐ Remediation Objectives Report - Tier 3
- ☐ Remedial Action Plan
- ☑ Remedial Action Completion Report
- ☐ Sampling Plan
- ☐ Health and Safety Plan
- ☐ Community Relations Plan
- ☐ Risk Assessment
- ☐ Containment Fate & Transport Modeling
- ☐ Other: _____

Document Title: _____
Date of Preparation of Plan or Report: _____
Prepared by: _____
Prepared For: _____

Type of Document Submitted:

- ☐ Site Investigation Report - Comprehensive
- ☐ Site Investigation Report - Focused
- ☐ Remediation Objectives Report - Tier 1 or 2
- ☐ Remediation Objectives Report - Tier 3
- ☐ Remedial Action Plan
- ☐ Remedial Action Completion Report
- ☐ Sampling Plan
- ☐ Health and Safety Plan
- ☐ Community Relations Plan
- ☐ Risk Assessment
- ☐ Containment Fate & Transport Modeling
- ☐ Other: _____

Document Title: _____
Date of Preparation of Plan or Report: _____
Prepared by: _____
Prepared For: _____

Type of Document Submitted:

- ☐ Site Investigation Report - Comprehensive
- ☐ Site Investigation Report - Focused
- ☐ Remediation Objectives Report - Tier 1 or 2
- ☐ Remediation Objectives Report - Tier 3
- ☐ Remedial Action Plan
- ☐ Remedial Action Completion Report
- ☐ Sampling Plan
- ☐ Health and Safety Plan
- ☐ Community Relations Plan
- ☐ Risk Assessment
- ☐ Containment Fate & Transport Modeling
- ☐ Other: _____

VI. Professional Engineer's or Geologist's Seal or Stamp:

I attest that all site investigations or remedial activities that are subject of this plan(s) or report(s) were performed under my direction, and this document and all attachments were prepared under my direction or reviewed by me, and to the best of my knowledge and belief, the work described in the plan and report has been designed or completed in accordance with the Illinois Environmental Protection Act (415 ILCS 5), 35 Ill. Adm. Code 740, and generally accepted engineering practices or principles of professional geology, and the information presented is accurate and complete.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 Felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Engineer's or Geologist's Name: Jeffrey T. McClelland

Company: Pioneer Environmental Services, LLC

Registration Number: 062-054039 Phone: 773.722.9200

License Expiration Date: 11/15

Signature: _____ Date: 7/28/15

Professional Engineer's or Geologist's Seal or Stamp:



Note: The authority of a Licensed Professional Geologist to certify documents submitted to the Illinois Environmental Protection Agency for review and evaluation pursuant to Title XVII of the Environmental Protection Act is limited to Site Investigation Reports (415 ILCS 58.7(f)), as amended by P. A. 92-0735, effective July 25, 2002. A Licensed Professional Geologist cannot certify Remediation Objectives Reports, Remedial Action Plans or Remedial Action Completion Reports.

All information submitted is available to the public except when specifically designated by the Remediation Applicant to be treated confidentially as a trade secret or secret process in accordance with the Illinois Compiled Statutes, Section 7(a) of the Environmental Protection Act, applicable Rules and Regulations of the Illinois Pollution Control Board and applicable Illinois EPA rules and guidelines. The Illinois EPA is authorized to require this information under Sections 415 ILCS 5/58 - 58.12 of the Environmental Protection Act and regulations proumulgated thereunder. Disclosure of this information is required as a condition of participation in the Site Remediation Program. Failure to do so may prevent this form from being processed and could result in your plan(s) or report(s) being rejected. This form has been approved by the Forms Management Center.

Appendix B Photographic Log, Soil Export Summary



Excavation of north storm trap on Lot 2. Fill has been removed, CCDD approved soil not yet excavated



Excavation of north storm trap on Lot 2



Excavation of north storm trap on Lot 2



Stockpiled CCDD soil on Lot 1



Stone installed in north storm trap excavation



Stone installed in north storm trap excavation

PIONEER ENVIRONMENTAL SERVICES, LLC	Lot 2 & Lot 4 NWX W. 63rd & S. Halsted St. Chicago, Illinois	**PHOTOGRAPHIC LOG**
	Project Number: 12-0646-103	DATE: November 2014-June 2015



North storm vault installation



North storm vault installation



CCDD haul off from stockpile on Lot 2



CCDD haul off from stockpile on Lot 2



CCDD haul off from stockpile on Lot 1



CCDD haul off from stockpile on Lot 1

PIONEER ENVIRONMENTAL SERVICES, LLC	Lot 2 & Lot 4 NWX W. 63rd & S. Halsted St. Chicago, Illinois	**PHOTOGRAPHIC LOG**
	Project Number: 12-0646-103	DATE: November 2014-June 2015



West storm vault preparation



West storm vault preparation



CCDD haul off from stockpile on Lot 4



West storm vault installation on Lot 4



West storm vault installation on Lot 4



West storm vault installation on Lot 4

PIONEER ENVIRONMENTAL SERVICES, LLC	Lot 2 & Lot 4 NWX W. 63rd & S. Halsted St. Chicago, Illinois	**PHOTOGRAPHIC LOG**
	Project Number: 12-0646-103	DATE: November 2014-June 2015



Soil source stockpile in Joliet



Lot 2 - Berm fully constructed



Lot 2 - Berm fully constructed



Lot 2 - Berm fully constructed



Lot 2 excavated to 18” below grade



Lot 2 excavated and prepared for geotextile installation

PIONEER ENVIRONMENTAL SERVICES, LLC

Lot 2 & Lot 4
NWX W. 63rd & S. Halsted St.
Chicago, Illinois

PHOTOGRAPHIC LOG

Project Number: 12-0646-103

DATE: November 2014-June 2015



Lot 2 prepared for geotextile



Geotextile rolls - TenCate Mirafi 140N



Geotextile roll detail - TenCate Mirafi 140N



Loading clean soil from source site stockpile in Joliet



Installing geotextile and clean soil on Lot 2



Installation of barrier on Lot 2

PIONEER ENVIRONMENTAL SERVICES, LLC

Lot 2 & Lot 4
NWX W. 63rd & S. Halsted St.
Chicago, Illinois

PHOTOGRAPHIC LOG

Project Number: 12-0646-103

DATE: November 2014-June 2015



Barrier installation on Lot 2



Barrier installation on Lot 2



Barrier installation on Lot 2



Finished barrier on Lot 2



Finished barrier on Lot 2



Finished barrier on Lot 2

PIONEER ENVIRONMENTAL SERVICES, LLC	Lot 2 & Lot 4 NWX W. 63rd & S. Halsted St. Chicago, Illinois	**PHOTOGRAPHIC LOG**
	Project Number: 12-0646-103	DATE: November 2014-June 2015



Hay installed on Lot 2



Hay installed on Lot 2



Installation of geotextile on Lot 4



Installation of barrier on Lot 4



Installation of geotextile on Lot 4



Installation of geotextile over constructed berm on Lot 4

PIONEER ENVIRONMENTAL SERVICES, LLC	Lot 2 & Lot 4 NWX W. 63rd & S. Halsted St. Chicago, Illinois	**PHOTOGRAPHIC LOG**
	Project Number: 12-0646-103	DATE: November 2014-June 2015



Barrier on Lot 4



Finished barrier on Lot 4



Barrier constructed to boundary of Lot 4



Finished barrier on Lot 4



Finished barrier on Lot 4



Installation of hay over finished barrier on Lot 4

PIONEER ENVIRONMENTAL SERVICES, LLC

Lot 2 & Lot 4
NWX W. 63rd & S. Halsted St.
Chicago, Illinois

PHOTOGRAPHIC LOG

Project Number: 12-0646-103

DATE: November 2014-June 2015



Barrier on south portion of Lot 4



Installation of hay over finished barrier on Lot 4



Installation of hay over finished barrier on Lot 4



Barrier on Lot 4

Halsted Parkways NWX W. 63rd Street & S. Halsted Street Soil Export Tracking Summary Issued March 30, 2015						
Date	**CCDD Spoils (loads)***	**CCDD Spoils (approx. tons)[b]**	**CCDD Spoils (approx. yd^3)[a]**	**Non-Special Waste Spoils (loads)***	**Non-Special Waste Spoils (approx. tons)****	**Non-Special Waste Spoils (approx. yd^3)[a]**
12/1/14	23	459	306	- -	- -	- -
12/2/14	21	419	279	- -	- -	- -
12/3/14	16	319	213	- -	- -	- -
12/4/14	17	339	226	- -	- -	- -
12/5/14	177	3,531	2,354	44	860	585
12/8/14	- -	- -	- -	65	1,293.93	865
12/11/14	- -	- -	- -	12	238.25	160
12/12/14	- -	- -	- -	6	110.84	80
12/22/14	104	2,075	1,383	- -	- -	- -
3/27/15	26	519	346	- -	- -	- -
TOTAL	384	7,661	5,107	127	2,503	1,689

Notes: CCDD spoils were disposed at Reliable Materials in Lyons, Illinois.
Non-special waste spoils were disposed at Waste Management's Laraway RDF facility
a = volume estimate based on 13 yd^3/load
b = tonnage estimate based on standard conversion factor of 1.5 yd^3/ton
* = total loads based on subcontractor documents and verified by Pioneer
** = total tonnage based on landfill documentation

Appendix C Environmental Database Report - 2950 Centerpoint Way

Straughn Farm
2950 Centerpoint Way
Channahon, IL 60410

Inquiry Number: 4260023.2s
April 09, 2015

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

2950 CENTERPOINT WAY
CHANNAHON, IL 60410

COORDINATES

Latitude (North):	41.4392000 - 41° 26' 21.12''
Longitude (West):	88.1403000 - 88° 8' 25.08''
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	404735.1
UTM Y (Meters):	4587929.0
Elevation:	606 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	41088-D2 CHANNAHON, IL
Most Recent Revision:	1993
East Map:	41088-D1 ELWOOD, IL
Most Recent Revision:	1993

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20120619
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
2950 CENTERPOINT WAY
CHANNAHON, IL 60410

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
Reg	JOLIET ARMY AMMUNITI		DOD	Same	1 ft.
A1	STEPAN COMPANY	MILLSDALE ROAD	IL SRP	Lower	497, 0.094, NW
A2	STEPAN COMPANY TANK#	22500 WEST MILLSDALE	IL AST	Lower	651, 0.123, NW
A3	STEPAN COMPANY TANK#	22500 WEST MILLSDALE	IL AST	Lower	651, 0.123, NW
A4	STEPAN COMPANY TANK#	22500 WEST MILLSDALE	IL AST	Lower	651, 0.123, NW
A5	MILLSDALE PLANT	22500 W MILLSDALE RD	IL UST	Lower	651, 0.123, NW
A6	STEPAN CO	22500 W. MILLSDALE R	WI MANIFEST	Lower	651, 0.123, NW
A7	STEPAN COMPANY TANK#	22500 WEST MILLSDALE	IL AST	Lower	651, 0.123, NW
A8	STEPAN COMPANY TANK#	22500 WEST MILLSDALE	IL AST	Lower	651, 0.123, NW
A9	STEPAN COMPANY TANK#	22500 WEST MILLSDALE	IL AST	Lower	651, 0.123, NW
A10	STEPAN CO	I 55 AND ARSENAL RD	CORRACTS, RCRA-LQG, FTTS, HIST FTTS, NY MANIFEST,...	Lower	651, 0.123, NW
A11	STEPAN COMPANY TANK#	22500 WEST MILLSDALE	IL AST	Lower	651, 0.123, NW
A12	STEPAN COMPANY TANK#	22500 WEST MILLSDALE	IL AST	Lower	651, 0.123, NW
A13	STEPAN CO.	22500 WEST MILLSDALE	IL LUST	Lower	651, 0.123, NW
14	CENTERPOINT PROPERTI	21833 WEST MILLSDALE	IL SRP	Higher	2146, 0.406, NE
15	MCDOWELL ENERGY CENT	21100 NOEL ROAD	IL INST CONTROL, IL SRP, IL AIRS	Higher	2351, 0.445, ESE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

CERCLIS ---------- Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP ---------- CERCLIS No Further Remedial Action Planned

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls
LUCIS ---------- Land Use Control Information System

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent CERCLIS

IL SSU ---------- State Sites Unit Listing

State and tribal landfill and/or solid waste disposal site lists

IL SWF/LF ---------- Available Disposal for Solid Waste in Illinois - Solid Waste Landfills Subject to State Surcharge
IL LF SPECIAL WASTE ---------- Special Waste Site List
IL NIPC ---------- Solid Waste Landfill Inventory
IL CCDD ---------- Clean Construction or Demolition Debris

State and tribal leaking storage tank lists

IL LUST TRUST ---------- Underground Storage Tank Fund Payment Priority List
INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

INDIAN UST ---------- Underground Storage Tanks on Indian Land
FEMA UST ---------- Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

IL ENG CONTROLS ---------- Sites with Engineering Controls

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

IL BROWNFIELDS ---------- Municipal Brownfields Redevelopment Grant Program Project Descriptions

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---------- Open Dump Inventory
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL ---------- Clandestine Drug Labs
IL CDL ---------- Meth Drug Lab Site Listing
US HIST CDL ---------- National Clandestine Laboratory Register

Local Land Records

LIENS 2 ---------- CERCLA Lien Information

EXECUTIVE SUMMARY

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
IL SPILLS	State spills
IL SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
DOT OPS	Incident and Accident Data
FUDS	Formerly Used Defense Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
US MINES	Mines Master Index File
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System
RMP	Risk Management Plans
IL UIC	Underground Injection Wells
IL NPDES	A Listing of Active Permits
IL HWAR	Hazard Waste Annual Report
IL DRYCLEANERS	Illinois Licensed Drycleaners
IL IMPDMENT	Surface Impoundment Inventory
IL TIER 2	Tier 2 Information Listing
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
IL CHICAGO ENV	Environmental Records Dataset
IL PIMW	Potentially Infectious Medical Waste
IL Financial Assurance	Financial Assurance Information Listing
IL COAL ASH	Coal Ash Site Listing
IL BOL	Bureau of Land Inventory Database
US FIN ASSUR	Financial Assurance Information
COAL ASH DOE	Steam-Electric Plant Operation Data
EPA WATCH LIST	EPA WATCH LIST
LEAD SMELTERS	Lead Smelter Sites
PRP	Potentially Responsible Parties
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
2020 COR ACTION	2020 Corrective Action Program List
PCB TRANSFORMER	PCB Transformer Registration Database

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR US Hist Auto Stat	EDR Exclusive Historic Gas Stations

EXECUTIVE SUMMARY

EDR US Hist Cleaners ------- EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

IL RGA LF ---------- Recovered Government Archive Solid Waste Facilities List
IL RGA HWS ---------- Recovered Government Archive State Hazardous Waste Facilities List
IL RGA LUST ---------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 12/09/2014 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
STEPAN CO	***I 55 AND ARSENAL RD***	***NW 0 - 1/8 (0.123 mi.)***	***A10***	***16***

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 12/09/2014 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
STEPAN CO	***I 55 AND ARSENAL RD***	***NW 0 - 1/8 (0.123 mi.)***	***A10***	***16***

State and tribal leaking storage tank lists

IL LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Illinois Environmental Protection Agency's LUST Incident Report.

A review of the IL LUST list, as provided by EDR, and dated 01/16/2015 has revealed that there is 1 IL LUST site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
STEPAN CO. Incident Num: 982597 IL EPA Id: 1970350002	22500 WEST MILLSDALE	NW 0 - 1/8 (0.123 mi.)	A13	39

State and tribal registered storage tank lists

IL UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Illinois State Fire Marshal's STC Facility List.

A review of the IL UST list, as provided by EDR, and dated 01/27/2015 has revealed that there is 1 IL UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MILLSDALE PLANT Facility Id: 2010642 Tank Status: Exempt from registration Tank Status: Abandoned in place Status: CLOSED	22500 W MILLSDALE RD	NW 0 - 1/8 (0.123 mi.)	A5	10

IL AST: Listing of all aboveground tanks inspected by Office of State Fire Marshal.

A review of the IL AST list, as provided by EDR, and dated 02/24/2015 has revealed that there are 8 IL AST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
STEPAN COMPANY TANK# Occupancy Number: 001-WG-059	22500 WEST MILLSDALE	NW 0 - 1/8 (0.123 mi.)	A2	9
STEPAN COMPANY TANK# Occupancy Number: 001-WG-059	22500 WEST MILLSDALE	NW 0 - 1/8 (0.123 mi.)	A3	9
STEPAN COMPANY TANK# Occupancy Number: 001-WG-059	22500 WEST MILLSDALE	NW 0 - 1/8 (0.123 mi.)	A4	9
STEPAN COMPANY TANK# Occupancy Number: 001-WG-059	22500 WEST MILLSDALE	NW 0 - 1/8 (0.123 mi.)	A7	15

Lower Elevation	Address	Direction / Distance	Map ID	Page
STEPAN COMPANY TANK# Occupancy Number: 001-WJ-059	22500 WEST MILLSDALE	NW 0 - 1/8 (0.123 mi.)	A8	15
STEPAN COMPANY TANK# Occupancy Number: 001-WG-059	22500 WEST MILLSDALE	NW 0 - 1/8 (0.123 mi.)	A9	16
STEPAN COMPANY TANK# Occupancy Number: 001-WG-059	22500 WEST MILLSDALE	NW 0 - 1/8 (0.123 mi.)	A11	39
STEPAN COMPANY TANK# Occupancy Number: 001-WG-059	22500 WEST MILLSDALE	NW 0 - 1/8 (0.123 mi.)	A12	39

State and tribal institutional control / engineering control registries

IL INST CONTROL: Legal or administrative restrictions on land use and/or other activities (e.g., groundwater use restrictions) which effectively limit exposure to contamination may be employed as alternatives to removal or treatment of contamination.

A review of the IL INST CONTROL list, as provided by EDR, and dated 02/23/2015 has revealed that there is 1 IL INST CONTROL site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MCDOWELL ENERGY CENT Illinois EPA Id: 1970350003	***21100 NOEL ROAD***	***ESE 1/4 - 1/2 (0.445 mi.)***	***15***	***41***

State and tribal voluntary cleanup sites

IL SRP: Illinois Environmental Protection Agency, Site Remediation Program Database

A review of the IL SRP list, as provided by EDR, and dated 02/23/2015 has revealed that there are 3 IL SRP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CENTERPOINT PROPERTI IL EPA Id: 1970355052	21833 WEST MILLSDALE	NE 1/4 - 1/2 (0.406 mi.)	14	40
MCDOWELL ENERGY CENT IL EPA Id: 1970350003	***21100 NOEL ROAD***	***ESE 1/4 - 1/2 (0.445 mi.)***	***15***	***41***

Lower Elevation	Address	Direction / Distance	Map ID	Page
STEPAN COMPANY IL EPA Id: 1970350002	MILLSDALE ROAD	NW 0 - 1/8 (0.094 mi.)	A1	8

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

DOD: Consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JOLIET ARMY AMMUNITI		0 - 1/8 (0.000 mi.)	0	8

NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the NY MANIFEST list, as provided by EDR, has revealed that there is 1 NY MANIFEST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
STEPAN CO EPA ID: ILD054351770	***I 55 AND ARSENAL RD***	***NW 0 - 1/8 (0.123 mi.)***	***A10***	***16***

WI MANIFEST: Hazardous waste manifest information.

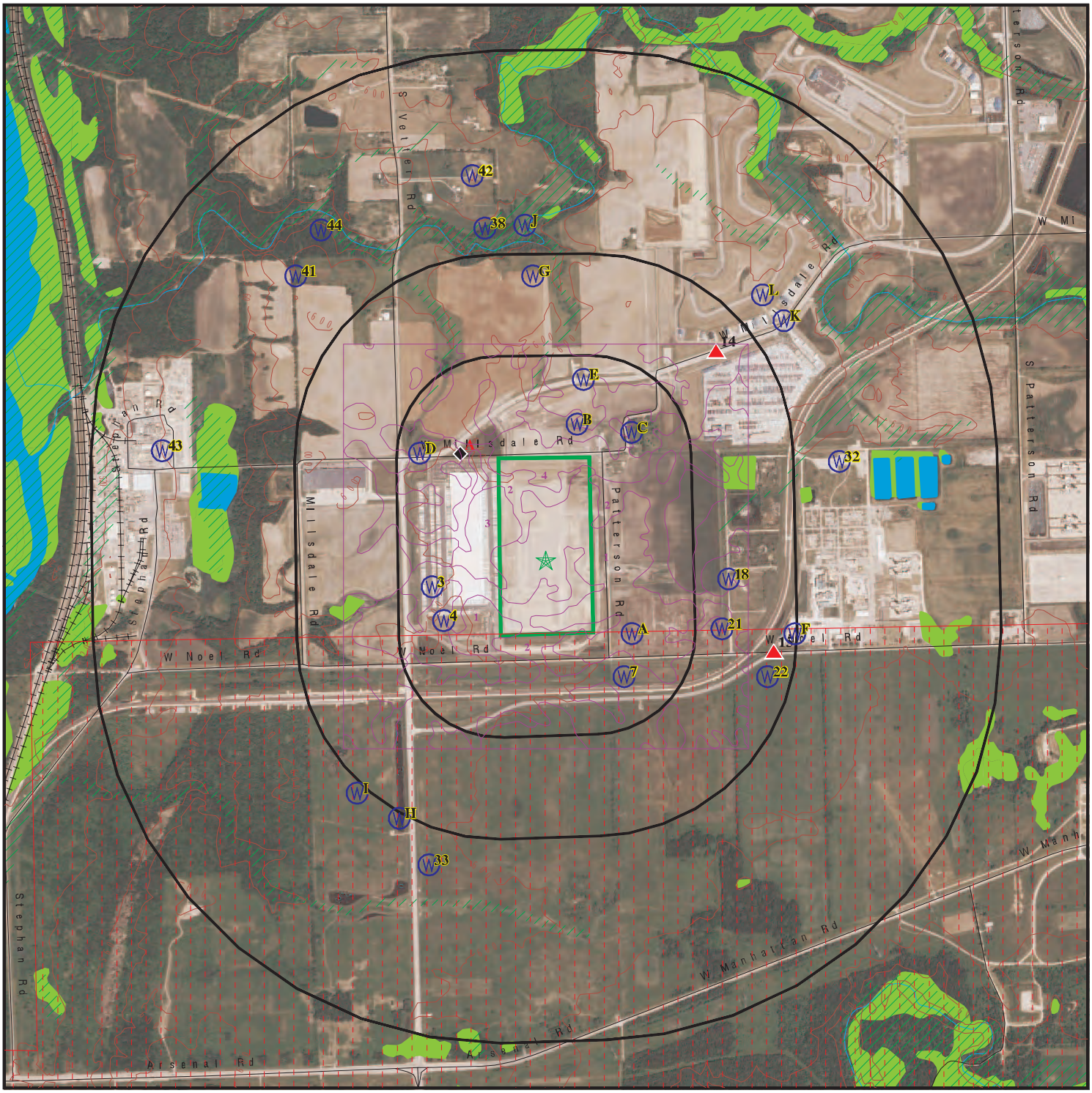
A review of the WI MANIFEST list, as provided by EDR, has revealed that there is 1 WI MANIFEST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
STEPAN CO ACT Status: A FID: 999813980 EPA ID: ILD054351770	22500 W. MILLSDALE R	NW 0 - 1/8 (0.123 mi.)	A6	11

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 4260023.2S



0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Straughn Farm	CLIENT:	Pioneer Environmental
ADDRESS:	2950 Centerpoint Way Channahon IL 60410	CONTACT:	Natalie Struble
		INQUIRY #:	4260023.2s
LAT/LONG:	41.4392 / 88.1403	DATE:	April 09, 2015 10:41 pm

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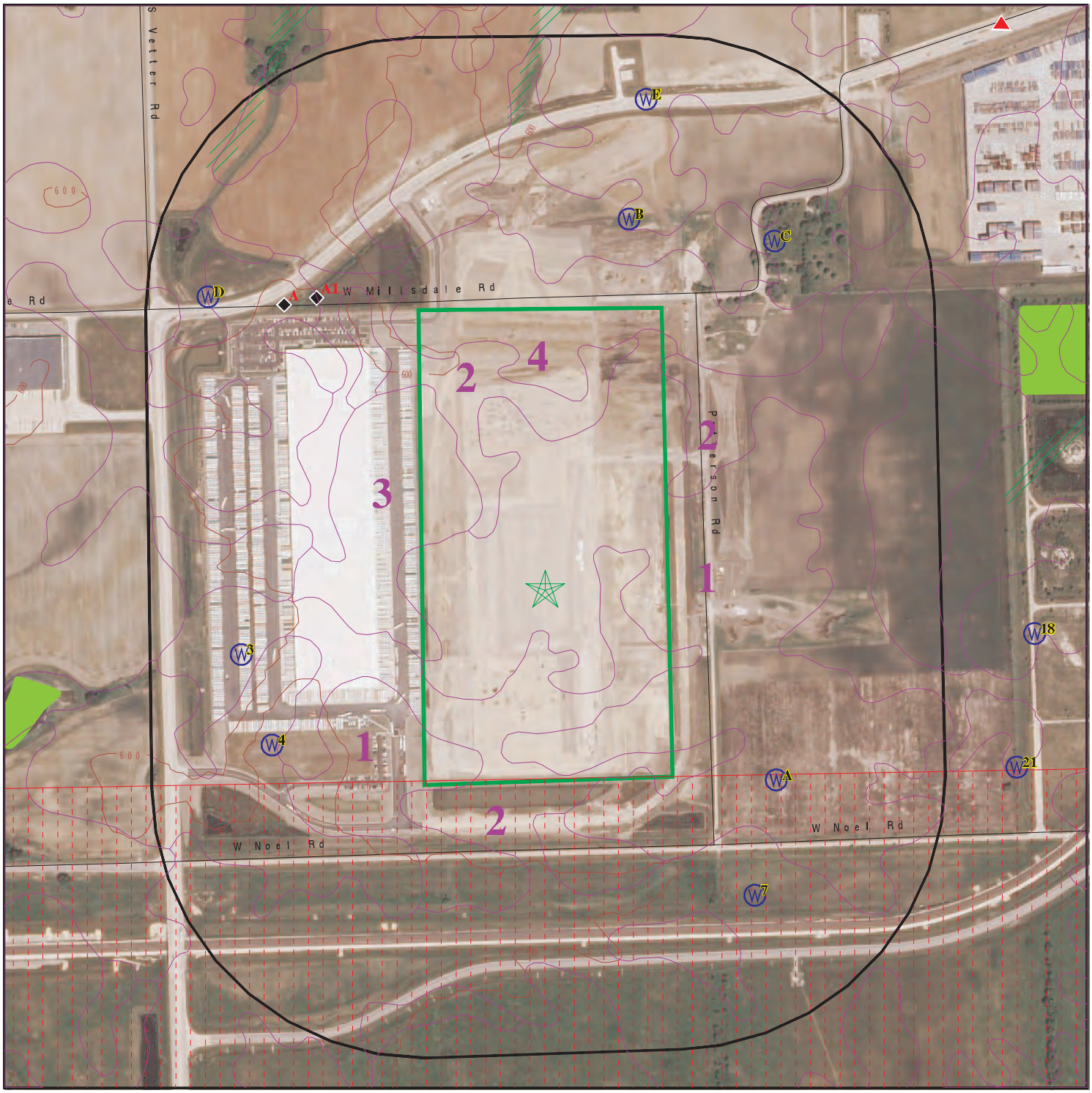
DETAIL MAP - 4260023.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/8 1/4 1/2 Miles

Indian Reservations BIA

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Straughn Farm	CLIENT:	Pioneer Environmental
ADDRESS:	2950 Centerpoint Way Channahon IL 60410	CONTACT:	Natalie Struble
LAT/LONG:	41.4392 / 88.1403	INQUIRY #:	4260023.2s
		DATE:	April 09, 2015 10:42 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		1	0	0	0	NR	1
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		1	0	NR	NR	NR	1
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
IL SSU	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
IL SWF/LF	0.500		0	0	0	NR	NR	0
IL LF SPECIAL WASTE	0.500		0	0	0	NR	NR	0
IL NIPC	0.500		0	0	0	NR	NR	0
IL CCDD	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
IL LUST	0.500		1	0	0	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
IL LUST TRUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
IL UST	0.250		1	0	NR	NR	NR	1
IL AST	0.250		8	0	NR	NR	NR	8
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
IL ENG CONTROLS	0.500		0	0	0	NR	NR	0
IL INST CONTROL	0.500		0	0	1	NR	NR	1
State and tribal voluntary cleanup sites								
IL SRP	0.500		1	0	2	NR	NR	3
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
IL BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
IL CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
IL SPILLS	TP		NR	NR	NR	NR	NR	0
IL SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		1	0	0	0	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
IL UIC	TP		NR	NR	NR	NR	NR	0
IL NPDES	TP		NR	NR	NR	NR	NR	0
IL HWAR	TP		NR	NR	NR	NR	NR	0
NY MANIFEST	0.250		1	0	NR	NR	NR	1
WI MANIFEST	0.250		1	0	NR	NR	NR	1
IL DRYCLEANERS	0.250		0	0	NR	NR	NR	0
IL IMPDMENT	0.500		0	0	0	NR	NR	0
IL AIRS	TP		NR	NR	NR	NR	NR	0
IL TIER 2	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
IL CHICAGO ENV	0.500		0	0	0	NR	NR	0
IL PIMW	0.250		0	0	NR	NR	NR	0
IL Financial Assurance	TP		NR	NR	NR	NR	NR	0
IL COAL ASH	0.500		0	0	0	NR	NR	0
IL BOL	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		0	0	NR	NR	NR	0
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
IL RGA LF	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
IL RGA HWS	TP		NR	NR	NR	NR	NR	0
IL RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	16	0	3	0	0	19

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

DOD **JOLIET ARMY AMMUNITION PLANT** **DOD** **CUSA119888**
Region **N/A**

JOLIET ARMY AMMUNITION PL (County), IL

< 1/8
1 ft.

DOD:

Feature 1:	Army DOD
Feature 2:	Not reported
Feature 3:	Not reported
URL:	Not reported
Name 1:	Joliet Army Ammunition Plant
Name 2:	Not reported
Name 3:	Not reported
State:	IL
DOD Site:	Yes
Tile name:	ILWILL

A1 **STEPAN COMPANY** **IL SRP** **S104492193**
NW **MILLSDALE ROAD** **N/A**
< 1/8 **ELWOOD, IL 60421**
0.094 mi.
497 ft. **Site 1 of 13 in cluster A**

Relative:
Lower

Actual:
601 ft.

SRP:

IL EPA Id:	1970350002
US EPA Id:	ILD054351770
Longitude:	-88.164706
Latitude:	41.445502
Contact Name:	Gary Traverso
Contact Address:	22500 West Millsdale Road
Contact City,St,Zip:	Elwood, IL 60421-9766
Contact Phone:	(815) 727-4944
Date Enrolled:	01/18/1995
Point Of Contact:	Tom Rodriquez
Consultant Company:	McLaren-Hart Engineers Midwest, Inc.
Consultant Address:	300 Stevens Drive
Consultant City,St,Zip:	Lester, PA 19113
Consultant Phone:	(610) 521-8585
Proj Mgr Assigned:	Jim Mergen
Sec. 4 Letter Date:	Not reported
Active:	No
No Further Remediation Letter Dt:	03/20/2000
Remediation Applicant Co:	Stepan Company
Effective:	True
Remediation Applicant Name:	Dwain Dodson
Remediation Applicant Company:	Stepan Company
Remediation Applicant Address:	22500 West Millsdale Road
Remediation Applicant City,St,Zip:	Elwood, IL 60421-9646
Illinois EPA:	1970350002
Site Name:	Stepan Company
NFR Letter:	2000-03-20
NFR Letter Date Recorded:	2000-04-20
Comprehensive/Focused:	Focused
Worker Caution:	No
Acres:	1
Land Use:	Residential or Industrial/Commercial
Ground Water Use Restriction:	No
Highway Authority Agreement:	No
Ordinance:	No

STEPAN COMPANY (Continued) **S104492193**

Industrial - Commercial:	No
Slab on Grade:	No
BCT:	No
Building Slab:	No
Asphalt Used:	No
Concrete Used:	No
Clean Soil 3ft:	No
Clean Soil 10ft:	No
Alternate Barrier:	No

A2 **STEPAN COMPANY TANK#6-15,618** **IL AST** **A100388039**
NW **22500 WEST MILLSDALE ROAD** **N/A**
< 1/8 **ELWOOD, IL 60421**
0.123 mi.
651 ft. **Site 2 of 13 in cluster A**

Relative:
Lower

Actual:
602 ft.

AST:

Occupancy Number:	001-WG-059
Occupant Type:	059 - ABOVE GROUND BULK STORAGE
Section Number:	WG
Property Owner Name:	STEPAN COMPANY
Type:	TANK - ABOVE GROUND BULK

A3 **STEPAN COMPANY TANK#1-22,585** **IL AST** **A100388036**
NW **22500 WEST MILLSDALE ROAD** **N/A**
< 1/8 **ELWOOD, IL 60421**
0.123 mi.
651 ft. **Site 3 of 13 in cluster A**

Relative:
Lower

Actual:
602 ft.

AST:

Occupancy Number:	001-WG-059
Occupant Type:	059 - ABOVE GROUND BULK STORAGE
Section Number:	WG
Property Owner Name:	STEPAN COMPANY
Type:	TANK - ABOVE GROUND BULK

A4 **STEPAN COMPANY TANK#5-15,618** **IL AST** **A100388038**
NW **22500 WEST MILLSDALE ROAD** **N/A**
< 1/8 **ELWOOD, IL 60421**
0.123 mi.
651 ft. **Site 4 of 13 in cluster A**

Relative:
Lower

Actual:
602 ft.

AST:

Occupancy Number:	001-WG-059
Occupant Type:	059 - ABOVE GROUND BULK STORAGE
Section Number:	WG
Property Owner Name:	STEPAN COMPANY
Type:	TANK - ABOVE GROUND BULK

A5
NW
< 1/8
0.123 mi.
651 ft.

MILLSDALE PLANT
22500 W MILLSDALE RD
ELWOOD, IL 60421

Site 5 of 13 in cluster A

IL UST **U003304786**
N/A

Relative:
Lower

Actual:
602 ft.

UST:

Facility ID:	2010642
Facility Status:	CLOSED
Facility Type:	**BULK PLANT**
Owner Id:	U0014523
Owner Name:	Stepan Co
Owner Address:	22 West Frontage Road
Owner City,St,Zip:	Northfield, IL 60093
Tank Number:	1
Tank Status:	**Exempt from registration**
Tank Capacity:	1000
Tank Substance:	Hazardous Substance
Last Used Date:	Not reported
OSFM First Notify Date:	5/8/1986
Red Tag Issue Date:	Not reported
Install Date:	Not reported
Green Tag Decal:	**Not reported**
Green Tag Issue Date:	**Not reported**
Green Tag Expire Date:	**Not reported**
Fee Due:	$0.00
Motor Fuel Permit Inspection Date:	Not reported
Motor Fuel Permit Expiration Date:	Not reported
MOTOR FUEL TYPE:	Not reported
Pending Nov:	N
IEMA:	Not reported
Equipment Type:	Not reported
Equipment:	Not reported
Last Passing Date:	Not reported
Test Expire Date:	Not reported
Tank Number:	2
Tank Status:	**Abandoned in place**
Tank Capacity:	1200
Tank Substance:	Hazardous Substance
Last Used Date:	12/1/1994
OSFM First Notify Date:	6/23/1993
Red Tag Issue Date:	Not reported
Install Date:	9/1/1956
Green Tag Decal:	**Not reported**
Green Tag Issue Date:	**Not reported**
Green Tag Expire Date:	**Not reported**
Fee Due:	$0.00
Motor Fuel Permit Inspection Date:	Not reported
Motor Fuel Permit Expiration Date:	Not reported
MOTOR FUEL TYPE:	Not reported
Pending Nov:	N
IEMA:	Not reported
Equipment Type:	Not reported
Equipment:	Not reported
Last Passing Date:	Not reported
Test Expire Date:	Not reported

MILLSDALE PLANT (Continued) **U003304786**

Tank Number:	3
Tank Status:	**Abandoned in place**
Tank Capacity:	2300
Tank Substance:	Hazardous Substance
Last Used Date:	12/21/1998
OSFM First Notify Date:	5/8/1986
Red Tag Issue Date:	Not reported
Install Date:	Not reported
Green Tag Decal:	**Not reported**
Green Tag Issue Date:	**Not reported**
Green Tag Expire Date:	**Not reported**
Fee Due:	$0.00
Motor Fuel Permit Inspection Date:	Not reported
Motor Fuel Permit Expiration Date:	Not reported
MOTOR FUEL TYPE:	Not reported
Pending Nov:	N
IEMA:	Not reported
Equipment Type:	Not reported
Equipment:	Not reported
Last Passing Date:	Not reported
Test Expire Date:	Not reported

A6 **STEPAN CO** **WI MANIFEST** **S111157353**
NW **22500 W. MILLSDALE RD.** **N/A**
< 1/8 **ELWOOD, IL 60421**
0.123 mi.
651 ft. **Site 6 of 13 in cluster A**

Relative:
Lower

Actual:
602 ft.

WI MANIFEST:

Year:	2011
EPA ID:	ILD054351770
FID:	999813980
ACT Code:	201
ACT Status:	A
ACT Code 1:	201
ACT Name:	HW Generator - Large
Contact Title:	Not reported
Contact Name:	Not reported
Contact Address:	22500 W. MILLSDALE R
Contact City/State/Zip:	ELWOOD, IL 60421
Contact Telephone:	8157274944
Contact EMail Address:	Not reported

Shipped:

Year:	2011
Manifest Doc Id:	007714874JJK
Copy Type:	TSDCOPY
Gen EPA ID:	ILD054351770
Gen Date:	01/05/2011
GEN Copy Revd Date:	Not reported
TSD Date:	01/05/2011
TSD EPA ID:	WIR000108720
TSD Copy Revd Date:	01/24/2011

Year:	2011
Manifest Doc Id:	007714957JJK
Copy Type:	TSDCOPY

STEPAN CO (Continued) **S111157353**

Gen EPA ID: ILD054351770
Gen Date: 01/27/2011
GEN Copy Revd Date: Not reported
TSD Date: 01/27/2011
TSD EPA ID: WIR000108720
TSD Copy Revd Date: 02/09/2011

Year: 2011
Manifest Doc Id: 007714985JJK
Copy Type: TSDCOPY
Gen EPA ID: ILD054351770
Gen Date: 02/09/2011
GEN Copy Revd Date: Not reported
TSD Date: 02/09/2011
TSD EPA ID: WIR000108720
TSD Copy Revd Date: 02/17/2011

Year: 2010
EPA ID: ILD054351770
FID: 999813980
ACT Code: 201
ACT Status: A
ACT Code 1: 201
ACT Name: HW Generator - Large
Contact Title: Not reported
Contact Name: Not reported
Contact Address: 22500 W. MILLSDALE R
Contact City/State/Zip: ELWOOD, IL 60421
Contact Telephone: 8157274944
Contact EMail Address: Not reported

Shipped:
Year: 2010
Manifest Doc Id: 006626156JJK
Copy Type: TSDCOPY
Gen EPA ID: ILD054351770
Gen Date: 07/28/2010
GEN Copy Revd Date: Not reported
TSD Date: 07/28/2010
TSD EPA ID: WIR000108720
TSD Copy Revd Date: 09/01/2010

Year: 2010
Manifest Doc Id: 006626499JJK
Copy Type: TSDCOPY
Gen EPA ID: ILD054351770
Gen Date: 10/15/2010
GEN Copy Revd Date: Not reported
TSD Date: 10/15/2010
TSD EPA ID: WIR000108720
TSD Copy Revd Date: 11/09/2010

Year: 2010
Manifest Doc Id: 006624813JJK
Copy Type: TSDCOPY
Gen EPA ID: ILD054351770

STEPAN CO (Continued) **S111157353**

Gen Date: 04/28/2010
GEN Copy Revd Date: Not reported
TSD Date: 04/28/2010
TSD EPA ID: WIR000108720
TSD Copy Revd Date: 06/02/2010

Year: 2010
Manifest Doc Id: 006624845JJK
Copy Type: TSDCOPY
Gen EPA ID: ILD054351770
Gen Date: 05/13/2010
GEN Copy Revd Date: Not reported
TSD Date: 05/13/2010
TSD EPA ID: WIR000108720
TSD Copy Revd Date: 06/22/2010

Year: 2010
Manifest Doc Id: 006624886JJK
Copy Type: TSDCOPY
Gen EPA ID: ILD054351770
Gen Date: 05/26/2010
GEN Copy Revd Date: Not reported
TSD Date: 05/26/2010
TSD EPA ID: WIR000108720
TSD Copy Revd Date: 07/08/2010

Year: 2010
Manifest Doc Id: 006626216JJK
Copy Type: TSDCOPY
Gen EPA ID: ILD054351770
Gen Date: 08/09/2010
GEN Copy Revd Date: Not reported
TSD Date: 08/09/2010
TSD EPA ID: WIR000108720
TSD Copy Revd Date: 09/01/2010

Year: 2010
Manifest Doc Id: 006626281JJK
Copy Type: TSDCOPY
Gen EPA ID: ILD054351770
Gen Date: 08/23/2010
GEN Copy Revd Date: Not reported
TSD Date: 08/23/2010
TSD EPA ID: WIR000108720
TSD Copy Revd Date: 09/01/2010

Year: 2010
Manifest Doc Id: 006624942JJK
Copy Type: TSDCOPY
Gen EPA ID: ILD054351770
Gen Date: 06/09/2010
GEN Copy Revd Date: Not reported
TSD Date: 06/09/2010
TSD EPA ID: WIR000108720
TSD Copy Revd Date: 07/08/2010

Year: 2010

STEPAN CO (Continued) **S111157353**

Manifest Doc Id: 006626383JJK
Copy Type: TSDCOPY
Gen EPA ID: ILD054351770
Gen Date: 09/15/2010
GEN Copy Revd Date: Not reported
TSD Date: 09/15/2010
TSD EPA ID: WIR000108720
TSD Copy Revd Date: 10/05/2010

Year: 2010
Manifest Doc Id: 006626396JJK
Copy Type: TSDCOPY
Gen EPA ID: ILD054351770
Gen Date: 09/20/2010
GEN Copy Revd Date: Not reported
TSD Date: 09/20/2010
TSD EPA ID: WIR000108720
TSD Copy Revd Date: 10/05/2010

Year: 2010
Manifest Doc Id: 007714803JJK
Copy Type: TSDCOPY
Gen EPA ID: ILD054351770
Gen Date: 12/15/2010
GEN Copy Revd Date: Not reported
TSD Date: 12/15/2010
TSD EPA ID: WIR000108720
TSD Copy Revd Date: 01/11/2011

Year: 2010
Manifest Doc Id: 007714599JJK
Copy Type: TSDCOPY
Gen EPA ID: ILD054351770
Gen Date: 11/04/2010
GEN Copy Revd Date: Not reported
TSD Date: 11/04/2010
TSD EPA ID: WIR000108720
TSD Copy Revd Date: 11/22/2010

Year: 2010
Manifest Doc Id: 007714669JJK
Copy Type: TSDCOPY
Gen EPA ID: ILD054351770
Gen Date: 11/17/2010
GEN Copy Revd Date: Not reported
TSD Date: 11/17/2010
TSD EPA ID: WIR000108720
TSD Copy Revd Date: 12/03/2010

Year: 2010
Manifest Doc Id: 007714685JJK
Copy Type: TSDCOPY
Gen EPA ID: ILD054351770
Gen Date: 11/19/2010
GEN Copy Revd Date: Not reported
TSD Date: 11/19/2010
TSD EPA ID: WIR000108720

STEPAN CO (Continued) **S111157353**

TSD Copy Revd Date: 12/03/2010

Year: 2010
Manifest Doc Id: 007714705JJK
Copy Type: TSDCOPY
Gen EPA ID: ILD054351770
Gen Date: 11/24/2010
GEN Copy Revd Date: Not reported
TSD Date: 11/24/2010
TSD EPA ID: WIR000108720
TSD Copy Revd Date: 12/09/2010

Year: 2010
Manifest Doc Id: 007714535JJK
Copy Type: TSDCOPY
Gen EPA ID: ILD054351770
Gen Date: 10/22/2010
GEN Copy Revd Date: Not reported
TSD Date: 10/22/2010
TSD EPA ID: WIR000108720
TSD Copy Revd Date: 11/09/2010

A7 **STEPAN COMPANY TANK#2-15,618** **IL AST** **A100388037**
NW **22500 WEST MILLSDALE ROAD** **N/A**
< 1/8 **ELWOOD, IL 60421**
0.123 mi.
651 ft. **Site 7 of 13 in cluster A**

Relative:
Lower

Actual:
602 ft.

AST:
Occupancy Number: 001-WG-059
Occupant Type: 059 - ABOVE GROUND BULK STORAGE
Section Number: WG
Property Owner Name: STEPAN COMPANY
Type: TANK - ABOVE GROUND BULK

A8 **STEPAN COMPANY TANK#4-15,618** **IL AST** **A100388085**
NW **22500 WEST MILLSDALE ROAD** **N/A**
< 1/8 **ELWOOD, IL 60421**
0.123 mi.
651 ft. **Site 8 of 13 in cluster A**

Relative:
Lower

Actual:
602 ft.

AST:
Occupancy Number: 001-WJ-059
Occupant Type: 059 - ABOVE GROUND BULK STORAGE
Section Number: WG
Property Owner Name: STEPAN COMPANY
Type: TANK - ABOVE GROUND BULK

A9
NW
< 1/8
0.123 mi.
651 ft.

STEPAN COMPANY TANK#-3-15,618 — **IL AST** — **A100388035**
22500 WEST MILLSDALE ROAD — **N/A**
ELWOOD, IL 60421

Site 9 of 13 in cluster A

Relative:
Lower

Actual:
602 ft.

AST:

Occupancy Number:	001-WG-059
Occupant Type:	059 - ABOVE GROUND BULK STORAGE
Section Number:	WG
Property Owner Name:	STEPAN COMPANY
Type:	TANK - ABOVE GROUND BULK

A10
NW
< 1/8
0.123 mi.
651 ft.

STEPAN CO — **CORRACTS** — **1000345120**
I 55 AND ARSENAL RD RR 1 — **RCRA-LQG** — **ILD054351770**
ELWOOD, IL 60421 — **FTTS**
HIST FTTS
NY MANIFEST
US AIRS

Site 10 of 13 in cluster A

Relative:
Lower

Actual:
602 ft.

CORRACTS:

EPA ID:	ILD054351770
EPA Region:	05
Area Name:	ENTIRE FACILITY
Actual Date:	20090501
Action:	CA070NO - RFA Determination Of Need For An RFI, RFI is Not Necessary
NAICS Code(s):	325613 325199 325611 325612 Surface Active Agent Manufacturing All Other Basic Organic Chemical Manufacturing Soap and Other Detergent Manufacturing Polish and Other Sanitation Good Manufacturing
Original schedule date:	Not reported
Schedule end date:	Not reported

EPA ID:	ILD054351770
EPA Region:	05
Area Name:	ENTIRE FACILITY
Actual Date:	19940331
Action:	CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority
NAICS Code(s):	325613 325199 325611 325612 Surface Active Agent Manufacturing All Other Basic Organic Chemical Manufacturing Soap and Other Detergent Manufacturing Polish and Other Sanitation Good Manufacturing
Original schedule date:	Not reported
Schedule end date:	Not reported

RCRA-LQG:

Date form received by agency:	03/01/2013
Facility name:	STEPAN CO
Facility address:	22500 STEPAN DR ELWOOD, IL 60421
EPA ID:	ILD054351770
Contact:	LISA CARAWAY
Contact address:	Not reported Not reported
Contact country:	Not reported

STEPAN CO (Continued) **1000345120**

Contact telephone: (815) 774-5222
Contact email: Not reported
EPA Region: 05
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: STEPAN CO
Owner/operator address: 22500 STEPAN DR
ELWOOD, IL 60421
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1956
Owner/Op end date: Not reported

Owner/operator name: STEPAN CO
Owner/operator address: 22500 STEPAN DR
ELWOOD, IL 60421
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1956
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

STEPAN CO (Continued) **1000345120**

Universal Waste Summary:
Waste type: Batteries
Accumulated waste on-site: Yes
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: Yes
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: Yes
Generated waste on-site: No

Historical Generators:
Date form received by agency: 03/01/2012
Site name: STEPAN CO
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

STEPAN CO (Continued) **1000345120**

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE(BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: K094
. Waste name: DISTILLATION BOTTOMS FROM THE PRODUCTION OF PHTHALIC ANHYDRIDE FROM ORTHO-XYLENE.

. Waste code: P028
. Waste name: BENZENE, (CHLOROMETHYL)- (OR) BENZYL CHLORIDE

. Waste code: U092
. Waste name: DIMETHYLAMINE (I) (OR) METHANAMINE, N-METHYL- (I)

. Waste code: U190
. Waste name: 1,3-ISOBENZOFURANDIONE (OR) PHTHALIC ANHYDRIDE

. Waste code: U196
. Waste name: PYRIDINE

. Waste code: U211
. Waste name: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Date form received by agency: 03/01/2012
Site name: STEPAN CO
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D019

STEPAN CO (Continued) **1000345120**

. Waste name: CARBON TETRACHLORIDE

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE(BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: K094
. Waste name: DISTILLATION BOTTOMS FROM THE PRODUCTION OF PHTHALIC ANHYDRIDE FROM ORTHO-XYLENE.

. Waste code: P028
. Waste name: BENZENE, (CHLOROMETHYL)- (OR) BENZYL CHLORIDE

. Waste code: U092
. Waste name: DIMETHYLAMINE (I) (OR) METHANAMINE, N-METHYL- (I)

. Waste code: U190
. Waste name: 1,3-ISOBENZOFURANDIONE (OR) PHTHALIC ANHYDRIDE

. Waste code: U196
. Waste name: PYRIDINE

. Waste code: U211
. Waste name: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Date form received by agency: 03/01/2010
Site name: STEPAN CO
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

STEPAN CO (Continued) **1000345120**

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE(BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: K094
. Waste name: DISTILLATION BOTTOMS FROM THE PRODUCTION OF PHTHALIC ANHYDRIDE FROM ORTHO-XYLENE.

. Waste code: U190
. Waste name: 1,3-ISOBENZOFURANDIONE (OR) PHTHALIC ANHYDRIDE

Date form received by agency: 03/01/2008
Site name: STEPAN CO
Classification: Large Quantity Generator

Date form received by agency: 03/01/2006
Site name: STEPAN CO
Classification: Large Quantity Generator

STEPAN CO (Continued) **1000345120**

Date form received by agency: 03/01/2004
Site name: STEPAN CO
Classification: Large Quantity Generator

Date form received by agency: 03/01/2002
Site name: STEPAN COMPANY
Classification: Large Quantity Generator

Date form received by agency: 03/01/2000
Site name: STEPAN COMPANY
Classification: Large Quantity Generator

Date form received by agency: 03/01/1998
Site name: STEPAN COMPANY
Classification: Large Quantity Generator

Date form received by agency: 03/01/1996
Site name: STEPAN COMPANY
Classification: Large Quantity Generator

Date form received by agency: 03/01/1994
Site name: STEPAN COMPANY
Classification: Large Quantity Generator

Date form received by agency: 03/01/1992
Site name: STEPAN COMPANY
Classification: Large Quantity Generator

Date form received by agency: 02/21/1991
Site name: STEPAN CO
Classification: Not a generator, verified

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE(BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF

STEPAN CO (Continued) **1000345120**

THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P071
. Waste name: METHYL PARATHION (OR) PHOSPHOROTHIOIC ACID, O,O,-DIMETHYL O-(4-NITROPHENYL) ESTER

. Waste code: P089
. Waste name: PARATHION (OR) PHOSPHOROTHIOIC ACID, O,O-DIETHYL-O-(4-NITROPHENYL) ESTER

. Waste code: P120
. Waste name: VANADIUM OXIDE V2O5 (OR) VANADIUM PENTOXIDE

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U012
. Waste name: ANILINE (I,T) (OR) BENZENAMINE (I,T)

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U103
. Waste name: DIMETHYL SULFATE (OR) SULFURIC ACID, DIMETHYL ESTER

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U190
. Waste name: 1,3-ISOBENZOFURANDIONE (OR) PHTHALIC ANHYDRIDE

. Waste code: U196
. Waste name: PYRIDINE

. Waste code: U211
. Waste name: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-

. Waste code: U220
. Waste name: BENZENE, METHYL- (OR) TOLUENE

. Waste code: U223
. Waste name: BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T) (OR) TOLUENE DIISOCYANATE (R,T)

. Waste code: U235
. Waste name: 1-PROPANOL, 2,3-DIBROMO-, PHOSPHATE (3:1) (OR) TRIS(2,3,-DIBROMOPROPYL) PHOSPHATE

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Date form received by agency: 02/21/1990
Site name: STEPAN COMPANY
Classification: Large Quantity Generator

Date form received by agency: 11/19/1980
Site name: STEPAN CO
Classification: Not a generator, verified

STEPAN CO (Continued) **1000345120**

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE(BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P071
. Waste name: METHYL PARATHION (OR) PHOSPHOROTHIOIC ACID, O,O,-DIMETHYL O-(4-NITROPHENYL) ESTER

. Waste code: P089
. Waste name: PARATHION (OR) PHOSPHOROTHIOIC ACID, O,O-DIETHYL-O-(4-NITROPHENYL) ESTER

. Waste code: P120
. Waste name: VANADIUM OXIDE V2O5 (OR) VANADIUM PENTOXIDE

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U012
. Waste name: ANILINE (I,T) (OR) BENZENAMINE (I,T)

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U103
. Waste name: DIMETHYL SULFATE (OR) SULFURIC ACID, DIMETHYL ESTER

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U190
. Waste name: 1,3-ISOBENZOFURANDIONE (OR) PHTHALIC ANHYDRIDE

. Waste code: U196

STEPAN CO (Continued) **1000345120**

. Waste name: PYRIDINE

. Waste code: U211
. Waste name: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-

. Waste code: U220
. Waste name: BENZENE, METHYL- (OR) TOLUENE

. Waste code: U223
. Waste name: BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T) (OR) TOLUENE DIISOCYANATE (R,T)

. Waste code: U235
. Waste name: 1-PROPANOL, 2,3-DIBROMO-, PHOSPHATE (3:1) (OR) TRIS(2,3,-DIBROMOPROPYL) PHOSPHATE

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Date form received by agency: 08/01/1980
Site name: STEPAN CO
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE(BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P071
. Waste name: METHYL PARATHION (OR) PHOSPHOROTHIOIC ACID, O,O,-DIMETHYL O-(4-NITROPHENYL) ESTER

. Waste code: P089
. Waste name: PARATHION (OR) PHOSPHOROTHIOIC ACID, O,O-DIETHYL-O-(4-NITROPHENYL) ESTER

STEPAN CO (Continued) **1000345120**

. Waste code: P120
. Waste name: VANADIUM OXIDE V2O5 (OR) VANADIUM PENTOXIDE

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U012
. Waste name: ANILINE (I,T) (OR) BENZENAMINE (I,T)

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U103
. Waste name: DIMETHYL SULFATE (OR) SULFURIC ACID, DIMETHYL ESTER

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U190
. Waste name: 1,3-ISOBENZOFURANDIONE (OR) PHTHALIC ANHYDRIDE

. Waste code: U196
. Waste name: PYRIDINE

. Waste code: U211
. Waste name: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-

. Waste code: U220
. Waste name: BENZENE, METHYL- (OR) TOLUENE

. Waste code: U223
. Waste name: BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T) (OR) TOLUENE DIISOCYANATE (R,T)

. Waste code: U235
. Waste name: 1-PROPANOL, 2,3-DIBROMO-, PHOSPHATE (3:1) (OR) TRIS(2,3,-DIBROMOPROPYL) PHOSPHATE

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 326806.3

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A

STEPAN CO (Continued) **1000345120**

CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 19760

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.
Amount (Lbs): 14

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 156

Waste code: D009
Waste name: MERCURY
Amount (Lbs): 106

Waste code: D011
Waste name: SILVER
Amount (Lbs): 106

Waste code: D018
Waste name: BENZENE
Amount (Lbs): 6505

Waste code: D019
Waste name: CARBON TETRACHLORIDE
Amount (Lbs): 50

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 1350

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 450

STEPAN CO (Continued) **1000345120**

Waste code: K094
Waste name: DISTILLATION BOTTOMS FROM THE PRODUCTION OF PHTHALIC ANHYDRIDE FROM ORTHO-XYLENE
Amount (Lbs): 219365

Waste code: P028
Waste name: BENZENE, (CHLOROMETHYL)-
Amount (Lbs): 81168

Waste code: U092
Waste name: DIMETHYLAMINE (I)
Amount (Lbs): 7073

Waste code: U190
Waste name: 1,3-ISOBENZOFURANDIONE
Amount (Lbs): 34827

Waste code: U211
Waste name: CARBON TETRACHLORIDE
Amount (Lbs): 50

Waste code: U239
Waste name: BENZENE, DIMETHYL- (I,T)
Amount (Lbs): 3200

Corrective Action Summary:
Event date: 03/31/1994
Event: CA Prioritization, Facility or area was assigned a medium corrective action priority.

Event date: 05/01/2009
Event: RFA Determination Of Need For An RFI, RFI is Not Necessary;

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 03/11/2014
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: VIOLATION NOTICE (VN)
Enforcement action date: 03/27/2014
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Permits - General Information
Date violation determined: 06/11/2008
Date achieved compliance: 01/06/2009
Violation lead agency: State
Enforcement action: VIOLATION NOTICE (VN)
Enforcement action date: 06/30/2008

STEPAN CO (Continued) **1000345120**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 05/07/1999
Date achieved compliance: 07/15/1999
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/15/1999
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 722.134(a)
Area of violation: Generators - Pre-transport
Date violation determined: 01/31/1995
Date achieved compliance: 06/23/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/23/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 725.154
Area of violation: TSD - Contingency Plan and Emergency Procedures
Date violation determined: 01/31/1995
Date achieved compliance: 06/23/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/23/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 728.150(c)
Area of violation: LDR - General
Date violation determined: 01/31/1995
Date achieved compliance: 06/23/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/23/1995
Enf. disposition status: Not reported

STEPAN CO (Continued) **1000345120**

Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 725.295(c)
Area of violation: TSD - Tank System Standards
Date violation determined: 02/21/1991
Date achieved compliance: 10/07/1991
Violation lead agency: State
Enforcement action: VIOLATION NOTICE (VN)
Enforcement action date: 04/05/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 728.150(c)
Area of violation: LDR - General
Date violation determined: 02/21/1991
Date achieved compliance: 05/21/1991
Violation lead agency: State
Enforcement action: VIOLATION NOTICE (VN)
Enforcement action date: 04/05/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 725.212(a)
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 02/21/1991
Date achieved compliance: 10/07/1991
Violation lead agency: State
Enforcement action: VIOLATION NOTICE (VN)
Enforcement action date: 04/05/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 725.242(a)
Area of violation: TSD - Financial Requirements
Date violation determined: 02/21/1991
Date achieved compliance: 10/07/1991
Violation lead agency: State
Enforcement action: VIOLATION NOTICE (VN)
Enforcement action date: 04/05/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

STEPAN CO (Continued) **1000345120**

Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 725.292(g)
Area of violation: TSD - Tank System Standards
Date violation determined: 02/21/1991
Date achieved compliance: 10/07/1991
Violation lead agency: State
Enforcement action: VIOLATION NOTICE (VN)
Enforcement action date: 04/05/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 725.295(a)
Area of violation: TSD - Tank System Standards
Date violation determined: 02/21/1991
Date achieved compliance: 10/07/1991
Violation lead agency: State
Enforcement action: VIOLATION NOTICE (VN)
Enforcement action date: 04/05/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 725.113(b)
Area of violation: TSD - General Facility Standards
Date violation determined: 02/21/1991
Date achieved compliance: 10/07/1991
Violation lead agency: State
Enforcement action: VIOLATION NOTICE (VN)
Enforcement action date: 04/05/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 703.155(a)
Area of violation: TSD - General
Date violation determined: 02/21/1991
Date achieved compliance: 10/07/1991
Violation lead agency: State
Enforcement action: VIOLATION NOTICE (VN)
Enforcement action date: 04/05/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

STEPAN CO (Continued) **1000345120**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 725.131
Area of violation: TSD - Preparedness and Prevention
Date violation determined: 02/21/1991
Date achieved compliance: 12/31/1996
Violation lead agency: State
Enforcement action: VIOLATION NOTICE (VN)
Enforcement action date: 04/05/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 703.154
Area of violation: TSD - General
Date violation determined: 02/21/1991
Date achieved compliance: 10/07/1991
Violation lead agency: State
Enforcement action: VIOLATION NOTICE (VN)
Enforcement action date: 04/05/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 728.150(b)
Area of violation: LDR - General
Date violation determined: 02/21/1991
Date achieved compliance: 10/07/1991
Violation lead agency: State
Enforcement action: VIOLATION NOTICE (VN)
Enforcement action date: 04/05/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 725.173
Area of violation: TSD - Manifest/Records/Reporting
Date violation determined: 02/21/1991
Date achieved compliance: 10/07/1991
Violation lead agency: State
Enforcement action: VIOLATION NOTICE (VN)
Enforcement action date: 04/05/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

STEPAN CO (Continued) **1000345120**

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 703.152(a)
Area of violation: TSD - General
Date violation determined: 02/21/1991
Date achieved compliance: 10/07/1991
Violation lead agency: State
Enforcement action: VIOLATION NOTICE (VN)
Enforcement action date: 04/05/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 06/11/2014
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD - General
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/12/2014
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD - General
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/11/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/30/2008
Evaluation: FOLLOW-UP INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/30/2008
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Permits - General Information
Date achieved compliance: 01/06/2009
Evaluation lead agency: State

Evaluation date: 08/25/2008
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Permits - General Information
Date achieved compliance: 01/06/2009
Evaluation lead agency: State

Evaluation date: 06/11/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Permits - General Information

STEPAN CO (Continued) **1000345120**

Date achieved compliance: 01/06/2009
Evaluation lead agency: State

Evaluation date: 07/09/2007
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/07/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 07/15/1999
Evaluation lead agency: EPA

Evaluation date: 06/15/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 10/29/1997
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/27/1995
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/31/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Preparedness and Prevention
Date achieved compliance: 12/31/1996
Evaluation lead agency: State

Evaluation date: 01/31/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Contingency Plan and Emergency Procedures
Date achieved compliance: 06/23/1995
Evaluation lead agency: State

Evaluation date: 01/31/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 06/23/1995
Evaluation lead agency: State

Evaluation date: 01/31/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 06/23/1995
Evaluation lead agency: State

STEPAN CO (Continued) **1000345120**

Evaluation date: 12/16/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Preparedness and Prevention
Date achieved compliance: 12/31/1996
Evaluation lead agency: State

Evaluation date: 02/21/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Preparedness and Prevention
Date achieved compliance: 12/31/1996
Evaluation lead agency: State

Evaluation date: 02/21/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 10/07/1991
Evaluation lead agency: State

Evaluation date: 02/21/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Manifest/Records/Reporting
Date achieved compliance: 10/07/1991
Evaluation lead agency: State

Evaluation date: 02/21/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Financial Requirements
Date achieved compliance: 10/07/1991
Evaluation lead agency: State

Evaluation date: 02/21/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Tank System Standards
Date achieved compliance: 10/07/1991
Evaluation lead agency: State

Evaluation date: 02/21/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 10/07/1991
Evaluation lead agency: State

Evaluation date: 02/21/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 05/21/1991
Evaluation lead agency: State

Evaluation date: 02/21/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 10/07/1991
Evaluation lead agency: State

Evaluation date: 02/21/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General Facility Standards

STEPAN CO (Continued) **1000345120**

Date achieved compliance: 10/07/1991
Evaluation lead agency: State

Evaluation date: 04/27/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/15/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FTTS INSP:
Inspection Number: 1989032100501 1
Region: 05
Inspection Date: 03/21/89
Inspector: WUNROW
Violation occurred: No
Investigation Type: General Product Review
Investigation Reason: Neutral Scheme, Region
Legislation Code: FIFRA
Facility Function: Producer

Inspection Number: 1989032100501 2
Region: 05
Inspection Date: 03/21/89
Inspector: WUNROW
Violation occurred: No
Investigation Type: General Product Review
Investigation Reason: Neutral Scheme, Region
Legislation Code: FIFRA
Facility Function: Marketplace

HIST FTTS INSP:
Inspection Number: 1989032100501 1
Region: 05
Inspection Date: Not reported
Inspector: WUNROW
Violation occurred: No
Investigation Type: General Product Review
Investigation Reason: Neutral Scheme, Region
Legislation Code: FIFRA
Facility Function: Producer

Inspection Number: 1989032100501 2
Region: 05
Inspection Date: Not reported
Inspector: WUNROW
Violation occurred: No
Investigation Type: General Product Review
Investigation Reason: Neutral Scheme, Region
Legislation Code: FIFRA
Facility Function: Marketplace

STEPAN CO (Continued) **1000345120**

NY MANIFEST:

EPA ID:	ILD054351770
Country:	USA
Location Address 1:	22500 WEST MILLDALE ROAD
Location Address 2:	Not reported
Location City:	ELWOOD
Location State:	IL
Location Zip Code:	60421
Location Zip Code 4:	Not reported

Mailing Info:

Name:	STEPAN COMPANY
Contact:	JOSEPH E FRULAN
Address:	22500 WEST MILL DALE ROAD
City/State/Zip:	ELWOOD, IL 60421
Country:	USA
Phone:	815-727-4944

Manifest:

Document ID:	NYB6938613
Manifest Status:	Completed copy
Trans1 State ID:	DT09846CA
Trans2 State ID:	Not reported
Generator Ship Date:	04/24/1995
Trans1 Recv Date:	04/24/1995
Trans2 Recv Date:	/ /
TSD Site Recv Date:	05/01/1995
Part A Recv Date:	05/04/1995
Part B Recv Date:	05/08/1995
Generator EPA ID:	ILD054351770
Trans1 EPA ID:	MOD095038998
Trans2 EPA ID:	Not reported
TSDF ID:	NYD048148175
Waste Code:	U151 - MERCURY
Quantity:	00010
Units:	P - Pounds
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	00010
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	1995

Document ID:	NYB7452837
Manifest Status:	Completed copy
Trans1 State ID:	FT97562CA
Trans2 State ID:	Not reported
Generator Ship Date:	04/08/1996
Trans1 Recv Date:	04/08/1996

STEPAN CO (Continued) **1000345120**

Trans2 Recv Date:	/ /
TSD Site Recv Date:	04/11/1996
Part A Recv Date:	04/17/1996
Part B Recv Date:	04/18/1996
Generator EPA ID:	ILD054351770
Trans1 EPA ID:	MOD095038998
Trans2 EPA ID:	Not reported
TSDF ID:	NYD048148175
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	00355
Units:	P - Pounds
Number of Containers:	001
Container Type:	CW - Wooden boxes
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Waste Code:	U151 - MERCURY
Quantity:	00022
Units:	P - Pounds
Number of Containers:	001
Container Type:	CW - Wooden boxes
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1996

AIRS (AFS):

Compliance and Violation Data Major Sources:

EPA plant ID:	110000432504
Plant name:	STEPAN CO
Plant address:	22500 W MILLSDALE RD ELWOOD, IL 60421
County:	WILL
Region code:	05
Dunn & Bradst #:	Not reported
Air quality cntrl region:	067
Sic code:	2869
Sic code desc:	INDUSTRIAL ORGANIC CHEMICALS, NEC
North Am. industrial classf:	325998
NAIC code description:	All Other Miscellaneous Chemical Product and Preparation Manufacturing
Default compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Default classification:	ACTUAL OR POTENTIAL EMISSIONS ARE ABOVE THE APPLICABLE MAJOR SOURCE THRESHOLDS
Govt facility:	ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT
Current HPV:	Not reported

A11
NW
< 1/8
0.123 mi.
651 ft.

STEPAN COMPANY TANK#8-11,500
22500 WEST MILLSDALE ROAD
ELWOOD, IL 60421

Site 11 of 13 in cluster A

Relative:
Lower

Actual:
602 ft.

IL AST **A100388041**
N/A

AST:

Occupancy Number:	001-WG-059
Occupant Type:	059 - ABOVE GROUND BULK STORAGE
Section Number:	WG
Property Owner Name:	STEPAN COMPANY
Type:	TANK - ABOVE GROUND BULK

A12
NW
< 1/8
0.123 mi.
651 ft.

STEPAN COMPANY TANK#7-11,500
22500 WEST MILLSDALE ROAD
ELWOOD, IL 60421

Site 12 of 13 in cluster A

Relative:
Lower

Actual:
602 ft.

IL AST **A100388040**
N/A

AST:

Occupancy Number:	001-WG-059
Occupant Type:	059 - ABOVE GROUND BULK STORAGE
Section Number:	WG
Property Owner Name:	STEPAN COMPANY
Type:	TANK - ABOVE GROUND BULK

A13
NW
< 1/8
0.123 mi.
651 ft.

STEPAN CO.
22500 WEST MILLSDALE RD.
ELWOOD, IL 60421

Site 13 of 13 in cluster A

Relative:
Lower

Actual:
602 ft.

IL LUST **S104529178**
N/A

LUST:

Incident Num:	982597
IL EPA Id:	1970350002
Product:	Non Petro
IEMA Date:	10/16/1998
Project Manager:	Charles
Project Manager Phone:	(217) 782-6762
Email:	Not reported
PRP Name:	Stepan Co.
PRP Contact:	Dan Muno
PRP Address:	22500 West Millsdale Rd.
PRP City,St,Zip:	Elwood, IL 60421
PRP Phone:	8157745201
Site Classification:	Not reported
Section 57.5(g) Letter:	731
Date Section 57.5(g) Letter:	Not reported
Non LUST Determination Letter:	Not reported
20 Report Received:	11/17/1998
45 Report Received:	Not reported
NFA/NFR Letter:	**Not reported**
NFR Date Recorded:	Not reported

14
NE
1/4-1/2
0.406 mi.
2146 ft.

CENTERPOINT PROPERTIES TRUST
21833 WEST MILLSDALE ROAD
ELWOOD, IL 60421

IL SRP **S109685113**
N/A

Relative:
Higher

Actual:
607 ft.

SRP:

IL EPA Id:	1970355052
US EPA Id:	Not reported
Longitude:	-88.144606
Latitude:	41.439143
Contact Name:	Sean Maher
Contact Address:	1808 Swift Drive
Contact City,St,Zip:	Oak Brook, IL 60523
Contact Phone:	(630) 586-8000
Date Enrolled:	05/06/2009
Point Of Contact:	Scott McSorely
Consultant Company:	Carlson Environmental, Inc.
Consultant Address:	65 East Wacker Place
Consultant City,St,Zip:	Chicago, IL 60601
Consultant Phone:	(312) 346-2140
Proj Mgr Assigned:	Jim Mergen
Sec. 4 Letter Date:	Not reported
Active:	No
No Further Remediation Letter Dt:	09/08/2009
Remediation Applicant Co:	CenterPoint Properties Trust
Effective:	True
Remediation Applicant Name:	Sean Maher
Remediation Applicant Company:	CenterPoint Properties Trust
Remediation Applicant Address:	1808 Swift Road
Remediation Applicant City,St,Zip:	Oak Brook, IL 60523
Illinois EPA:	1970355052
Site Name:	CenterPoint Properties Trust
NFR Letter:	2009-09-08
NFR Letter Date Recorded:	2009-09-17
Comprehensive/Focused:	Comprehensive
Worker Caution:	No
Acres:	88.20
Land Use:	Residential or Industrial/Commercial
Ground Water Use Restriction:	No
Highway Authority Agreement:	No
Ordinance:	No
Industrial - Commercial:	No
Slab on Grade:	No
BCT:	No
Building Slab:	No
Asphalt Used:	No
Concrete Used:	No
Clean Soil 3ft:	No
Clean Soil 10ft:	No
Alternate Barrier:	No

15
ESE
1/4-1/2
0.445 mi.
2351 ft.

MCDOWELL ENERGY CENTER
21100 NOEL ROAD
ELWOOD, IL 60421

IL INST CONTROL **S107745839**
IL SRP **N/A**
IL AIRS

Relative:
Higher

Actual:
609 ft.

IL INSTUTIONAL CONTROL:

Illinois EPA Id:	1970350003
NFR Letter:	08/10/2010
Date NFR Recorded:	08/18/2010
Comprehensive / Focused:	Focused
Remediation Applicant Name:	Laura Artis
RA Company:	CenterPoint Joliet Terminal Railroad
RA Address:	1808 Swift Road
RA City,St,Zip:	Oak Brook, IL 60601
Worker Caution:	No
Acres:	67.5
Land Use:	Industrial/Commercial
Ground Water Use Restriction:	Yes
Highway Authority Agreement:	No
Ordinance:	No
Industrial - Commercial:	Yes
Slab on Grade:	No
BCT:	Yes
Building Slab:	No
Asphalt Used:	No
Concrete Used:	No
Clean Soil 3ft:	No
Clean Soil 10ft:	No
Alternate Barrier:	No

Illinois EPA Id:	1970350003
NFR Letter:	11/19/2008
Date NFR Recorded:	12/10/2008
Comprehensive / Focused:	Focused
Remediation Applicant Name:	Steven Matuszak
RA Company:	Peoples Energy Resources Company, LLC
RA Address:	130 East Randolph Drive
RA City,St,Zip:	Chicago, IL 60601
Worker Caution:	No
Acres:	82.35
Land Use:	Industrial/Commercial
Ground Water Use Restriction:	No
Highway Authority Agreement:	No
Ordinance:	No
Industrial - Commercial:	Yes
Slab on Grade:	No
BCT:	No
Building Slab:	No
Asphalt Used:	No
Concrete Used:	No
Clean Soil 3ft:	No
Clean Soil 10ft:	No
Alternate Barrier:	No

SRP:

IL EPA Id:	1970350003
US EPA Id:	ILD069503027
Longitude:	-88.130084

MCDOWELL ENERGY CENTER (Continued) **S107745839**

Latitude:	41.440102
Contact Name:	Laura Artus
Contact Address:	1808 Swift Drive
Contact City,St,Zip:	Oak Brook, IL 60523
Contact Phone:	(630) 250-2900
Date Enrolled:	06/11/2007
Point Of Contact:	Mark V. Castro
Consultant Company:	Carlson Environmental, Inc.
Consultant Address:	65 East Wacker Place
Consultant City,St,Zip:	Chicago, IL 60601
Consultant Phone:	(312) 899-0634
Proj Mgr Assigned:	Jennifer Seul
Sec. 4 Letter Date:	Not reported
Active:	No
No Further Remediation Letter Dt:	11/19/2008
Remediation Applicant Co:	Centerpoint Joliet Terminal Railroad LLC
Effective:	True
Remediation Applicant Name:	Steven Matuszak
Remediation Applicant Company:	Peoples Energy Resources Company, LLC
Remediation Applicant Address:	130 East Randolph Drive
Remediation Applicant City,St,Zip:	Chicago, IL 60601
Illinois EPA:	1970350003
Site Name:	Peoples Energy Resources
NFR Letter:	2008-11-19
NFR Letter Date Recorded:	2008-12-10
Comprehensive/Focused:	Focused
Worker Caution:	No
Acres:	82.35
Land Use:	Industrial/Commercial
Ground Water Use Restriction:	No
Highway Authority Agreement:	No
Ordinance:	No
Industrial - Commercial:	Yes
Slab on Grade:	No
BCT:	No
Building Slab:	No
Asphalt Used:	No
Concrete Used:	No
Clean Soil 3ft:	No
Clean Soil 10ft:	No
Alternate Barrier:	No

Remediation Applicant Name:	Laura Artis
Remediation Applicant Company:	CenterPoint Joliet Terminal Railroad
Remediation Applicant Address:	1808 Swift Road
Remediation Applicant City,St,Zip:	Oak Brook, IL 60601
Illinois EPA:	1970350003
Site Name:	McDowell Energy Center
NFR Letter:	2010-08-10
NFR Letter Date Recorded:	2010-08-18
Comprehensive/Focused:	Focused
Worker Caution:	No
Acres:	67.5
Land Use:	Industrial/Commercial
Ground Water Use Restriction:	Yes
Highway Authority Agreement:	No
Ordinance:	No

MCDOWELL ENERGY CENTER (Continued) **S107745839**

Industrial - Commercial:	Yes
Slab on Grade:	No
BCT:	Yes
Building Slab:	No
Asphalt Used:	No
Concrete Used:	No
Clean Soil 3ft:	No
Clean Soil 10ft:	No
Alternate Barrier:	No

IL EPA Id:	1970350003
US EPA Id:	ILD069503027
Longitude:	-88.130084
Latitude:	41.440102
Contact Name:	Laura Artus
Contact Address:	1808 Swift Drive
Contact City,St,Zip:	Oak Brook, IL 60523
Contact Phone:	(630) 250-2900
Date Enrolled:	06/11/2007
Point Of Contact:	Mark V. Castro
Consultant Company:	Carlson Environmental, Inc.
Consultant Address:	65 East Wacker Place
Consultant City,St,Zip:	Chicago, IL 60601
Consultant Phone:	(312) 899-0634
Proj Mgr Assigned:	Jennifer Seul
Sec. 4 Letter Date:	Not reported
Active:	No
No Further Remediation Letter Dt:	08/10/2010
Remediation Applicant Co:	Centerpoint Joliet Terminal Railroad LLC
Effective:	True
Remediation Applicant Name:	Steven Matuszak
Remediation Applicant Company:	Peoples Energy Resources Company, LLC
Remediation Applicant Address:	130 East Randolph Drive
Remediation Applicant City,St,Zip:	Chicago, IL 60601
Illinois EPA:	1970350003
Site Name:	Peoples Energy Resources
NFR Letter:	2008-11-19
NFR Letter Date Recorded:	2008-12-10
Comprehensive/Focused:	Focused
Worker Caution:	No
Acres:	82.35
Land Use:	Industrial/Commercial
Ground Water Use Restriction:	No
Highway Authority Agreement:	No
Ordinance:	No
Industrial - Commercial:	Yes
Slab on Grade:	No
BCT:	No
Building Slab:	No
Asphalt Used:	No
Concrete Used:	No
Clean Soil 3ft:	No
Clean Soil 10ft:	No
Alternate Barrier:	No

Remediation Applicant Name:	Laura Artis

MCDOWELL ENERGY CENTER (Continued) **S107745839**

Remediation Applicant Company:	CenterPoint Joliet Terminal Railroad
Remediation Applicant Address:	1808 Swift Road
Remediation Applicant City,St,Zip:	Oak Brook, IL 60601
Illinois EPA:	1970350003
Site Name:	McDowell Energy Center
NFR Letter:	2010-08-10
NFR Letter Date Recorded:	2010-08-18
Comprehensive/Focused:	Focused
Worker Caution:	No
Acres:	67.5
Land Use:	Industrial/Commercial
Ground Water Use Restriction:	Yes
Highway Authority Agreement:	No
Ordinance:	No
Industrial - Commercial:	Yes
Slab on Grade:	No
BCT:	Yes
Building Slab:	No
Asphalt Used:	No
Concrete Used:	No
Clean Soil 3ft:	No
Clean Soil 10ft:	No
Alternate Barrier:	No

IL AIRS:

Facility ID:	23836
ID Number:	197808AAI
Year:	Not reported
Contact Name:	Not reported
Contact Title:	Not reported
Contact Tele:	Not reported
Contact Extention:	Not reported
Contact EMail:	Not reported
Contact Fax:	Not reported
Cease Operation Date:	3/26/2002
SIC Code:	1611
Address Type Code:	LOC

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/16/2014
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: EPA
Telephone: N/A
Last EDR Contact: 04/08/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/16/2014
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: EPA
Telephone: N/A
Last EDR Contact: 04/08/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/16/2014
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: EPA
Telephone: N/A
Last EDR Contact: 04/08/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 04/02/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/21/2014
Date Data Arrived at EDR: 10/07/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/08/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 04/02/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 09/18/2014
Date Data Arrived at EDR: 09/19/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 09/18/2014
Date Data Arrived at EDR: 09/19/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/03/2014
Date Data Arrived at EDR: 12/12/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 48

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/29/2014
Date Data Arrived at EDR: 09/30/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 37

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SSU: State Sites Unit Listing

The State Response Action Program database identifies the status of all sites under the responsibility of the Illinois EPA's State Sites Unit.

Date of Government Version: 08/12/2014
Date Data Arrived at EDR: 08/14/2014
Date Made Active in Reports: 09/11/2014
Number of Days to Update: 28

Source: Illinois Environmental Protection Agency
Telephone: 217-524-4826
Last EDR Contact: 01/30/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Semi-Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Available Disposal for Solid Waste in Illinois - Solid Waste Landfills Subject to State Surcharge
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/31/2014
Date Made Active in Reports: 09/08/2014
Number of Days to Update: 39
Source: Illinois Environmental Protection Agency
Telephone: 217-785-8604
Last EDR Contact: 01/30/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Annually

LF WMRC: Waste Management & Research Center Landfill Database
The Waste Management & Research Center Landfill Database includes records from the Department of Public Health, Department of Mines & Minerals, Illinois Environmental Protection Agency, State Geological Survey, Northeastern Illinois Planning Commission and Pollution Control Board.

Date of Government Version: 12/31/2001
Date Data Arrived at EDR: 10/06/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 31
Source: Department of Natural Resources
Telephone: 217-333-8940
Last EDR Contact: 09/18/2009
Next Scheduled EDR Contact: 12/28/2009
Data Release Frequency: No Update Planned

LF SPECIAL WASTE: Special Waste Site List
These landfills, as of January 1, 1990, accept non-hazardous special waste pursuant to the Illinois EPA Non-Hazardous Special Waste Definition. List A includes landfills that may receive any non-hazardous waste, Non-Regional Pollution Control Facilities are so noted. List B includes landfills designed to receive specific non-hazardous wastes. List B landfills are designated as a Regional Pollution Control Facility by RPCF, or Non-Regional Pollution Control Facility by Non-RPCF.

Date of Government Version: 01/01/1990
Date Data Arrived at EDR: 06/17/2009
Date Made Active in Reports: 07/15/2009
Number of Days to Update: 28
Source: Illinois EPA
Telephone: 217-782-9288
Last EDR Contact: 06/10/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IL NIPC: Solid Waste Landfill Inventory
Solid Waste Landfill Inventory. NIPC is an inventory of active and inactive solid waste disposal sites, based on state, local government and historical archive data. Included are numerous sites which previously had never been identified largely because there was no obligation to register such sites prior to 1971.

Date of Government Version: 08/01/1988
Date Data Arrived at EDR: 08/01/1994
Date Made Active in Reports: 08/12/1994
Number of Days to Update: 11
Source: Northeastern Illinois Planning Commission
Telephone: 312-454-0400
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CCDD: Clean Construction or Demolition Debris
Construction and demolition (C and D) debris is nonhazardous, uncontaminated material resulting from construction, remodeling, repair, or demolition of utilities, structures, and roads.

Date of Government Version: 01/26/2015
Date Data Arrived at EDR: 01/28/2015
Date Made Active in Reports: 02/24/2015
Number of Days to Update: 27
Source: Illinois EPA
Telephone: 217-524-3300
Last EDR Contact: 01/28/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

State and tribal leaking storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST: Leaking Underground Storage Tank Sites

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 01/16/2015
Date Data Arrived at EDR: 01/28/2015
Date Made Active in Reports: 02/24/2015
Number of Days to Update: 27

Source: Illinois Environmental Protection Agency
Telephone: 217-782-6762
Last EDR Contact: 01/28/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Semi-Annually

LUST TRUST: Underground Storage Tank Fund Payment Prioirty List

In case sufficient funds are not available in the Underground Storage Tank Fund, requests for payment are entered on the Payment Priority List by "queue date" order. As required by the Environmental Protection Act, the queue date is the date that a complete request for partial or final payment was received by the Agency. The queue date is "officially" confirmed at the end of the payment review process when a Final Decision Letter is sent to the site owner.

Date of Government Version: 01/21/2015
Date Data Arrived at EDR: 01/28/2015
Date Made Active in Reports: 02/24/2015
Number of Days to Update: 27

Source: Illinois EPA
Telephone: 217-782-6762
Last EDR Contact: 01/28/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 184

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/30/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 01/30/2015
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 32

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/03/2015
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 29

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/08/2015
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/08/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 01/28/2015
Date Data Arrived at EDR: 01/30/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 42
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/10/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 31
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 09/30/2014
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 10
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Semi-Annually

State and tribal registered storage tank lists

UST: Underground Storage Tank Facility List
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 01/27/2015
Date Data Arrived at EDR: 01/28/2015
Date Made Active in Reports: 02/24/2015
Number of Days to Update: 27
Source: Illinois State Fire Marshal
Telephone: 217-785-0969
Last EDR Contact: 01/28/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

AST: Above Ground Storage Tanks
Listing of all aboveground tanks inspected by Office of State Fire Marshal.

Date of Government Version: 02/24/2015
Date Data Arrived at EDR: 03/11/2015
Date Made Active in Reports: 03/23/2015
Number of Days to Update: 12
Source: State Fire Marshal
Telephone: 217-785-1011
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 28

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 01/27/2014
Number of Days to Update: 271

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/30/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 01/30/2015
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 36

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 09/30/2014
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 10

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/03/2015
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 29

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 12/14/2014
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 28

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 01/29/2015
Date Data Arrived at EDR: 01/30/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 42

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/12/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Sites with Engineering Controls

Sites using of engineered barriers (e.g., asphalt or concrete paving).

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/25/2015
Date Made Active in Reports: 03/11/2015
Number of Days to Update: 14

Source: Illinois Environmental Protection Agency
Telephone: 217-782-6761
Last EDR Contact: 02/25/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Quarterly

Inst Control: Institutional Controls

Legal or administrative restrictions on land use and/or other activities (e.g., groundwater use restrictions) which effectively limit exposure to contamination may be employed as alternatives to removal or treatment of contamination.

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/25/2015
Date Made Active in Reports: 03/11/2015
Number of Days to Update: 14

Source: Illinois Environmental Protection Agency
Telephone: 217-782-6761
Last EDR Contact: 02/25/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/29/2014
Date Data Arrived at EDR: 10/01/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 36

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 04/02/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

SRP: Site Remediation Program Database

The database identifies the status of all voluntary remediation projects administered through the pre-notice site cleanup program (1989 to 1995) and the site remediation program (1996 to the present).

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/25/2015
Date Made Active in Reports: 03/11/2015
Number of Days to Update: 14

Source: Illinois Environmental Protection Agency
Telephone: 217-785-9407
Last EDR Contact: 02/25/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Semi-Annually

State and tribal Brownfields sites

BROWNFIELDS: Municipal Brownfields Redevelopment Grant Program Project Descriptions

The Illinois Municipal Brownfields Redevelopment Grant Program (MBRGP) offers grants worth a maximum of $240,000 each to municipalities to assist in site investigation activities, development of cleanup objectives, and performance of cleanup activities. Brownfields are abandoned or underused industrial and/or commercial properties that are contaminated (or thought to be contaminated) and have an active potential for redevelopment.

Date of Government Version: 02/11/2010
Date Data Arrived at EDR: 07/31/2014
Date Made Active in Reports: 09/08/2014
Number of Days to Update: 39

Source: Illinois Environmental Protection Agency
Telephone: 217-785-3486
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

BROWNFIELDS: Redevelopment Assessment Database

The Office of Site Evaluations Redevelopment Assessment database identifies the status of all properties within the State in which the Illinois EPA's Office of Site Evaluation has conducted a municipal Brownfield Redevelopment Assessment.

Date of Government Version: 01/26/2015
Date Data Arrived at EDR: 01/28/2015
Date Made Active in Reports: 02/24/2015
Number of Days to Update: 27

Source: Illinois Environmental Protection Agency
Telephone: 217-524-1658
Last EDR Contact: 01/28/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/22/2014
Date Data Arrived at EDR: 12/22/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 38

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/24/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 02/02/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/25/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 15
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/03/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Quarterly

CDL: Meth Drug Lab Site Listing
A listing of clandestine/meth drug lab locations.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 01/27/2015
Date Made Active in Reports: 02/24/2015
Number of Days to Update: 28
Source: Department of Public Health
Telephone: 217-782-5750
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/25/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 15

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/03/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/30/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/29/2014
Date Data Arrived at EDR: 12/30/2014
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 69

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Annually

SPILLS: State spills

A listing of incidents reported to the Office of Emergency Response.

Date of Government Version: 02/24/2015
Date Data Arrived at EDR: 02/25/2015
Date Made Active in Reports: 03/11/2015
Number of Days to Update: 14

Source: Illinois EPA
Telephone: 217-782-3637
Last EDR Contact: 01/09/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Varies

IEMA SPILLS: Illinois Emergency Management Agency Spills

A listing of hazardous materials incidents reported to the Illinois Emergency Management Agency.

Date of Government Version: 02/01/2015
Date Data Arrived at EDR: 02/03/2015
Date Made Active in Reports: 02/26/2015
Number of Days to Update: 23

Source: Illinois Emergency Management Agency
Telephone: 217-524-0770
Last EDR Contact: 02/03/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 07/18/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 71

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/03/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/15/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 06/06/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 8

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/13/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 24

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/30/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/10/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/27/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 12/30/2014
Date Data Arrived at EDR: 12/31/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 29

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/06/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/31/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 44

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 01/29/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/27/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 01/09/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 33

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/16/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 12/29/2014
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 21

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 03/09/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 02/27/2015
Date Data Arrived at EDR: 02/27/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 02/27/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 01/18/2015
Date Data Arrived at EDR: 02/27/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 26

Source: EPA
Telephone: (312) 353-2000
Last EDR Contact: 03/09/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52
Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/24/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Biennially

UIC: Underground Injection Wells

Injection wells are used for disposal of fluids by "injection" into the subsurface. The construction of injection wells range from very technical designs with twenty-four hour monitoring to simply a hole dug in the ground to control runoff. As a result of this diversity, the UIC Program divides injection wells into five different classes.

Date of Government Version: 02/24/2015
Date Data Arrived at EDR: 02/25/2015
Date Made Active in Reports: 03/11/2015
Number of Days to Update: 14
Source: Illinois EPA
Telephone: 217-782-9878
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

NPDES: A Listing of Active Permits

A listing of facilities currently active in the state. The types of permits are public, private, federal and state.

Date of Government Version: 04/16/2014
Date Data Arrived at EDR: 04/18/2014
Date Made Active in Reports: 05/20/2014
Number of Days to Update: 32
Source: Illinois EPA
Telephone: 217-782-0610
Last EDR Contact: 04/02/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Varies

HWAR: Hazard Waste Annual Report

Each year, Illinois hazardous-waste generators tell the Illinois EPA the amounts and kinds of hazardous waste they produced during the previous year. Generators indicate by code the types of wastes produced and the steps they took to manage these wastes. If some or all of these wastes were sent to commercial treatment, storage, and disposal facilities (TSDFs), that information and the identity of each receiving facility also are submitted. Illinois TSDFs likewise report the types and quantities of wastes received from in-state and out-of-state generators; they also report the procedures they used to manage these wastes.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 03/11/2015
Number of Days to Update: 15
Source: Illinois EPA
Telephone: 217-524-3300
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Annually

DRYCLEANERS: Illinois Licensed Drycleaners

Any retail drycleaning facility in Illinois must apply for a license through the Illinois Drycleaner Environmental Response Trust Fund. Drycleaner Environmental Response Trust Fund of Illinois.

Date of Government Version: 02/22/2015
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 03/11/2015
Number of Days to Update: 15

Source: Drycleaner Environmental Response Trust Fund of Illinois
Telephone: 800-765-4041
Last EDR Contact: 02/24/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

IMPDMENT: Surface Impoundment Inventory

Statewide inventory of industrial, municipal, mining, oil & gas , and large agricultural impoundment. This study was conducted by the Illinois EPA to assess potentail for contamination of shallow aquifers. This was a one-time study. Although many of the impoundments may no longer be present, the sites may be contaminated.

Date of Government Version: 12/31/1980
Date Data Arrived at EDR: 03/08/2002
Date Made Active in Reports: 06/03/2002
Number of Days to Update: 87

Source: Illinois Waste Management & Research Center
Telephone: 217-333-8940
Last EDR Contact: 02/20/2002
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

AIRS: Air Inventory Listing

A listing of air permits and emissions information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 04/18/2014
Date Made Active in Reports: 05/13/2014
Number of Days to Update: 25

Source: Illinois EPA
Telephone: 217-557-0314
Last EDR Contact: 04/02/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Varies

TIER 2: Tier 2 Information Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 08/19/2014
Date Made Active in Reports: 09/11/2014
Number of Days to Update: 23

Source: Illinois Emergency Management Agency
Telephone: 217-785-9860
Last EDR Contact: 02/20/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Annually

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/15/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/18/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Varies

BOL: Bureau of Land Inventory Database

Bureau of Land inventory for facility information. Data results are cross-linked with all on-line database system applications from IEPA - Bureau of Land as well as USEPA FRS database.

Date of Government Version: 01/14/2015
Date Data Arrived at EDR: 01/16/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 13

Source: Illinois Environmental Protection Agency
Telephone: 217-785-9407
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Varies

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 02/13/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Quarterly

COAL ASH: Coal Ash Site Listing

A listing of coal ash site lcoations.

Date of Government Version: 10/01/2011
Date Data Arrived at EDR: 03/09/2012
Date Made Active in Reports: 04/10/2012
Number of Days to Update: 32

Source: Illinois EPA
Telephone: 217-782-1654
Last EDR Contact: 12/05/2014
Next Scheduled EDR Contact: 03/16/2015
Data Release Frequency: Annually

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/13/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 01/05/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Varies

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88
Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Quarterly

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/30/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 01/15/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/13/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339
Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/15/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: N/A

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/16/2014
Date Data Arrived at EDR: 10/31/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 17

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/30/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/16/2014
Date Data Arrived at EDR: 10/31/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 17

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/30/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Annually

CHICAGO ENV: Environmental Records Dataset

This dataset serves as a lookup table to determine if environmental records exist in a Chicago Department of Public Health (CDPH) environmental dataset for a given address. COMPLAINTS: A 'Y? indicates that one or more records exist in the CDPH Environmental Complaints dataset. NESHAPS & DEMOLITON NOTICES: A 'Y? indicates that one or more records exist in the CDPH Asbestos and Demolition Notification dataset. ENFORCEMENT: A 'Y? indicates that one or more records exist in the CDPH Environmental Enforcement dataset. INSPECTIONS: A 'Y? indicates that one or more records exist in the CDPH Environmental Inspections dataset. PERMITS: A 'Y? indicates that one or more records exist in the CDPH Environmental Permits dataset. TANKS: A 'Y? indicates that one or more records exist in the CDPH Storage Tanks dataset.

Date of Government Version: 03/11/2015
Date Data Arrived at EDR: 03/25/2015
Date Made Active in Reports: 03/31/2015
Number of Days to Update: 6

Source: Chicago Department of Public Health
Telephone: 312-745-3136
Last EDR Contact: 03/25/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/09/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Quarterly

Financial Assurance: Financial Assurance Information Listing

Information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 01/22/2015
Date Data Arrived at EDR: 01/27/2015
Date Made Active in Reports: 02/24/2015
Number of Days to Update: 28

Source: Illinois Environmental Protection Agency
Telephone: 217-782-9887
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

PIMW: Potentially Infectious Medical Waste

Potentially Infectious Medical Waste (PIMW) is waste generated in connection with the diagnosis, treatment (i.e., provision of medical services), or immunization of human beings or animals; research pertaining to the provision of medical services; or the provision or testing of biologicals.

Date of Government Version: 03/23/2015
Date Data Arrived at EDR: 03/25/2015
Date Made Active in Reports: 03/31/2015
Number of Days to Update: 6

Source: Illinois EPA
Telephone: 217-524-3289
Last EDR Contact: 03/23/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Illinois Environmental Protection Agency in Illinois.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: Illinois Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Natural Resources in Illinois.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Illinois Environmental Protection Agency in Illinois.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/10/2014
Number of Days to Update: 193

Source: Illinois Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/17/2014
Next Scheduled EDR Contact: 03/02/2015
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/12/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2015
Date Data Arrived at EDR: 02/04/2015
Date Made Active in Reports: 02/27/2015
Number of Days to Update: 23

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/04/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/21/2014
Date Made Active in Reports: 08/25/2014
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/19/2015
Next Scheduled EDR Contact: 05/04/2015
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/15/2014
Date Made Active in Reports: 08/13/2014
Number of Days to Update: 29

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/19/2015
Date Made Active in Reports: 04/07/2015
Number of Days to Update: 19

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/13/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Homes & Centers Listing
Source: Department of Children & Family Services
Telephone: 312-814-4150

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

STRAUGHN FARM
2950 CENTERPOINT WAY
CHANNAHON, IL 60410

TARGET PROPERTY COORDINATES

Latitude (North):	41.4392 - 41° 26' 21.12''
Longitude (West):	88.1403 - 88° 8' 25.08''
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	404735.1
UTM Y (Meters):	4587929.0
Elevation:	606 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	41088-D2 CHANNAHON, IL
Most Recent Revision:	1993
East Map:	41088-D1 ELWOOD, IL
Most Recent Revision:	1993

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

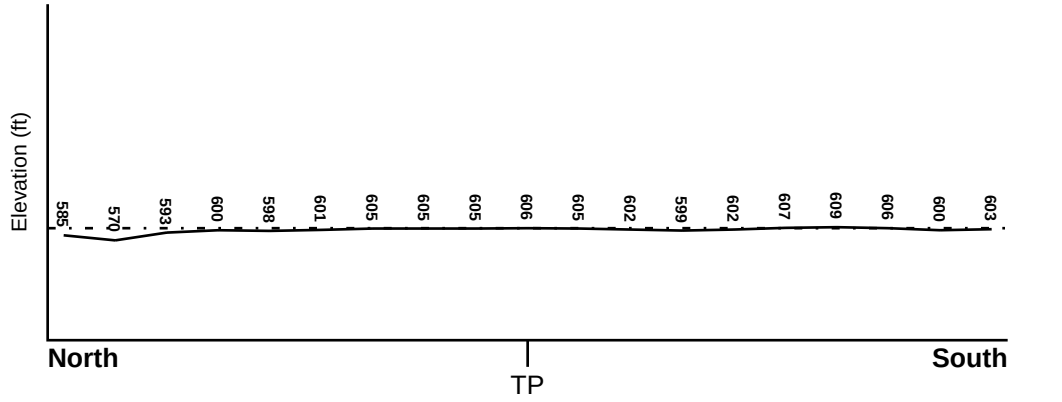
TOPOGRAPHIC INFORMATION

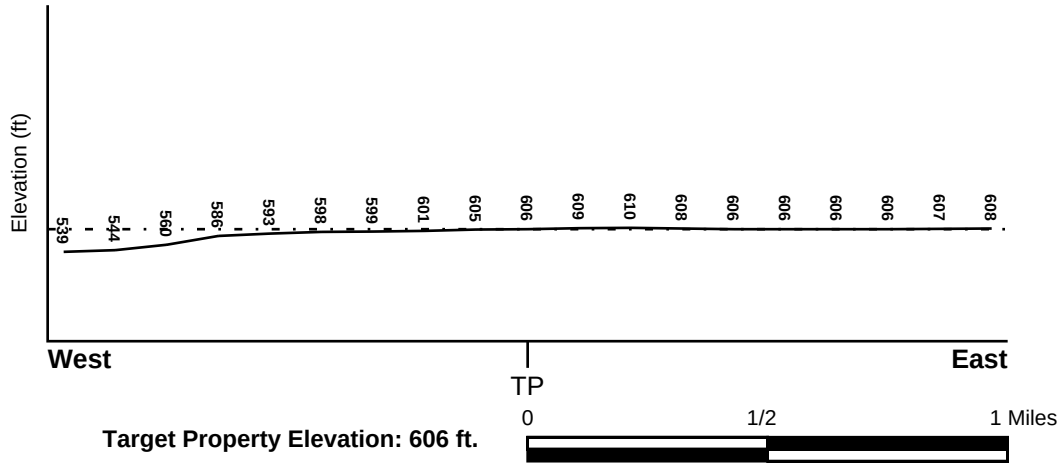
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 606 ft.

0 1/2 1 Miles

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
WILL, IL	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	17197C0260E - FEMA Q3 Flood data
Additional Panels in search area:	17197C0280E - FEMA Q3 Flood data 17197C0270E - FEMA Q3 Flood data 17197C0286E - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CHANNAHON	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site--specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

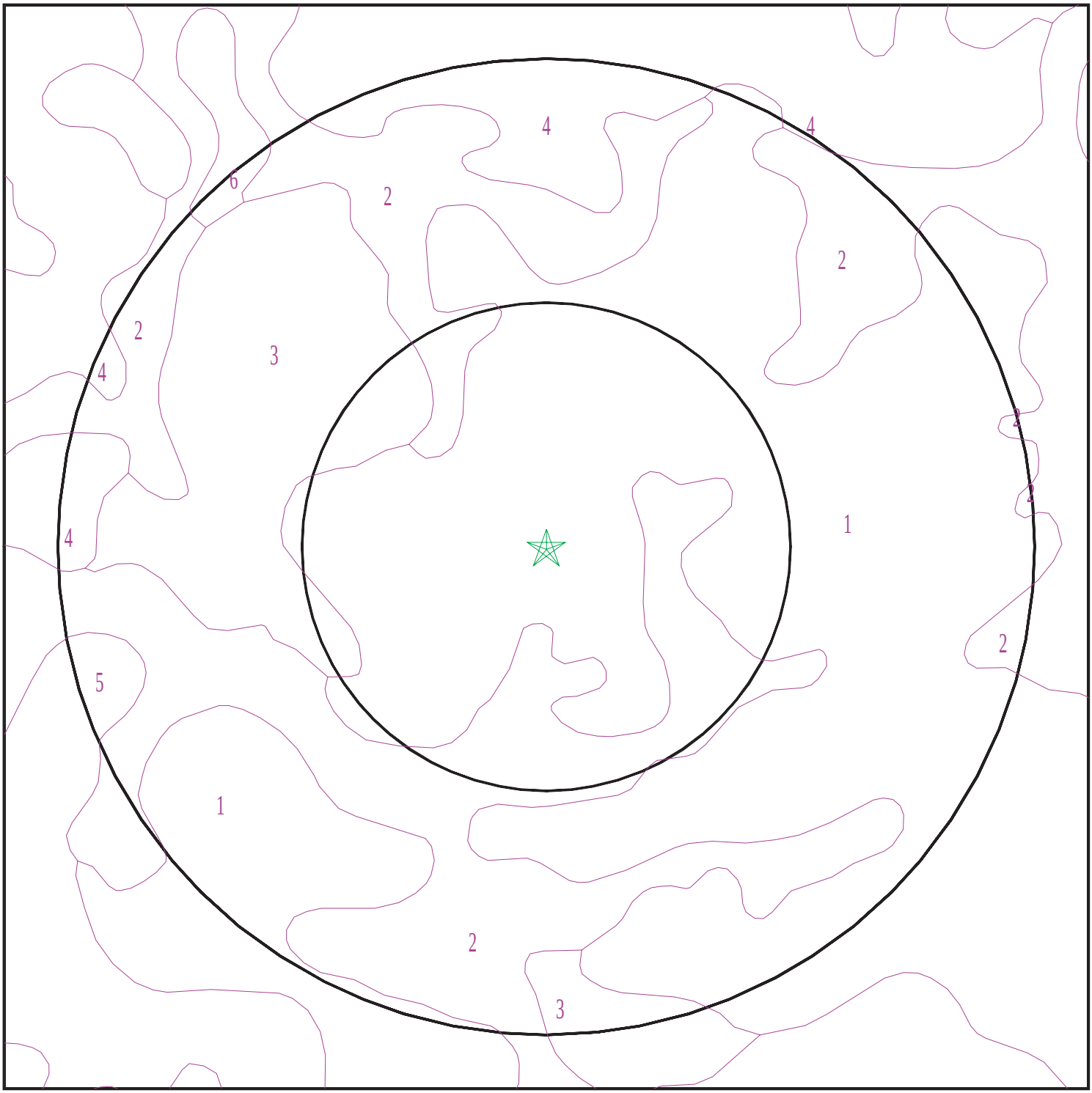
Era:	Paleozoic
System:	Silurian
Series:	Middle Silurian (Niagoaran)
Code:	S2 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4260023.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Straughn Farm	CLIENT:	Pioneer Environmental
ADDRESS:	2950 Centerpoint Way Channahon IL 60410	CONTACT:	Natalie Struble
LAT/LONG:	41.4392 / 88.1403	INQUIRY #:	4260023.2s
		DATE:	April 09, 2015 10:43 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Elliott

Soil Surface Texture: silty clay

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 41 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	11 inches	16 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 0.42	Max: 7.3 Min: 6.1
2	5 inches	11 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.3 Min: 5.6
3	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.3 Min: 5.6
4	16 inches	40 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 0.42	Max: 7.8 Min: 6.6

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
5	40 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.41 Min: 0.42	Max: 8.4 Min: 7.4

Soil Map ID: 2

Soil Component Name: Ashkum

Soil Surface Texture: silty clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 15 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	53 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 1.41	Max: 8.4 Min: 7.4
2	0 inches	11 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 1.41	Max: 7.3 Min: 5.6

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	11 inches	29 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 4.23 Min: 1.41	Max: 7.3 Min: 6.1
4	29 inches	53 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 1.41	Max: 7.8 Min: 6.6

Soil Map ID: 3

Soil Component Name: Elliott

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 41 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.3 Min: 5.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	9 inches	12 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.3 Min: 5.6
3	12 inches	16 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 0.42	Max: 7.3 Min: 6.1
4	16 inches	35 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 0.42	Max: 7.8 Min: 6.6
5	35 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.41 Min: 0.42	Max: 8.4 Min: 7.4

Soil Map ID: 4

Soil Component Name: Beecher

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 20 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.3 Min: 5.1
2	7 inches	24 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 0.42	Max: 7.3 Min: 4.5
3	24 inches	35 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 0.42	Max: 7.8 Min: 6.1
4	35 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.41 Min: 0.42	Max: 8.4 Min: 7.4

Soil Map ID: 5

Soil Component Name: Beecher

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 33 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 7.3 Min: 5.1
2	9 inches	20 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 0.42	Max: 7.3 Min: 4.5
3	20 inches	37 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 0.42	Max: 7.8 Min: 6.1
4	37 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.41 Min: 0.42	Max: 8.4 Min: 7.4

Soil Map ID: 6

Soil Component Name: Peotone

Soil Surface Texture: silty clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 15 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	12 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 4.23 Min: 1.41	Max: 7.8 Min: 5.6
2	12 inches	50 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 4.23 Min: 1.41	Max: 7.8 Min: 6.1
3	50 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4.23 Min: 1.41	Max: 8.4 Min: 6.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

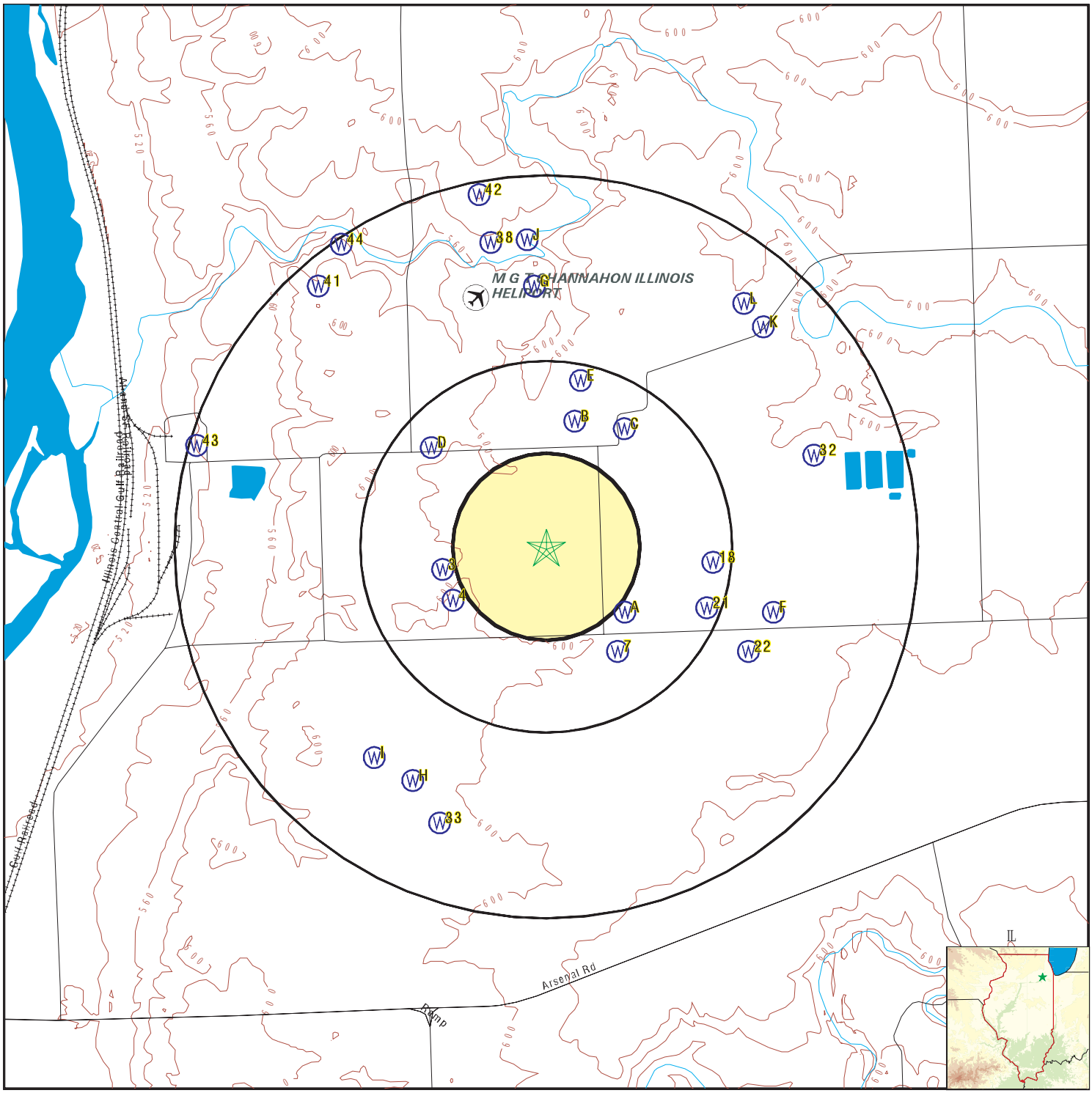
MAP ID	WELL ID	LOCATION FROM TP
A1	ILSG20000165196	1/4 - 1/2 Mile SE
A2	ILSG20000165214	1/4 - 1/2 Mile SE
3	ILSG20000165450	1/4 - 1/2 Mile WSW
4	P45539	1/4 - 1/2 Mile WSW
B5	ILSG20000166204	1/4 - 1/2 Mile NNE
B6	P45537	1/4 - 1/2 Mile NNE
7	P45802	1/4 - 1/2 Mile SE
C8	P45804	1/4 - 1/2 Mile NNE
C9	P45803	1/4 - 1/2 Mile NNE
C10	ILSG20000166140	1/4 - 1/2 Mile NE
B11	ILEP20000004003	1/4 - 1/2 Mile North
C12	ILSG20000166210	1/4 - 1/2 Mile NNE
C13	ILSG20000166211	1/4 - 1/2 Mile NNE
D14	P45535	1/4 - 1/2 Mile NW
D15	P45536	1/4 - 1/2 Mile NW
D16	P45534	1/4 - 1/2 Mile NW
C17	ILSG20000166223	1/4 - 1/2 Mile NE
18	ILSG20000165504	1/4 - 1/2 Mile East
E19	P45538	1/4 - 1/2 Mile NNE
E20	ILSG20000166393	1/4 - 1/2 Mile North
21	P45801	1/4 - 1/2 Mile ESE
22	P45799	1/2 - 1 Mile ESE
F23	ILSG20000165227	1/2 - 1 Mile ESE
F24	ILSG20000165228	1/2 - 1 Mile ESE
F25	ILSG20000165157	1/2 - 1 Mile ESE
G26	P45027	1/2 - 1 Mile North
G27	P45026	1/2 - 1 Mile North
H28	ILSG20000164480	1/2 - 1 Mile SSW
I29	P45542	1/2 - 1 Mile SW
I30	P45543	1/2 - 1 Mile SW
H31	ILSG20000164458	1/2 - 1 Mile SSW
32	P45797	1/2 - 1 Mile ENE
33	P45540	1/2 - 1 Mile SSW
J34	ILSG20000167115	1/2 - 1 Mile North
J35	ILSG20000167116	1/2 - 1 Mile North
K36	ILSG20000166649	1/2 - 1 Mile NE
K37	ILSG20000166650	1/2 - 1 Mile NE
38	P45028	1/2 - 1 Mile North
L39	ILSG20000166792	1/2 - 1 Mile NE
L40	P45800	1/2 - 1 Mile NE
41	P45032	1/2 - 1 Mile NW
42	ILSG20000167370	1/2 - 1 Mile North
43	ILEP20000004000	1/2 - 1 Mile WNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
44	ILSG20000167082	1/2 - 1 Mile NW

PHYSICAL SETTING SOURCE MAP - 4260023.2s



0 1/4 1/2 1 Miles

- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data

SITE NAME:	Straughn Farm	CLIENT:	Pioneer Environmental
ADDRESS:	2950 Centerpoint Way Channahon IL 60410	CONTACT:	Natalie Struble
		INQUIRY #:	4260023.2s
LAT/LONG:	41.4392 / 88.1403	DATE:	April 09, 2015 10:42 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
SE **IL WELLS** **ILSG20000165196**
1/4 - 1/2 Mile
Higher

Pt api number:	121973954300	Pt status:	WATER
Pt longitude:	-88.136461		
Pt latitude:	41.436601		
Api number:	121973954300		
Longitude :	-88.136461		
Latitude :	41.436601		
Section:	7	Twp:	34
Tdir:	N	Rng:	10
Rdir:	E	Farm name:	Scott Glasscock
Farm num:	Not Reported	Company name:	Wehling, Richard H.
Status:	Water Well	Elevation:	0
Elevref:	Not Reported	Total depth:	190
Wformation:	Not Reported	Wfmfrom:	0
Wfmto:	0	Pumpgpm:	0

A2
SE **IL WELLS** **ILSG20000165214**
1/4 - 1/2 Mile
Higher

Pt api number:	121972684900	Pt status:	WATER
Pt longitude:	-88.135983		
Pt latitude:	41.436698		
Api number:	121972684900		
Longitude :	-88.135983		
Latitude :	41.436698		
Section:	7	Twp:	34
Tdir:	N	Rng:	10
Rdir:	E	Farm name:	Glasscock S
Farm num:	Not Reported	Company name:	Will-Dupage Drill Co.
Status:	Water Well	Elevation:	0
Elevref:	Not Reported	Total depth:	130
Wformation:	Not Reported	Wfmfrom:	0
Wfmto:	0	Pumpgpm:	0

3
WSW **IL WELLS** **ILSG20000165450**
1/4 - 1/2 Mile
Lower

Pt api number:	121970140000	Pt status:	WATER
Pt longitude:	-88.145665		
Pt latitude:	41.438315		
Api number:	121970140000		
Longitude :	-88.145665		
Latitude :	41.438315		
Section:	12	Twp:	34
Tdir:	N	Rng:	9
Rdir:	E	Farm name:	Illinois University
Farm num:	1	Company name:	Lockport Well & Pump, Inc.

Status:	Water Well	Elevation:	0
Elevref:	Ground level	Total depth:	225
Wformation:	Not Reported	Wfmfrom:	0
Wfmto:	0	Pumpgpm:	0

4
WSW **IL WELLS** **P45539**
1/4 - 1/2 Mile
Lower

Well ID:	150702	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	UNIVERSITY OF ILL(AGR FARM)		
Permit:	|003509	Date Drilled:	09/21/1967
Depth (in feet):	225	Aquifer Type:	~~
County Code:	197	County:	WILL
Township:	34N	Range:	09E
Section:	12	Plot Location:	4B
Well Use:	Domestic	Well Type:	~~
Record Type:	Geology,Chemical Analysis,Any other type of record		
Driller:	LOCKPORT		

B5
NNE **IL WELLS** **ILSG20000166204**
1/4 - 1/2 Mile
Higher

Pt api number:	121972682800	Pt status:	WATER
Pt longitude:	-88.138635		
Pt latitude:	41.443936		
Api number:	121972682800		
Longitude :	-88.138635		
Latitude :	41.443936		
Section:	12	Twp:	34
Tdir:	N	Rng:	9
Rdir:	E	Farm name:	New Lenox Lmbr
Farm num:	1	Company name:	DuPage Well Drlrs.
Status:	Water Well	Elevation:	0
Elevref:	Not Reported	Total depth:	125
Wformation:	Not Reported	Wfmfrom:	0
Wfmto:	0	Pumpgpm:	0

B6
NNE **IL WELLS** **P45537**
1/4 - 1/2 Mile
Higher

Well ID:	150703	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	TORDAI R		
Permit:	|082501	Date Drilled:	12/05/1978
Depth (in feet):	125	Aquifer Type:	~~
County Code:	197	County:	WILL
Township:	34N	Range:	09E
Section:	12	Plot Location:	1E
Well Use:	Domestic	Well Type:	~~
Record Type:	Construction Report,Geology		
Driller:	LOCKPORT		

7
SE **IL WELLS** **P45802**
1/4 - 1/2 Mile
Lower

Well ID:	150875	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	GLASSCOCK S		
Permit:	|077680	Date Drilled:	08/02/1978
Depth (in feet):	130	Aquifer Type:	~~
County Code:	197	County:	WILL
Township:	34N	Range:	10E
Section:	07	Plot Location:	8A
Well Use:	Domestic	Well Type:	~~
Record Type:	Construction Report,Geology		
Driller:	WILL DUPAGE CO		

C8
NNE **IL WELLS** **P45804**
1/4 - 1/2 Mile
Higher

Well ID:	150877	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	CREST REAL ESTATE		
Permit:	|070264	Date Drilled:	02/10/1978
Depth (in feet):	130	Aquifer Type:	~~
County Code:	197	County:	WILL
Township:	34N	Range:	10E
Section:	07	Plot Location:	8E
Well Use:	Domestic	Well Type:	~~
Record Type:	Construction Report,Geology		
Driller:	WILL DUPAGE CO		

C9
NNE **IL WELLS** **P45803**
1/4 - 1/2 Mile
Higher

Well ID:	150876	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	CHELLING D		
Permit:	|014955	Date Drilled:	10/00/1971
Depth (in feet):	105	Aquifer Type:	~~
County Code:	197	County:	WILL
Township:	34N	Range:	10E
Section:	07	Plot Location:	8E
Well Use:	Domestic	Well Type:	~~
Record Type:	Construction Report,Geology		
Driller:	DELANEY		

C10
NE
1/4 - 1/2 Mile
Higher

IL WELLS **ILSG20000166140**

Pt api number:	121974282700	Pt status:	WATER
Pt longitude:	-88.136263		
Pt latitude:	41.443494		
Api number:	121974282700		
Longitude :	-88.136263		
Latitude :	41.443494		
Section:	7	Twp:	34
Tdir:	N	Rng:	10
Rdir:	E	Farm name:	Joliet, City of
Farm num:	29D	Company name:	Layne-Western Co.
Status:	Water Well	Elevation:	0
Elevref:	Not Reported	Total depth:	1548
Wformation:	Not Reported	Wfmfrom:	0
Wfmto:	0	Pumpgpm:	1102

B11
North
1/4 - 1/2 Mile
Lower

IL WELLS **ILEP20000004003**

Well id:	01881		
X coord:	-88.13948		
Y coord:	41.44444		
Fac name:	Not Reported	Facility n:	Not Reported
Addr one t:	Not Reported		
Addr two t:	Not Reported		
City name:	Not Reported	State code:	Not Reported
Zip code:	Not Reported	Fips cd:	Not Reported
Prn cnty:	Not Reported	Status cd:	Not Reported
Fed type c:	Not Reported	B name:	Not Reported
Pop cnt:	0		
Lat dec de:	0		
Long dec d:	0		
Meridian:	Not Reported	Township:	Not Reported
Range:	Not Reported	Section:	Not Reported
Updt ts:	30-DEC-99	W cws num:	1970450
W cws name:	JOLIET	W status:	A
W suscept:	C1	W policy:	C
W min setb:	200		
W d depth:	1600		
W aquifer:	8787		

Amb well:	0		
Pws status:	A	Sdwis well:	WL01881
Sys number:	IL1970450	Api:	Not Reported

C12
NNE **IL WELLS** **ILSG20000166210**
1/4 - 1/2 Mile
Higher

Pt api number:	121972633200	Pt status:	WATER
Pt longitude:	-88.136219		
Pt latitude:	41.443986		
Api number:	121972633200		
Longitude :	-88.136219		
Latitude :	41.443986		
Section:	7	Twp:	34
Tdir:	N	Rng:	10
Rdir:	E	Farm name:	Crest Real Est
Farm num:	Not Reported	Company name:	DuPage Well Drlrs.
Status:	Water Well	Elevation:	0
Elevref:	Not Reported	Total depth:	130
Wformation:	Not Reported	Wfmfrom:	0
Wfmto:	0	Pumpgpm:	0

C13
NNE **IL WELLS** **ILSG20000166211**
1/4 - 1/2 Mile
Higher

Pt api number:	121974037300	Pt status:	WATER
Pt longitude:	-88.136219		
Pt latitude:	41.443986		
Api number:	121974037300		
Longitude :	-88.136219		
Latitude :	41.443986		
Section:	7	Twp:	34
Tdir:	N	Rng:	10
Rdir:	E	Farm name:	Gernokowski, Bob
Farm num:	Not Reported	Company name:	Dick’s Well & Pump
Status:	Water Well	Elevation:	0
Elevref:	Not Reported	Total depth:	80
Wformation:	limestone	Wfmfrom:	40
Wfmto:	80	Pumpgpm:	0

D14
NW **IL WELLS** **P45535**
1/4 - 1/2 Mile
Lower

Well ID:	150305	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	KANKAKEE ORDANCE WORKS		
Permit:	|	Date Drilled:	00/00/1940
Depth (in feet):	128	Aquifer Type:	~~
County Code:	197	County:	WILL
Township:	34N	Range:	09E
Section:	12	Plot Location:	Not Reported
Well Use:	Commercial	Well Type:	~~
Record Type:	Any other type of record		
Driller:	Not Reported		

D15
NW
1/4 - 1/2 Mile
Lower

IL WELLS **P45536**

Well ID:	150306	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	LEUPOLD E (WELL #2)		
Permit:	|	Date Drilled:	00/00/1940
Depth (in feet):	115	Aquifer Type:	~~
County Code:	197	County:	WILL
Township:	34N	Range:	09E
Section:	12	Plot Location:	Not Reported
Well Use:	Domestic	Well Type:	~~
Record Type:	Any other type of record		
Driller:	DRECHER		

D16
NW
1/4 - 1/2 Mile
Lower

IL WELLS **P45534**

Well ID:	150304	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	KANKAKEE ORDANCE WORKS		
Permit:	|	Date Drilled:	02/11/1942
Depth (in feet):	126	Aquifer Type:	~~
County Code:	197	County:	WILL
Township:	34N	Range:	09E
Section:	12	Plot Location:	Not Reported
Well Use:	Commercial	Well Type:	~~
Record Type:	Any other type of record		
Driller:	KRAMER		

C17
NE
1/4 - 1/2 Mile
Higher

IL WELLS **ILSG20000166223**

Pt api number:	121970226100	Pt status:	WATER
Pt longitude:	-88.135608		
Pt latitude:	41.444122		
Api number:	121970226100		
Longitude :	-88.135608		
Latitude :	41.444122		
Section:	7	Twp:	34
Tdir:	N	Rng:	10
Rdir:	E	Farm name:	Chellino Dominic
Farm num:	Not Reported	Company name:	Delaney Leonard I
Status:	Water Well	Elevation:	0
Elevref:	Not Reported	Total depth:	105
Wformation:	Not Reported	Wfmfrom:	0
Wfmto:	0	Pumpgpm:	0

18
East **IL WELLS** **ILSG20000165504**
1/4 - 1/2 Mile
Higher

Pt api number:	121972407800	Pt status:	WATER
Pt longitude:	-88.131662		
Pt latitude:	41.438593		
Api number:	121972407800		
Longitude :	-88.131662		
Latitude :	41.438593		
Section:	7	Twp:	34
Tdir:	N	Rng:	10
Rdir:	E	Farm name:	Peoples Gas Light
Farm num:	1	Company name:	Wehling Well Works, Inc.
Status:	Water Well	Elevation:	615
Elevref:	Topographic Map	Total depth:	1597
Wformation:	Not Reported	Wfmfrom:	0
Wfmto:	0	Pumpgpm:	0

E19
NNE **IL WELLS** **P45538**
1/4 - 1/2 Mile
Higher

Well ID:	150701	Second ID:	29489
Info Source:	IL Private Water Wells Survey		
Owner:	TORDAI D		
Permit:	|130560	Date Drilled:	04/11/1987
Depth (in feet):	125	Aquifer Type:	~~
County Code:	197	County:	WILL
Township:	34N	Range:	09E
Section:	12	Plot Location:	1F
Well Use:	Domestic	Well Type:	~~
Record Type:	Construction Report,Geology		
Driller:	LOCKPORT		

E20
North **IL WELLS** **ILSG20000166393**
1/4 - 1/2 Mile
Higher

Pt api number:	121972948900	Pt status:	WATER
Pt longitude:	-88.138694		
Pt latitude:	41.445759		
Api number:	121972948900		
Longitude :	-88.138694		
Latitude :	41.445759		
Section:	12	Twp:	34
Tdir:	N	Rng:	9
Rdir:	E	Farm name:	Tordai, Dan
Farm num:	1	Company name:	Fykes, Charles N.
Status:	Water Well	Elevation:	0
Elevref:	Not Reported	Total depth:	125
Wformation:	limestone	Wfmfrom:	58
Wfmto:	125	Pumpgpm:	12

21
ESE **IL WELLS** **P45801**
1/4 - 1/2 Mile
Higher

Well ID:	150874	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	PEOPLES GAS LIGHT AND COKE CO		
Permit:	|025791	Date Drilled:	11/13/1973
Depth (in feet):	1597	Aquifer Type:	~~
County Code:	197	County:	WILL
Township:	34N	Range:	10E
Section:	07	Plot Location:	6B
Well Use:	IN	Well Type:	~~
Record Type:	Construction Report,Geology,Chemical Analysis		
Driller:	WEHLING		

22
ESE **IL WELLS** **P45799**
1/2 - 1 Mile
Higher

Well ID:	150872	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	PEOPLES GAS LIGHT AND COKE CO		
Permit:	|	Date Drilled:	12/00/1972
Depth (in feet):	1581	Aquifer Type:	~~
County Code:	197	County:	WILL
Township:	34N	Range:	10E
Section:	07	Plot Location:	5A
Well Use:	IN	Well Type:	~~
Record Type:	Chemical Analysis,Inventory		
Driller:	LAYNE WESTERN		

F23
ESE **IL WELLS** **ILSG20000165227**
1/2 - 1 Mile
Higher

Pt api number:	121974094700	Pt status:	WATER
Pt longitude:	-88.128717		
Pt latitude:	41.436872		
Api number:	121974094700		
Longitude :	-88.128717		
Latitude :	41.436872		
Section:	7	Twp:	34
Tdir:	N	Rng:	10
Rdir:	E	Farm name:	People’s Energy
Farm num:	1	Company name:	Tri County Well & Pump
Status:	Water Well	Elevation:	0
Elevref:	Not Reported	Total depth:	220
Wformation:	limestone	Wfmfrom:	41
Wfmto:	220	Pumpgpm:	12

F24
ESE **IL WELLS** **ILSG20000165228**
1/2 - 1 Mile
Higher

Pt api number:	121974094800	Pt status:	WATER
Pt longitude:	-88.128717		
Pt latitude:	41.436872		
Api number:	121974094800		
Longitude :	-88.128717		
Latitude :	41.436872		
Section:	7	Twp:	34
Tdir:	N	Rng:	10
Rdir:	E	Farm name:	People’s Energy
Farm num:	2	Company name:	Tri County Well & Pump
Status:	Water Well	Elevation:	0
Elevref:	Not Reported	Total depth:	160
Wformation:	limestone	Wfmfrom:	41
Wfmto:	160	Pumpgpm:	12

F25
ESE **IL WELLS** **ILSG20000165157**
1/2 - 1 Mile
Higher

Pt api number:	121970337100	Pt status:	WATER
Pt longitude:	-88.128155		
Pt latitude:	41.436185		
Api number:	121970337100		
Longitude :	-88.128155		
Latitude :	41.436185		
Section:	7	Twp:	34
Tdir:	N	Rng:	10
Rdir:	E	Farm name:	Peoples Gas
Farm num:	1	Company name:	Layne Western
Status:	Water Well	Elevation:	618
Elevref:	Topographic Map	Total depth:	1580
Wformation:	Not Reported	Wfmfrom:	0
Wfmto:	0	Pumpgpm:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G26
North
1/2 - 1 Mile
Lower

IL WELLS **P45027**

Well ID:	261496	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	DONNA OGDEN		
Permit:	197-94-0093-J	Date Drilled:	06/18/1994
Depth (in feet):	165	Aquifer Type:	Bedrock
County Code:	197	County:	WILL
Township:	34N	Range:	09E
Section:	01	Plot Location:	2A
Well Use:	Domestic	Well Type:	Drilled
Record Type:	Construction Report,Geology		
Driller:	LOCKPORT WELL & PUMP		

G27
North
1/2 - 1 Mile
Lower

IL WELLS **P45026**

Well ID:	251241	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	TIM EDWARDS		
Permit:	197-93-0161-J	Date Drilled:	09/10/1993
Depth (in feet):	145	Aquifer Type:	Bedrock
County Code:	197	County:	WILL
Township:	34N	Range:	09E
Section:	01	Plot Location:	2A
Well Use:	Domestic	Well Type:	Drilled
Record Type:	Construction Report,Geology		
Driller:	LOCKPORT WELL & PUMP		

H28
SSW
1/2 - 1 Mile
Lower

IL WELLS **ILSG20000164480**

Pt api number:	121970376300	Pt status:	WATER
Pt longitude:	-88.147203		
Pt latitude:	41.430217		
Api number:	121970376300		
Longitude :	-88.147203		
Latitude :	41.430217		
Section:	13	Twp:	34
Tdir:	N	Rng:	9
Rdir:	E	Farm name:	Barney Constr
Farm num:	Not Reported	Company name:	Mallow
Status:	Water Well	Elevation:	0
Elevref:	Not Reported	Total depth:	145
Wformation:	Not Reported	Wfmfrom:	0
Wfmto:	0	Pumpgpm:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I29
SW
1/2 - 1 Mile
Lower

IL WELLS **P45542**

Well ID:	150704	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	BARNEY CONS CO		
Permit:	|022604	Date Drilled:	05/10/1973
Depth (in feet):	245	Aquifer Type:	~~
County Code:	197	County:	WILL
Township:	34N	Range:	09E
Section:	13	Plot Location:	5F
Well Use:	Domestic	Well Type:	~~
Record Type:	Construction Report,Geology		
Driller:	DELANEY		

I30
SW
1/2 - 1 Mile
Lower

IL WELLS **P45543**

Well ID:	150705	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	BARNEY CONST CO		
Permit:	|022866	Date Drilled:	07/10/1973
Depth (in feet):	145	Aquifer Type:	~~
County Code:	197	County:	WILL
Township:	34N	Range:	09E
Section:	13	Plot Location:	5F
Well Use:	Domestic	Well Type:	~~
Record Type:	Construction Report,Geology		
Driller:	WILL DUPAGE CO		

H31
SSW
1/2 - 1 Mile
Lower

IL WELLS **ILSG20000164458**

Pt api number:	121970347500	Pt status:	WATER
Pt longitude:	-88.147227		
Pt latitude:	41.429942		
Api number:	121970347500		
Longitude :	-88.147227		
Latitude :	41.429942		
Section:	13	Twp:	34
Tdir:	N	Rng:	9
Rdir:	E	Farm name:	Barney Constr
Farm num:	0002	Company name:	Delaney Leonard I
Status:	Water Well	Elevation:	0
Elevref:	Not Reported	Total depth:	245
Wformation:	Not Reported	Wfmfrom:	0
Wfmto:	0	Pumpgpm:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

32
ENE
1/2 - 1 Mile
Lower

IL WELLS **P45797**

Well ID:	150812	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	KANKAKEE ORDANCE WORKS		
Permit:	|	Date Drilled:	02/02/1942
Depth (in feet):	118	Aquifer Type:	~~
County Code:	197	County:	WILL
Township:	34N	Range:	10E
Section:	07	Plot Location:	Not Reported
Well Use:	Commercial	Well Type:	~~
Record Type:	Geology,Any other type of record		
Driller:	KRAMER		

33
SSW
1/2 - 1 Mile
Lower

IL WELLS **P45540**

Well ID:	150307	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	KANKAKEE ORDANCE WORKS		
Permit:	|	Date Drilled:	00/00/1940
Depth (in feet):	64	Aquifer Type:	~~
County Code:	197	County:	WILL
Township:	34N	Range:	09E
Section:	13	Plot Location:	Not Reported
Well Use:	Commercial	Well Type:	~~
Record Type:	Any other type of record		
Driller:	Not Reported		

J34
North
1/2 - 1 Mile
Lower

IL WELLS **ILSG20000167115**

Pt api number:	121973578900	Pt status:	WATER
Pt longitude:	-88.141287		
Pt latitude:	41.451174		
Api number:	121973578900		
Longitude :	-88.141287		
Latitude :	41.451174		
Section:	1	Twp:	34
Tdir:	N	Rng:	9
Rdir:	E	Farm name:	Edwards, Tim
Farm num:	Not Reported	Company name:	Fykes, Charles N.
Status:	Water Well	Elevation:	0
Elevref:	Not Reported	Total depth:	145
Wformation:	limestone	Wfmfrom:	45
Wfmto:	145	Pumpgpm:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

J35
North
1/2 - 1 Mile
Lower | **IL WELLS** | **ILSG20000167116**

Pt api number:	121973619100	Pt status:	WATER
Pt longitude:	-88.141287		
Pt latitude:	41.451174		
Api number:	121973619100		
Longitude :	-88.141287		
Latitude :	41.451174		
Section:	1	Twp:	34
Tdir:	N	Rng:	9
Rdir:	E	Farm name:	Ogden, Donna
Farm num:	Not Reported	Company name:	Fykes, Charles N.
Status:	Water Well	Elevation:	0
Elevref:	Not Reported	Total depth:	165
Wformation:	limestone	Wfmfrom:	40
Wfmto:	165	Pumpgpm:	0

K36
NE
1/2 - 1 Mile
Lower | **IL WELLS** | **ILSG20000166649**

Pt api number:	121973880300	Pt status:	WATER
Pt longitude:	-88.129048		
Pt latitude:	41.447779		
Api number:	121973880300		
Longitude :	-88.129048		
Latitude :	41.447779		
Section:	7	Twp:	34
Tdir:	N	Rng:	10
Rdir:	E	Farm name:	Findley, Brenda
Farm num:	Not Reported	Company name:	Matherly, Hubert
Status:	Water Well	Elevation:	0
Elevref:	Not Reported	Total depth:	165
Wformation:	limestone	Wfmfrom:	56
Wfmto:	165	Pumpgpm:	25

K37
NE
1/2 - 1 Mile
Lower | **IL WELLS** | **ILSG20000166650**

Pt api number:	121974187300	Pt status:	WATER
Pt longitude:	-88.129048		
Pt latitude:	41.447779		
Api number:	121974187300		
Longitude :	-88.129048		
Latitude :	41.447779		
Section:	7	Twp:	34
Tdir:	N	Rng:	10
Rdir:	E	Farm name:	Ruettiger, Tonelli & Assoc
Farm num:	6	Company name:	Will County Well & Pump

Status:	Water Well	Elevation:	0
Elevref:	Not Reported	Total depth:	180
Wformation:	limestone	Wfmfrom:	72
Wfmto:	180	Pumpgpm:	150

38
North
1/2 - 1 Mile
Lower

IL WELLS **P45028**

Well ID:	254107	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	LAWRENCE & SUE WANTUCH		
Permit:	197-94-0065-J	Date Drilled:	05/10/1994
Depth (in feet):	260	Aquifer Type:	Bedrock
County Code:	197	County:	WILL
Township:	34N	Range:	09E
Section:	01	Plot Location:	3B
Well Use:	Domestic	Well Type:	Drilled
Record Type:	Construction Report,Geology		
Driller:	SHARPE		

L39
NE
1/2 - 1 Mile
Lower

IL WELLS **ILSG20000166792**

Pt api number:	121970198200	Pt status:	WATER
Pt longitude:	-88.130291		
Pt latitude:	41.448662		
Api number:	121970198200		
Longitude :	-88.130291		
Latitude :	41.448662		
Section:	7	Twp:	34
Tdir:	N	Rng:	10
Rdir:	E	Farm name:	Montello John
Farm num:	Not Reported	Company name:	K & K Well Drilling
Status:	Water Well	Elevation:	0
Elevref:	Not Reported	Total depth:	100
Wformation:	Not Reported	Wfmfrom:	0
Wfmto:	0	Pumpgpm:	0

L40
NE
1/2 - 1 Mile
Lower

IL WELLS **P45800**

Well ID:	150873	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	MONTELLO J		
Permit:	|011923	Date Drilled:	04/02/1971
Depth (in feet):	100	Aquifer Type:	~~
County Code:	197	County:	WILL
Township:	34N	Range:	10E
Section:	07	Plot Location:	5H
Well Use:	Domestic	Well Type:	~~
Record Type:	Construction Report,Geology		
Driller:	KNIERIM		

41
NW
1/2 - 1 Mile
Lower

IL WELLS **P45032**

Well ID:	150359	Second ID:	Not Reported
Info Source:	IL Private Water Wells Survey		
Owner:	CASKEY D		
Permit:	|078992	Date Drilled:	12/12/1978
Depth (in feet):	145	Aquifer Type:	~~
County Code:	197	County:	WILL
Township:	34N	Range:	09E
Section:	01	Plot Location:	6A
Well Use:	Domestic	Well Type:	~~
Record Type:	Construction Report,Geology		
Driller:	LOCKPORT		

42
North
1/2 - 1 Mile
Lower

IL WELLS **ILSG20000167370**

Pt api number:	121973597800	Pt status:	WATER
Pt longitude:	-88.143774		
Pt latitude:	41.452936		
Api number:	121973597800		
Longitude :	-88.143774		
Latitude :	41.452936		
Section:	1	Twp:	34
Tdir:	N	Rng:	9
Rdir:	E	Farm name:	Wantuch, Lawrence & Sue
Farm num:	Not Reported	Company name:	Sharpe, Franklin N.
Status:	Water Well	Elevation:	0
Elevref:	Not Reported	Total depth:	260
Wformation:	limestone	Wfmfrom:	49
Wfmto:	260	Pumpgpm:	15

43
WNW
1/2 - 1 Mile
Lower

IL WELLS **ILEP20000004000**

Well id:	19705045		
X coord:	3366126		
Y coord:	3064415.5		
Fac name:	STEPAN CHEMICAL COMPANY	Facility n:	IL3081588
Addr one t:	22500 MILLSDALE ROAD		
Addr two t:	Not Reported		
City name:	ELWOOD	State code:	IL
Zip code:	60421	Fips cd:	197
Prn cnty:	Will	Status cd:	A
Fed type c:	NTNC	B name:	INDUSTRIAL/AGRICULTURAL
Pop cnt:	400		
Lat dec de:	41.44306		
Long dec d:	-88.15833		
Meridian:	3	Township:	34N
Range:	9E	Section:	11
Updt ts:	13-OCT-06	W cws num:	Not Reported
W cws name:	Not Reported	W status:	Not Reported
W suscept:	Not Reported	W policy:	Not Reported
W min setb:	0		
W d depth:	0		
W aquifer:	Not Reported		
Amb well:	0		
Pws status:	Not Reported	Sdwis well:	Not Reported
Sys number:	Not Reported	Api:	Not Reported

44
NW
1/2 - 1 Mile
Lower

IL WELLS **ILSG20000167082**

Pt api number:	121972798600	Pt status:	WATER
Pt longitude:	-88.150919		
Pt latitude:	41.451001		
Api number:	121972798600		
Longitude :	-88.150919		
Latitude :	41.451001		
Section:	1	Twp:	34
Tdir:	N	Rng:	9
Rdir:	E	Farm name:	Caskey Dan
Farm num:	1	Company name:	Fykes Charles & Pump
Status:	Water Well	Elevation:	0
Elevref:	Not Reported	Total depth:	145
Wformation:	Not Reported	Wfmfrom:	0
Wfmto:	0	Pumpgpm:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for WILL County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for WILL COUNTY, IL

Number of sites tested: 14

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.567 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	3.514 pCi/L	57%	43%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

RADON

State Database: IL Radon
Source: Department of Nuclear Safety
Telephone: 217-785-9958
County Radon Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Straughn Farm
2950 Centerpoint Way
Channahon, IL 60410

Inquiry Number: 4260023.3
April 09, 2015

Certified Sanborn® Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

4/09/15

Site Name:
Straughn Farm
2950 Centerpoint Way
Channahon, IL 60410

Client Name:
Pioneer Environmental
700 North Sacramento Blvd
Chicago, IL 60612

EDR Inquiry # 4260023.3

Contact: Natalie Struble

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Pioneer Environmental were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Site Name: Straughn Farm
Address: 2950 Centerpoint Way
City, State, Zip: Channahon, IL 60410
Cross Street:
P.O. # 12-0646-103
Project: Halsted Parkways
Certification # 9CF5-42E4-BA96

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results
Certification # 9CF5-42E4-BA96

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Straughn Farm
2950 Centerpoint Way
Channahon, IL 60410

Inquiry Number: 4260023.5
April 10, 2015

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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Date EDR Searched Historical Sources:

Aerial Photography April 10, 2015

Target Property:

2950 Centerpoint Way

Channahon, IL 60410

Year	***Scale***	***Details***	***Source***
1939	Aerial Photograph. Scale: 1"=500'	Flight Date: September 06, 1939	USGS
1946	Aerial Photograph. Scale: 1"=500'	Flight Date: July 22, 1946	USGS
1952	Aerial Photograph. Scale: 1"=500'	Flight Date: April 07, 1952	USGS
1973	Aerial Photograph. Scale: 1"=500'	Flight Date: March 27, 1973	USGS
1978	Aerial Photograph. Scale: 1"=500'	Flight Date: October 30, 1978	USGS
1983	Aerial Photograph. Scale: 1"=500'	Flight Date: April 20, 1983	USGS
1988	Aerial Photograph. Scale: 1"=500'	Flight Date: April 17, 1988	USGS
1993	Aerial Photograph. Scale: 1"=500'	Flight Date: April 04, 1993	USGS
1999	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: March 24, 1999	USGS/DOQQ
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2006	Aerial Photograph. Scale: 1"=500'	Flight Year: 2006	USDA/NAIP
2007	Aerial Photograph. Scale: 1"=500'	Flight Year: 2007	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2011	Aerial Photograph. Scale: 1"=500'	Flight Year: 2011	USDA/NAIP


INQUIRY #: 4260023.5
YEAR: 1939
= 500'
N
EDR


INQUIRY #: 4260023.5
YEAR: 1946
= 500'
N
EDR


INQUIRY #: 4260023.5
YEAR: 1952
= 500'
N
EDR


INQUIRY #: 4260023.5
YEAR: 1973
= 500'
N
EDR


INQUIRY #: 4260023.5
YEAR: 1978
= 500'
N
EDR


INQUIRY #: 4260023.5
YEAR: 1983
= 500'
N
EDR


INQUIRY #: 4260023.5
YEAR: 1988
= 500'
N
EDR



INQUIRY #: 4260023.5

YEAR: 1993

N

= 500'


INQUIRY #: 4260023.5
YEAR: 1999
= 500'
N
EDR


INQUIRY #: 4260023.5
YEAR: 2005
= 500'
N
EDR


INQUIRY #: 4260023.5
YEAR: 2006
= 500'
N
EDR


INQUIRY #: 4260023.5
YEAR: 2007
= 500'
N
EDR


INQUIRY #: 4260023.5
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 4260023.5
YEAR: 2010
= 500'
N
EDR


INQUIRY #: 4260023.5
YEAR: 2011
= 500'
N
EDR

Appendix D Local Groundwater Ordinance and Notification Letters

The following is said ordinance as passed:

Be It Ordained by the City Council of the City of Chicago:

SECTION 1. Chapter 11-8 of the Municipal Code of Chicago is hereby amended by adding a new Section 11-8-385 and by amending Section 11-8-390 by inserting the language in italics, as follows:

11-8-385 Potable Water Defined.

Potable water is any water used for human consumption, including, but not limited to water used for drinking, bathing, washing dishes, preparing foods and watering gardens in which produce intended for human consumption is grown.

11-8-390 Prohibited Use Of Secondary Water; *Prohibited Installation Of New Potable Water Supply Wells.*

No secondary water shall overflow into or be discharged into any surge tank, storage tank, or reservoir, or shall in any way be piped or conveyed into the water supply system of any building, structure, or premises to become a part of or be mixed with the fresh water supply from the mains of the Chicago Waterworks System either inside of the premises or in the water service pipe. Secondary water shall not be piped to or used in any plumbing fixture, or for cooling crushers, rollers, or mixers where foods, candies, liquids or materials are manufactured for human or animal consumption. No connection, tap, or opening shall be made in a water distribution system other than an approved water distribution system which will permit such water being used for drinking.

Wherever the fire-protective equipment in any building, structure or premises has service from the Chicago Waterworks System, no pipe or other conduit which conveys secondary water shall be cross-connected to the fire-protective equipment. All fire-protective equipment connected to the Chicago Waterworks System shall be constructed in such manner that

ORIGINAL

all tanks, pipes, pumps, surge tanks, and fire hydrants can be thoroughly drained, flushed and cleaned by the owners of such equipment and premises and there shall be no direct connections from the tanks, pipes and other equipment to any drainage pipes or sewers. *No groundwater well, cistern or other groundwater collection device installed after the effective date of this amendatory ordinance may be used to supply any potable water supply system, except at points of withdrawal by the City of Chicago or by units of local government pursuant to intergovernmental agreement with the City of Chicago.*

SECTION 2. Section 2-30-030 of the Municipal Code of Chicago is hereby amended by deleting the language in brackets and inserting the language in italics, as follows:

2-30-030 Commissioner -- Powers And Duties Designated.

The commissioner of the environment shall have the following powers and duties:

* * * * *

(21) To enter into grant agreements, cooperation agreements and other agreements or contracts with governmental entities, private business and civic and community groups necessary to implement the Green Streets Program and other urban forestry, beautification and environmental enhancement programs; *and agreements to implement the State of Illinois Site Remediation Program;*

SECTION 3. This ordinance shall be in full force and effect from and after its passage and approval.

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116 Form C.C. 19 3M 7-14-64 (17265)

STATE OF ILLINOIS, }
County of Cook. } ss.

I, JAMES J. LASKI, City Clerk of the City of Chicago in the County of Cook and State of Illinois, DO HEREBY CERTIFY that the annexed and foregoing is a true and correct copy of that certain ordinance now on file in my office amending Title 11, Chapter 8 and Title 2, Chapter 30 of Municipal Code of Chicago by establishing the definition and regulation of the potable water supply system and Empowerment of Commissioner of Environment for Implementation of State of Illinois Site Remediation Program.

I DO FURTHER CERTIFY that the said ordinance was passed by the City Council of the said City of Chicago on the fourteenth (14th) day of May, A.D. 1997 and deposited in my office on the fourteenth (14th) day of May, A.D. 19 97.

I DO FURTHER CERTIFY that the vote on the question of the passage of the said ordinance by the said City Council was taken by yeas and nays and recorded in the Journal of the Proceedings of the said City Council, and that the result of said vote so taken was as follows, to wit: Yeas 47, Nays none.

I DO FURTHER CERTIFY that the said ordinance was delivered to the Mayor of the said City of Chicago after the passage thereof by the said City Council, without delay, by the City Clerk of the said City of Chicago, and that the said Mayor did approve and sign the said ordinance on the fourteenth (14th) day of May, A.D. 19 97

I DO FURTHER CERTIFY that the original, of which the foregoing is a true copy, is entrusted to my care for safe keeping, and that I am the lawful keeper of the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the corporate seal of the City of Chicago aforesaid, at the said City, in the [L. S.] County and State aforesaid, this third (3rd) day of February, A.D. 19 98

ORIGINAL

JAMES J. LASKI, City Clerk.

ORIGINAL

City of Chicago
Richard M. Daley, Mayor

Department of Environment

Henry L. Henderson
Commissioner

Twenty-fifth Floor
30 North LaSalle Street
Chicago, Illinois 60602-2575
(312) 744-7606 (Voice)
(312) 744-6451 (FAX)
(312) 744-3586 (TTY)
http://www.ci.chi.il.us

July 1, 1997

Mr. Gary P. King
Manager, Division of Remediation Management
Bureau of Land
Illinois Environmental Protection Agency
1001 N. Grand Avenue, East
Springfield, IL 62702

Re: Chicago Ordinance No. 097990

Dear Mr. King:

Pursuant to 35 Ill. Adm. Code 742.1015(I)(2), Section 11-8-385 and 11-8-390 of the Municipal Code of Chicago, as amended by Ordinance No. 097990, apply to all areas within the corporate limits of the City of Chicago.

Sincerely,

Henry L. Henderson
Commissioner

cc: Mort Ames
Asst. Corp. Counsel

Chicago Blue Bag Recycling
Please Recycle!

EXHIBIT
B

Chicago Works
SCREENED
MM

MEMORANDUM OF UNDERSTANDING BETWEEN THE CITY OF CHICAGO, ILLINOIS AND THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY REGARDING (A) THE USE OF A LOCAL POTABLE WATER SUPPLY WELL ORDINANCE AS AN ENVIRONMENTAL INSTITUTIONAL CONTROL AND (B) THE PROVISION OF INFORMATION RELATING TO "NO FURTHER REMEDIATION" DETERMINATIONS BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY TO THE CITY OF CHICAGO

I. PURPOSE AND INTENT

A. This Memorandum of Understanding ("MOU") is entered into between the City of Chicago, Illinois ("the City") and the Illinois Environmental Protection Agency ("Illinois EPA") for the purpose of (a) satisfying the requirements of 35 Ill. Adm. Code 742.1015 for the use of potable water supply well ordinances as environmental institutional controls and (b) ensuring that the City will be provided with copies of all "No Further Remediation" letters or determinations issued by the Illinois EPA pursuant to specific programs for sites located within the boundaries of Chicago, Illinois, in order to enable the City to maintain a complete and up-to-date registry of sites as required by 35 Ill. Adm. Code 742.1015(i)(5). The Illinois EPA has reviewed Sections 11-8-385 and 11-8-390 of the Municipal Code of Chicago as amended by Ordinance Number 097990 ("Potable Water Supply Well Ordinance"), attached as Attachment A, and has determined that the Municipal Code of Chicago prohibits the installation and use of new potable water supply wells by private entities but will allow the installation of potable water supply wells by the City and other units of local government pursuant to intergovernmental agreements with the City. In such cases, 35 Ill. Adm. Code 742.1015(a) provides that the City may enter into an MOU with the Illinois EPA to allow the use of the ordinance as an institutional control.

B. The intent of this Memorandum of Understanding is to (a) specify the responsibilities that must be assumed by the City to satisfy the requirements for MOUs as set forth at 35 Ill. Adm. Code 742.1015(i), and (b) require the Illinois EPA to provide the City with copies of all "No Further Remediation" letters or determinations that the Illinois EPA issues for sites located within the City of Chicago to enable the City to maintain a registry of sites pursuant to 35 Ill. Adm. Code 742.1015(i)(5).

II. DECLARATIONS AND ASSUMPTION OF RESPONSIBILITY

A. In order to ensure the long-term integrity of the Potable Water Supply Well Ordinance as an environmental institutional control and that risk to human health and the environment from contamination left in place in reliance on the Potable Water Supply Well Ordinance is effectively managed, the City hereby assumes the following responsibilities pursuant to 35 Ill. Adm. Code 742.1015(i):

1. The City will notify the Illinois EPA Bureau of Land of any changes to or requests for variance from the Potable Water Supply Well Ordinance at least 30 days prior to the date the local government is scheduled to take action on the proposed change or request (35 Ill. Adm. Code 742.1015(i)(4));

2. The City will maintain a registry of all sites within its corporate limits that have received "No Further Remediation" determinations from the Illinois EPA pursuant to specific programs (35 Ill. Adm. Code 742.1015(i)(5));

3. If the City determines to install a new potable water supply well(s), the City will review the registry of sites established under paragraph II.A.2. prior to siting such potable water supply well(s) within the area covered by the Potable Water Supply Well Ordinance, pursuant to 35 Ill. Adm. Code 742.1015(i)(6)(A);

4. If the City determines to install a new potable water supply well(s), the City will determine whether the potential source of potable water has been or may be affected by contamination left in place at the sites tracked and reviewed under paragraphs II.A.2. and 3. (35 Ill. Adm. Code 742.1015(i)(6)(B)); and

5. If the City determines to install a new potable water supply well(s), the City will take action as necessary to ensure that the potential source of potable water is protected from contamination or treated before it is used as a potable water supply (35 Ill. Adm. Code 742.1015(i)(6)(C));

6. If the City enters into intergovernmental agreements under Section 11-8-390 of the Municipal Code of Chicago to allow other units of local government to install new potable water supply well(s) within the corporate limits of the City, the City will require compliance with the procedures set forth in paragraphs II.A.3., 4., and 5. as a part of such agreements.

7. Notification under paragraph II.A.1. above, or other communications concerning this MOU directed to the Illinois EPA, shall be addressed to:

Manager, Division of Remediation Management
Bureau of Land
Illinois Environmental Protection Agency
P.O. Box 19276
Springfield, IL 62794-9276

B. In order to ensure the long-term integrity of the Potable Water Supply Well Ordinance as an environmental institutional control and that risk to human health and the environment from contamination left in place in reliance on the Potable Water Supply Well Ordinance or other specific programs can be effectively managed, the Illinois EPA hereby assumes

the following responsibilities:

1. The Illinois EPA will provide the City with copies of all "No Further Remediation" letters or determinations that it issues pursuant to 35 Ill. Adm. Code 742, and other specific programs, for sites located within the boundaries of the City at the time said letters or determinations are provided to remediation applicants.

2. Copies of "No Further Remediation" letters or determinations provided to the City pursuant to paragraph II.B.1. above, or other communications concerning this MOU directed to the City, shall be addressed to:

Commissioner
Chicago Department of Environment
25th Floor
30 North LaSalle Street
Chicago, IL 60602-2575

III. SUPPORTING DOCUMENTATION

The following documentation is required by 35 Ill. Adm. Code 742.1015(i) and is attached to this MOU:

A. Attachment A: A copy of the Potable Water Supply Well Ordinance certified by the city clerk or other official as the current, controlling law (35 Ill. Adm. Code 742.1015(i)(3)) and a statement of the authority of the City to enter into the MOU (35 Ill. Adm. Code 742.1015(i)(I)).;

B. Attachment B: Identification of the legal boundaries within which the Potable Water Supply Well Ordinance is applicable (35 Ill. Adm. Code 742.1015(i)(2)); and

IN WITNESS WHEREOF, the lawful representatives of the parties have caused this MOU to be signed as follows:

FOR: The City of Chicago, Illinois

BY: _____ DATE: July 1, 1997

Commissioner
Department of Environment
City of Chicago

FOR: Illinois Environmental Protection Agency

BY: Gary P. King DATE: July 3, 1997

(Name and title of signatory)
Mgr, Division of Remediation Management
Bureau of Land

Version 6/27/97

DRAFT NOTIFICATION LETTER TEMPLATE

July 21, 2015

BY CERTIFIED MAIL - RETURN RECEIPT REQUESTED

City of Chicago Department of Fleet and Facility Management
30 N. LaSalle Street, Suite 300
Chicago, IL 60602-2575

To Whom It May Concern:

THIS LETTER IS FOR INFORMATIONAL PURPOSES AND REQUIRES NO ACTION ON YOUR PART.

Environmental response actions have been performed at the property located at the northwest corner of West 63rd Street and South Halsted Street in Chicago, Illinois. The response actions were performed voluntarily to address the physical and documented evidence of several (approximately 7-10) former and/or current underground storage tanks (USTs) located on various parcels of the site, the historical uses of certain parcels for auto repair operations and a gasoline filling station; and the presence of subgrade demolition debris and petroleum odors observed during the excavation of certain test pits related to previous geotechnical work. Response actions included enrolling the site into the Site Remediation Program, which is administered by the Illinois Environmental Protection Agency (Illinois EPA), conducting subsurface assessments, and submitting data and reports to the Illinois EPA for review and evaluation. These actions were performed to justify that site conditions warrant formal closure pursuant to Title 35 of the Illinois Administrative Code Part 740.

Under Illinois regulations, a local ordinance that effectively prohibits the installation and use of potable water supply wells may be used as an institutional control to allow contamination above the groundwater ingestion remediation objectives to remain in the groundwater (35 Illinois Administrative Code 742.1015). (An institutional control is a legal mechanism for imposing a restriction on land use. Groundwater is water beneath the ground stored in the pores of soil and rock; some communities and homeowners pump this water out of wells to supply potable water. Potable means fit for human consumption including drinking, bathing, preparing food, washing dishes, and so forth.)

The City of Chicago has an ordinance that prohibits the human and domestic consumption of the groundwater beneath your property. The Illinois EPA has determined that the ordinance adopted by the City of Chicago meets the regulatory requirements for use as an institutional control. The City of Chicago Department of Fleet and Facility Management has requested and has been granted approval from the Illinois EPA to use the groundwater ordinance as an institutional control.

Your property located at northwest corner of West 63rd Street and South Halsted Street in Chicago, Illinois is included in the area affected by the ordinance. This means that you cannot install or use a private, potable water well on this property. Based on the remediation objectives established in reliance on this ordinance, groundwater beneath your property may not be suitable for human or domestic consumption. Illinois regulations require that you be notified of these facts.

The ordinance is identified as Ordinance No. 097990, and may be found at Sections 11-8-385, 11-8-390 and 20-30-030 of the Municipal Code of Chicago. If you wish to obtain a copy of the ordinance, please contact the City of Chicago, Department of Fleet and Facility Management, 30 N. LaSalle Street, Suite 300, Chicago, IL 60602. To learn more about this project, please contact either City of Chicago, Department of Fleet and Facility Management, 30 N. LaSalle Street, Suite 300, Chicago, IL 60602 or the Illinois EPA, Bureau of Land project manager, Mr. Rhett Rossi, 1021 North Grand Avenue East, P.O. Box 19276, Springfield, IL 62794-9276 (217/782-9283). You may also obtain a copy of the complete Illinois EPA file on this site. To do so, you will need to submit a written request with your signature to the Freedom of Information Act (FOIA) Officer, Illinois EPA, Bureau of Land, 1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276. When requesting a copy of the file, please reference the file heading shown below:

LPC # 0316685080 / Cook County
Chicago / City of Chicago, Department of Fleet and Facility Management
6250 S. Halsted Street

FOIA requests may also be requested through the Illinois EPA's Web page www.epa.state.il.us/foia.

Sincerely, City of Chicago Department of Fleet and Facility Management

DRAFT NOTIFICATION LETTER TEMPLATE

July 21, 2015

BY CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Englewood Square, L.P.
1050 East 95th Street
Chicago, IL 60619

To Whom It May Concern:

THIS LETTER IS FOR INFORMATIONAL PURPOSES AND REQUIRES NO ACTION ON YOUR PART.

Environmental response actions have been performed at the property located at the northwest corner of West 63rd Street and South Halsted Street in Chicago, Illinois. The response actions were performed voluntarily to address the physical and documented evidence of several (approximately 7-10) former and/or current underground storage tanks (USTs) located on various parcels of the site, the historical uses of certain parcels for auto repair operations and a gasoline filling station; and the presence of subgrade demolition debris and petroleum odors observed during the excavation of certain test pits related to previous geotechnical work. Response actions included enrolling the site into the Site Remediation Program, which is administered by the Illinois Environmental Protection Agency (Illinois EPA), conducting subsurface assessments, and submitting data and reports to the Illinois EPA for review and evaluation. These actions were performed to justify that site conditions warrant formal closure pursuant to Title 35 of the Illinois Administrative Code Part 740.

Under Illinois regulations, a local ordinance that effectively prohibits the installation and use of potable water supply wells may be used as an institutional control to allow contamination above the groundwater ingestion remediation objectives to remain in the groundwater (35 Illinois Administrative Code 742.1015). (An institutional control is a legal mechanism for imposing a restriction on land use. Groundwater is water beneath the ground stored in the pores of soil and rock; some communities and homeowners pump this water out of wells to supply potable water. Potable means fit for human consumption including drinking, bathing, preparing food, washing dishes, and so forth.)

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LPC # 0316685080 / Cook County
Chicago / City of Chicago, Department of Fleet and Facility Management
6250 S. Halsted Street

FOIA requests may also be requested through the Illinois EPA's Web page www.epa.state.il.us/foia.

Sincerely, City of Chicago Department of Fleet and Facility Management

DRAFT NOTIFICATION LETTER TEMPLATE

July 21, 2015

BY CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Chicago Department of Public Health
333 S. State Street, #200
Chicago, Illinois 60604

RE: Use of City Ordinance (097990)
NWX West 63rd Street and South Halsted Street, Chicago, IL

THIS LETTER IS FOR INFORMATIONAL PURPOSES AND REQUIRES NO ACTION ON YOUR PART.

Environmental response actions have been performed at the property located at the northwest corner of West 63rd Street and South Halsted Street in Chicago, Illinois. The response actions were performed voluntarily to address the physical and documented evidence of several (approximately 7-10) former and/or current underground storage tanks (USTs) located on various parcels of the site, the historical uses of certain parcels for auto repair operations and a gasoline filling station; and the presence of subgrade demolition debris and petroleum odors observed during the excavation of certain test pits related to previous geotechnical work. Response actions included enrolling the site into the Site Remediation Program, which is administered by the Illinois Environmental Protection Agency (Illinois EPA), conducting subsurface assessments, and submitting data and reports to the Illinois EPA for review and evaluation. These actions were performed to justify that site conditions warrant formal closure pursuant to Title 35 of the Illinois Administrative Code Part 740.

Under Illinois regulations, a local ordinance that effectively prohibits the installation and use of potable water supply wells may be used as an institutional control to allow contamination above the groundwater ingestion remediation objectives to remain in the groundwater (35 Illinois Administrative Code 742.1015). (An institutional control is a legal mechanism for imposing a restriction on land use. Groundwater is water beneath the ground stored in the pores of soil and rock; some communities and homeowners pump this water out of wells to supply potable water. Potable means fit for human consumption including drinking, bathing, preparing food, washing dishes, and so forth.)

The City of Chicago has an ordinance and Memorandum of Understanding with the Illinois EPA that strictly prohibit the human and domestic consumption of the groundwater beneath city property. The ordinance is identified as Ordinance No. 097990, and may be found at Sections 11-8-385, 11-8-390 and 20-30-030 of the Municipal Code of Chicago. The Illinois EPA has determined that the ordinance adopted by the City of Chicago meets the regulatory requirements for use as an institutional control. The City of Chicago Department of Fleet and Facility Management has requested and has been granted approval from the Illinois EPA to use the groundwater ordinance as an institutional control.

Portions of the public right-of-ways for South Peoria Drive and South Green Street, portions of Lot 1, Lot 3, Lot 5, Lot 6, of the Halsted Parkways Remediation Site, and portions of certain parcels east adjacent to South Green Street are included in the area affected by the ordinance. This means that the City of Chicago cannot install or use a private, potable water well on these properties. Based on the remediation objectives established in reliance on this ordinance, groundwater beneath the right-of-ways may not be suitable for human or domestic consumption. Illinois regulations require that the City of Chicago be notified of these facts.

Furthermore, in accordance with the requirements of 35 IAC 742.1015(e), parties seeking approval of a local ordinance as an institutional control shall provide the local municipality with the following:

- a copy of the ordinance restricting groundwater use (742.1015(b)(1));

  Attached.

- a scaled map delineating the areal extent of groundwater contamination (measured or modeled) above the applicable remediation objectives (742.1015(b)(2));

  See the attached Figure 4 from a document titled RACR, and dated July 21, 2015, which was approved by the Illinois EPA on ----------.

- scaled map delineating the boundaries of all properties under which groundwater is located which exceeds the applicable groundwater remediation objectives (742.1015(b)(3));

  See the attached Figure 4.

- information identifying the current owner(s) of each property identified in subsection (b)(3) of this Section (742.1015(b)(4)); and

  Fate and transport modeling calculations indicate that residual impacts may migrate beyond the boundaries of the Remediation Site. Potentially impacted properties include portions of the public right-of-ways for South Peoria Drive and South Green Street, portions of Lot 1, Lot 3, Lot 5, Lot 6, of the Halsted Parkways Remediation Site, and portions of certain parcels east adjacent to South Green Street. The owners of the potentially affected off-site properties are the City of Chicago, Department of Fleet and Facility Management and Englewood Square, L.P.

- a copy of the proposed submission of the information to the current owners identified in subsection (b)(4) (742.1015(b)(5)).

  A copy of the notification letter is attached.

To learn more about this project, please contact either City of Chicago, Department of Fleet and Facility Management, 30 N. LaSalle Street, Suite 300, Chicago, IL 60602 or the Illinois EPA, Bureau of Land project manager, (Mr. Rhett Rossi, 1021 North Grand Avenue East, P.O. Box 19276, Springfield, IL 62794-9276 (217/782-9283)). You may also obtain a copy of the complete Illinois EPA file on this site. To do so, you will need to submit a written request with your signature to the Freedom of Information Act (FOIA) Officer, Illinois EPA, Bureau of Land, 1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276. When requesting a copy of the file, please reference the file heading shown below:

LPC # 0316685080 / Cook County
Chicago / City of Chicago, Department of Fleet and Facility Management
6250 S. Halsted St

FOIA requests may also be requested through the Illinois Environmental Protection Agency's Web page www.epa.state.il.us/foia.

Sincerely,

City of Chicago, Department of Fleet and Facility Management

Attachments:

Copy of City Ordinance
Figure 4 - Predicted Extent of Potential Migration
Copy of notification letters to owners of potentially-impacted properties

cc: Illinois EPA, Bureau of Land/Remedial Project Management Section

Appendix E Modeling Spreadsheet

Spreadsheet 1 - Equation R-26
RBCA Equations to Determine Extent of Potential Contaminant Migration in Groundwater
Halsted Parkways, Chicago, IL

	Aluminum	Iron
Field Measured or Site-Specific Parameters		
Conc. at the Source -- $C_{(source)}$ - mg/L:	SPLP Result 14.100 ppm	SPLP Result 12.400 ppm
Dist. along centerline of gw plume in direction of gw flow (X) - cm:	**208.00 feet** **6,340 cm**	**125.00 feet** **3,810 cm**
Source width perpendicular to gw flow direction in horiz. plane (Sw) - cm:	712 feet 21,702 cm	712 feet 21,702 cm
Hydraulic Conductivity (K) - cm/day:	3.33E-05 cm/s 2.88E+00 cm/day	3.33E-05 cm/s 2.88E+00 cm/day
Hydraulic Gradient (i) - cm/cm:	0.007	0.007
Chemical-Specific Parameters		
First Order Degradation Constant (λ) - day-1: Chemical Specific (35 IAC 742, App. C, Table E)	0.00E+00	0.00E+00
Default Parameters		
Source width perpendicular to gw flow direction in vertical plane (Sd) - cm:	200	200
η (Total Soil Porosity) - Lpore/Lsoil 0.43, or Gravel = 0.25, Sand = 0.32, Silt = 0.40, Clay = 0.36, or Calculated	0.43	0.43
RBCA Calculations		
Longitudinal Dispersivity (α_x) - cm **R-16** $\alpha_x=0.10*X$:	633.98	381.00
Transverse Dispersivity (α_y) - cm **R-17** $\alpha_y=\alpha_x/3$:	211.33	127.00
Vertical Dispersivity (α_z) - cm **R-18** $\alpha_z=\alpha_x/20$:	31.70	19.05
Error Functions: $B_1 = S_w/(4*SQRT(\alpha_y*X))$	4.69	7.80
From App. C, Table G enter corresp. error function value -- erf(B_1):	1.000000	1.000000
$B_2 = S_d/(2*SQRT(\alpha_z*X))$	0.22	0.37
From App. C, Table G enter corresp. error function value -- erf(B_2):	0.247592	0.400371
Specific Discharge (U) - cm/day **R-19** $U=K*i/\Theta_T$:	0.047	0.047
Intermediate Solutions for R-26:		
$a = X/2*\alpha_x =$	5	5
$b = SQRT(1+(4*\lambda*\alpha_x/U) =$	1.000	1.000
$c = (1-b)*a =$	0.000	0.000
$d = EXP(c) =$	1.000	1.000
$C_{(x)} = d*erf(B2)*erf(B1)*C_{(source)} =$	3.491044	4.964605
R-26 Concentration at distance(X) from the source -- $C_{(X)}$ - mg/L:	**3.491 ppm**	**4.965 ppm**
SPLP Class I (mg/L):	3.5 ppm	5 ppm

Appendix F Laboratory Analytical Reports (CCDD Testing and Soil Import)

SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Suite 150, Geneva, IL 60134
Tel (708) 544-3260 Toll Free (800) 783-5227
Fax (708) 544-8587
www.suburbanlabs.com

October 30, 2014

Natalie Struble
Pioneer Environmental Services LLC
700 N. Sacramento Blvd., Suite 101
Chicago, IL 60612

Work Order: 1410C85

TEL: (773) 722-9200
FAX: (773) 722-9201
RE: 63rd and Halsted - 12-0646-103

Dear Natalie Struble:

Suburban Laboratories, Inc. received 3 sample(s) on 10/21/2014 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation on, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Kelly Culhane

Kelly Culhane
Project Manager
708-544-3260 ext. 212
kelly@suburbanlabs.com

SUBURBAN LABORATORIES, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Case Narrative

Client: PIONEER ENVIRONMENTAL
Project: 63rd and Halsted - 12-0646-103
WorkOrder: 1410C85
Temperature of samples upon receipt at lab: 5 C

Date: October 30, 2014
PO:
QC Level:
Chain of Custody: 106870

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All water analyses that are required to be performed in the field (e.g., pH, residual chlorine, sulfite, temperature, etc.) but are analyzed in the lab are identified as "in lab" and are considered past holding time. Following industry practices these results do not contain an "H" flag but are qualified as being analyzed in the lab.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

Workorder Specific Comments:

8270 PNAs
G = Samples subcontracted to STAT Analysis Corp. (IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP Lab Code 101202) , for some of the analysis requested. Their report is attached.
8260
Sample 1410C85-001A did not purge effectively from either of the 5035 vials and analysis was completed with sample obtained from the 4oz jar provided.

This report supersedes the report dated 10/30/2014

SUBURBAN LABORATORIES, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client: Pioneer Environmental Services LLC
Report Date: October 30, 2014
Project: 63rd and Halsted - 12-0646-103
Workorder: 1410C85
Client Sample ID: T-1
Matrix: Soil
Lab ID: 1410C85-001
Date Received: 10/21/2014 11:15 AM
Collection Date: 10/20/2014 0:00 AM

Parameter	Result	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
METALS by ICP	Method: -6010B-2, Dec-96					Analyst: jtl	
Antimony	3.19	2.50		mg/Kg-dry	1	10/23/2014 7:08 PM	25060
Arsenic	1.79	1.50		mg/Kg-dry	1	10/23/2014 7:08 PM	25060
Barium	16.8	0.100		mg/Kg-dry	1	10/23/2014 7:08 PM	25060
Beryllium	0.164	0.0500		mg/Kg-dry	1	10/23/2014 7:08 PM	25060
Cadmium	0.344	0.200		mg/Kg-dry	1	10/23/2014 7:08 PM	25060
Chromium	8.27	2.00		mg/Kg-dry	1	10/23/2014 7:08 PM	25060
Copper	6.28	0.200		mg/Kg-dry	1	10/23/2014 7:08 PM	25060
Lead	4.41	1.00		mg/Kg-dry	1	10/23/2014 7:08 PM	25060
Nickel	6.98	2.00		mg/Kg-dry	1	10/23/2014 7:08 PM	25060
Selenium	<0.500	0.500		mg/Kg-dry	1	10/23/2014 7:08 PM	25060
Silver	<0.100	0.100		mg/Kg-dry	1	10/23/2014 7:08 PM	25060
Thallium	0.603	0.500	J	mg/Kg-dry	1	10/23/2014 7:08 PM	25060
Zinc	25.8	2.00		mg/Kg-dry	1	10/23/2014 7:08 PM	25060
MERCURY by CVAA	Method: -7471B-1, Sep-94					Analyst: mjs	
Mercury	0.0306	0.0220	J	mg/Kg-dry	1	10/27/2014 4:21 PM	25102
ORGANOCHLORINE PESTICIDES	Method: -8081A-1, Dec-96					Analyst: mn	
4,4´-DDD	<0.00198	0.00198		mg/Kg-dry	1	10/29/2014 7:34 AM	25087
4,4´-DDE	<0.00198	0.00198		mg/Kg-dry	1	10/29/2014 7:34 AM	25087
4,4´-DDT	<0.00198	0.00198		mg/Kg-dry	1	10/29/2014 7:34 AM	25087
Aldrin	<0.000987	0.000987		mg/Kg-dry	1	10/29/2014 7:34 AM	25087
alpha-BHC	<0.000987	0.000987		mg/Kg-dry	1	10/29/2014 7:34 AM	25087
alpha-Chlordane	<0.000987	0.000987		mg/Kg-dry	1	10/29/2014 7:34 AM	25087
beta-BHC	<0.000987	0.000987		mg/Kg-dry	1	10/29/2014 7:34 AM	25087
Chlordane	<0.0197	0.0197		mg/Kg-dry	1	10/29/2014 7:34 AM	25087
delta-BHC	<0.000987	0.000987		mg/Kg-dry	1	10/29/2014 7:34 AM	25087
Dieldrin	<0.00198	0.00198		mg/Kg-dry	1	10/29/2014 7:34 AM	25087
Endosulfan I	<0.000987	0.000987		mg/Kg-dry	1	10/29/2014 7:34 AM	25087
Endosulfan II	<0.00198	0.00198		mg/Kg-dry	1	10/29/2014 7:34 AM	25087
Endosulfan sulfate	<0.00198	0.00198		mg/Kg-dry	1	10/29/2014 7:34 AM	25087
Endrin	<0.00198	0.00198		mg/Kg-dry	1	10/29/2014 7:34 AM	25087
Endrin aldehyde	<0.00198	0.00198		mg/Kg-dry	1	10/29/2014 7:34 AM	25087
Endrin ketone	<0.00198	0.00198		mg/Kg-dry	1	10/29/2014 7:34 AM	25087
gamma-BHC	<0.000987	0.000987		mg/Kg-dry	1	10/29/2014 7:34 AM	25087
gamma-Chlordane	<0.000987	0.000987		mg/Kg-dry	1	10/29/2014 7:34 AM	25087
Heptachlor	<0.000987	0.000987		mg/Kg-dry	1	10/29/2014 7:34 AM	25087
Heptachlor epoxide	<0.000987	0.000987		mg/Kg-dry	1	10/29/2014 7:34 AM	25087

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SUBURBAN LABORATORIES, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client: Pioneer Environmental Services LLC
Report Date: October 30, 2014
Project: 63rd and Halsted - 12-0646-103
Workorder: 1410C85
Client Sample ID: T-1
Matrix: Soil
Lab ID: 1410C85-001
Date Received: 10/21/2014 11:15 AM
Collection Date: 10/20/2014 0:00 AM

Parameter	Result	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
ORGANOCHLORINE PESTICIDES	Method: -8081A-1, Dec-96					Analyst: mn	
Methoxychlor	<0.00987	0.00987		mg/Kg-dry	1	10/29/2014 7:34 AM	25087
Toxaphene	<0.0395	0.0395		mg/Kg-dry	1	10/29/2014 7:34 AM	25087
Internal Quality Control Compounds							
Surr: Tetrachloro-m-xylene	44.9	0		%REC	1	10/29/2014 7:34 AM	25087
PCBS	Method: -8082-0, Dec-96					Analyst: mn	
Aroclor 1016	<0.0198	0.0198		mg/Kg-dry	1	10/28/2014 12:40 PM	25086
Aroclor 1221	<0.0198	0.0198		mg/Kg-dry	1	10/28/2014 12:40 PM	25086
Aroclor 1232	<0.0198	0.0198		mg/Kg-dry	1	10/28/2014 12:40 PM	25086
Aroclor 1242	<0.0198	0.0198		mg/Kg-dry	1	10/28/2014 12:40 PM	25086
Aroclor 1248	<0.0198	0.0198		mg/Kg-dry	1	10/28/2014 12:40 PM	25086
Aroclor 1254	<0.0198	0.0198		mg/Kg-dry	1	10/28/2014 12:40 PM	25086
Aroclor 1260	<0.0198	0.0198		mg/Kg-dry	1	10/28/2014 12:40 PM	25086
Internal Quality Control Compounds							
Surr: Tetrachloro-m-xylene	35.0	0		%REC	1	10/28/2014 12:40 PM	25086
VOLATILE ORGANIC COMPOUNDS	Method: -8260B-2, Dec-96					Analyst: ls	
Total 1,3-Dichloropropene	<0.00245	0.00245		mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
1,1,1-Trichloroethane	<0.00245	0.00245		mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
1,1,2,2-Tetrachloroethane	<0.00245	0.00245		mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
1,1,2-Trichloroethane	<0.00245	0.00245		mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
1,1-Dichloroethane	<0.00245	0.00245		mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
1,1-Dichloroethene	<0.00245	0.00245		mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
1,2-Dichloroethane	<0.00245	0.00245		mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
1,2-Dichloropropane	<0.00245	0.00245		mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
2-Butanone	<0.0245	0.0245		mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
2-Hexanone	<0.0612	0.0612		mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
4-Methyl-2-pentanone	<0.0612	0.0612		mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
Acetone	<0.0612	0.0612		mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
Benzene	<0.000612	0.000612		mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
Bromodichloromethane	<0.00245	0.00245		mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
Bromoform	<0.00245	0.00245		mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
Bromomethane	<0.00245	0.00245		mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
Carbon disulfide	<0.00245	0.00245		mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
Carbon tetrachloride	<0.00245	0.00245		mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
Chlorobenzene	<0.00245	0.00245		mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
Chloroethane	<0.00245	0.00245		mg/Kg-dry	2	10/29/2014 8:25 PM	R53039

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Chloroform	<0.00245	0.00245	mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
Chloromethane	<0.00245	0.00245	mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
cis-1,2-Dichloroethene	<0.00245	0.00245	mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
cis-1,3-Dichloropropene	<0.00245	0.00245	mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
Dibromochloromethane	<0.00245	0.00245	mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
Ethylbenzene	<0.00245	0.00245	mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
m,p-Xylene	<0.00490	0.00490	mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
Methyl tert-butyl ether	<0.00245	0.00245	mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
Methylene chloride	<0.0122	0.0122	mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
o-Xylene	<0.00245	0.00245	mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
Total Xylenes	<0.00490	0.00490	mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
Styrene	<0.00245	0.00245	mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
Tetrachloroethene	<0.00490	0.00490	mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
Toluene	<0.00245	0.00245	mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
trans-1,2-Dichloroethene	<0.00245	0.00245	mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
trans-1,3-Dichloropropene	<0.00245	0.00245	mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
Trichloroethene	<0.00245	0.00245	mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
Vinyl chloride	<0.00245	0.00245	mg/Kg-dry	2	10/29/2014 8:25 PM	R53039
Internal Quality Control Compounds						
Surr: 4-Bromofluorobenzene	97.2	0	%REC	2	10/29/2014 8:25 PM	R53039
Surr: Dibromofluoromethane	102	0	%REC	2	10/29/2014 8:25 PM	R53039
Surr: Toluene-d8	99.9	0	%REC	2	10/29/2014 8:25 PM	R53039
SEMIVOLATILE ORGANICS (BNAS)	Method: -8270C-3, Dec-96				Analyst: ls	
1,2,4-Trichlorobenzene	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
1,2-Dichlorobenzene	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
1,3-Dichlorobenzene	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
1,4-Dichlorobenzene	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
2,4,5-Trichlorophenol	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
2,4,6-Trichlorophenol	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
2,4-Dichlorophenol	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
2,4-Dimethylphenol	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
2,4-Dinitrophenol	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
2,4-Dinitrotoluene	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
2,6-Dinitrotoluene	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
2-Chloronaphthalene	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
2-Chlorophenol	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
2-Methylnaphthalene	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
2-Nitroaniline	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
2-Nitrophenol	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
3,3-Dichlorobenzidine	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
3-Nitroaniline	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
4,6-Dinitro-2-methylphenol	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
4-Bromophenyl phenyl ether	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
4-Chloro-3-methylphenol	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
4-Chloroaniline	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
4-Chlorophenyl phenyl ether	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
4-Nitroaniline	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
4-Nitrophenol	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
Bis(2-chloroethoxy)methane	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
Bis(2-chloroethyl)ether	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
Bis(2-chloroisopropyl)ether	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
Bis(2-ethylhexyl)phthalate	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063
Butyl benzyl phthalate	<0.298	0.298	mg/Kg-dry	1	10/27/2014 4:09 PM	25063

Rpt Ver: 11/4/2014 2:35 PM

SUBURBAN LABORATORIES, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client: Pioneer Environmental Services LLC
Report Date: October 30, 2014
Project: 63rd and Halsted - 12-0646-103
Workorder: 1410C85

Client Sample ID: T-1
Matrix: Soil

Lab ID: 1410C85-001 **Date Received:** 10/21/2014 11:15 AM **Collection Date:** 10/20/2014 0:00 AM

Parameter	Result	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
SEMIVOLATILE ORGANICS (BNAS)	Method: -8270C-3, Dec-96					Analyst: ls	
Carbazole	<0.298	0.298		mg/Kg-dry	1	10/27/2014 4:09 PM	25063
Di-n-butyl phthalate	<0.298	0.298		mg/Kg-dry	1	10/27/2014 4:09 PM	25063
Di-n-octyl phthalate	<0.298	0.298		mg/Kg-dry	1	10/27/2014 4:09 PM	25063
Dibenzofuran	<0.298	0.298		mg/Kg-dry	1	10/27/2014 4:09 PM	25063
Diethyl phthalate	<0.298	0.298		mg/Kg-dry	1	10/27/2014 4:09 PM	25063
Dimethyl phthalate	<0.298	0.298		mg/Kg-dry	1	10/27/2014 4:09 PM	25063
Hexachlorobenzene	<0.298	0.298		mg/Kg-dry	1	10/27/2014 4:09 PM	25063
Hexachlorobutadiene	<0.298	0.298		mg/Kg-dry	1	10/27/2014 4:09 PM	25063
Hexachlorocyclopentadiene	<0.298	0.298		mg/Kg-dry	1	10/27/2014 4:09 PM	25063
Hexachloroethane	<0.298	0.298		mg/Kg-dry	1	10/27/2014 4:09 PM	25063
Isophorone	<0.298	0.298		mg/Kg-dry	1	10/27/2014 4:09 PM	25063
m,p-Cresol	<0.298	0.298		mg/Kg-dry	1	10/27/2014 4:09 PM	25063
N-Nitroso-di-n-propylamine	<0.298	0.298		mg/Kg-dry	1	10/27/2014 4:09 PM	25063
N-Nitrosodiphenylamine	<0.298	0.298		mg/Kg-dry	1	10/27/2014 4:09 PM	25063
Nitrobenzene	<0.0596	0.0596		mg/Kg-dry	1	10/27/2014 4:09 PM	25063
o-Cresol	<0.298	0.298		mg/Kg-dry	1	10/27/2014 4:09 PM	25063
Pentachlorophenol	<0.298	0.298		mg/Kg-dry	1	10/27/2014 4:09 PM	25063
Phenol	<0.298	0.298		mg/Kg-dry	1	10/27/2014 4:09 PM	25063
Internal Quality Control Compounds							
Surr: 2,4,6-Tribromophenol	83.3			%REC	1	10/27/2014 4:09 PM	25063
Surr: 2-Fluorobiphenyl	69.7			%REC	1	10/27/2014 4:09 PM	25063
Surr: 2-Fluorophenol	72.0			%REC	1	10/27/2014 4:09 PM	25063
Surr: 4-Terphenyl-d14	87.6			%REC	1	10/27/2014 4:09 PM	25063
Surr: Nitrobenzene-d5	66.3			%REC	1	10/27/2014 4:09 PM	25063
Surr: Phenol-d5	79.4			%REC	1	10/27/2014 4:09 PM	25063
SEMIVOLATILE ORGANICS (BNAS), Subcontracted	Method: -8270C-3, Dec-96					Analyst: kac	
Subcontracted test	Attached	0	G	mg/Kg-dry	1	10/29/2014 12:00 AM	R53043
PERCENT MOISTURE	Method: -D2216-2005					Analyst: erw	
Percent Moisture	18	1.0		wt%	1	10/27/2014 8:47 AM	R52882

Client Sample ID: T-2
Matrix: Soil

Lab ID: 1410C85-002 **Date Received:** 10/21/2014 11:15 AM **Collection Date:** 10/20/2014 0:00 AM

Report

Rpt Ver: 11/4/2014 2:35 PM

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed	BatchID
METALS by ICP	Method: -6010B-2, Dec-96					Analyst: jtl	
Antimony	3.15	2.50		mg/Kg-dry	1	10/23/2014 7:15 PM	25060
Arsenic	<1.50	1.50		mg/Kg-dry	1	10/23/2014 7:15 PM	25060
Barium	14.4	0.100		mg/Kg-dry	1	10/23/2014 7:15 PM	25060
Beryllium	0.176	0.0500		mg/Kg-dry	1	10/23/2014 7:15 PM	25060
Cadmium	0.337	0.200		mg/Kg-dry	1	10/23/2014 7:15 PM	25060
Chromium	10.4	2.00		mg/Kg-dry	1	10/23/2014 7:15 PM	25060
Copper	6.78	0.200		mg/Kg-dry	1	10/23/2014 7:15 PM	25060
Lead	5.01	1.00		mg/Kg-dry	1	10/23/2014 7:15 PM	25060
Nickel	8.59	2.00		mg/Kg-dry	1	10/23/2014 7:15 PM	25060
Selenium	<0.500	0.500		mg/Kg-dry	1	10/23/2014 7:15 PM	25060
Silver	<0.100	0.100		mg/Kg-dry	1	10/23/2014 7:15 PM	25060
Thallium	0.760	0.500	J	mg/Kg-dry	1	10/23/2014 7:15 PM	25060
Zinc	25.4	2.00		mg/Kg-dry	1	10/23/2014 7:15 PM	25060
MERCURY by CVAA	Method: -7471B-1, Sep-94					Analyst: mjs	
Mercury	0.0303	0.0243	J	mg/Kg-dry	1	10/27/2014 4:23 PM	25102
ORGANOCHLORINE PESTICIDES	Method: -8081A-1, Dec-96					Analyst: mn	
4,4´-DDD	<0.00199	0.00199		mg/Kg-dry	1	10/29/2014 7:53 AM	25087
4,4´-DDE	<0.00199	0.00199		mg/Kg-dry	1	10/29/2014 7:53 AM	25087
4,4´-DDT	<0.00199	0.00199		mg/Kg-dry	1	10/29/2014 7:53 AM	25087
Aldrin	<0.000993	0.000993		mg/Kg-dry	1	10/29/2014 7:53 AM	25087
alpha-BHC	<0.000993	0.000993		mg/Kg-dry	1	10/29/2014 7:53 AM	25087
alpha-Chlordane	<0.000993	0.000993		mg/Kg-dry	1	10/29/2014 7:53 AM	25087
beta-BHC	<0.000993	0.000993		mg/Kg-dry	1	10/29/2014 7:53 AM	25087
Chlordane	<0.0198	0.0198		mg/Kg-dry	1	10/29/2014 7:53 AM	25087
delta-BHC	<0.000993	0.000993		mg/Kg-dry	1	10/29/2014 7:53 AM	25087
Dieldrin	<0.00199	0.00199		mg/Kg-dry	1	10/29/2014 7:53 AM	25087
Endosulfan I	<0.000993	0.000993		mg/Kg-dry	1	10/29/2014 7:53 AM	25087
Endosulfan II	<0.00199	0.00199		mg/Kg-dry	1	10/29/2014 7:53 AM	25087
Endosulfan sulfate	<0.00199	0.00199		mg/Kg-dry	1	10/29/2014 7:53 AM	25087
Endrin	<0.00199	0.00199		mg/Kg-dry	1	10/29/2014 7:53 AM	25087
Endrin aldehyde	<0.00199	0.00199		mg/Kg-dry	1	10/29/2014 7:53 AM	25087
Endrin ketone	<0.00199	0.00199		mg/Kg-dry	1	10/29/2014 7:53 AM	25087
gamma-BHC	<0.000993	0.000993		mg/Kg-dry	1	10/29/2014 7:53 AM	25087
gamma-Chlordane	<0.000993	0.000993		mg/Kg-dry	1	10/29/2014 7:53 AM	25087
Heptachlor	<0.000993	0.000993		mg/Kg-dry	1	10/29/2014 7:53 AM	25087
Heptachlor epoxide	<0.000993	0.000993		mg/Kg-dry	1	10/29/2014 7:53 AM	25087
Methoxychlor	<0.00993	0.00993		mg/Kg-dry	1	10/29/2014 7:53 AM	25087
Toxaphene	<0.0397	0.0397		mg/Kg-dry	1	10/29/2014 7:53 AM	25087
Internal Quality Control Compounds							
Surr: Tetrachloro-m-xylene	63.2	0		%REC	1	10/29/2014 7:53 AM	25087
PCBS	Method: -8082-0, Dec-96					Analyst: mn	
Aroclor 1016	<0.0199	0.0199		mg/Kg-dry	1	10/28/2014 12:59 PM	25086
Aroclor 1221	<0.0199	0.0199		mg/Kg-dry	1	10/28/2014 12:59 PM	25086
Aroclor 1232	<0.0199	0.0199		mg/Kg-dry	1	10/28/2014 12:59 PM	25086
Aroclor 1242	<0.0199	0.0199		mg/Kg-dry	1	10/28/2014 12:59 PM	25086
Aroclor 1248	<0.0199	0.0199		mg/Kg-dry	1	10/28/2014 12:59 PM	25086
Aroclor 1254	<0.0199	0.0199		mg/Kg-dry	1	10/28/2014 12:59 PM	25086

Rpt Ver: 11/4/2014 2:35 PM

Laboratory Results

Client: Pioneer Environmental Services LLC
Report Date: October 30, 2014
Project: 63rd and Halsted - 12-0646-103
Workorder: 1410C85

PCBS	Method: -8082-0, Dec-96				Analyst: mn	
Aroclor 1260	<0.0199	0.0199	mg/Kg-dry	1	10/28/2014 12:59 PM	25086
Internal Quality Control Compounds						
Surr: Tetrachloro-m-xylene	46.3	0	%REC	1	10/28/2014 12:59 PM	25086
VOLATILE ORGANIC COMPOUNDS	Method: -8260B-2, Dec-96				Analyst: ls	
Total 1,3-Dichloropropene	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
1,1,1-Trichloroethane	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
1,1,2,2-Tetrachloroethane	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
1,1,2-Trichloroethane	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
1,1-Dichloroethane	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
1,1-Dichloroethene	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
1,2-Dichloroethane	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
1,2-Dichloropropane	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
2-Butanone	<0.00909	0.00909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
2-Hexanone	<0.0227	0.0227	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
4-Methyl-2-pentanone	<0.0227	0.0227	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
Acetone	<0.0227	0.0227	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
Benzene	<0.000227	0.000227	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
Bromodichloromethane	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
Bromoform	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
Bromomethane	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
Carbon disulfide	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
Carbon tetrachloride	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
Chlorobenzene	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
Chloroethane	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
Chloroform	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
Chloromethane	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
cis-1,2-Dichloroethene	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
cis-1,3-Dichloropropene	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
Dibromochloromethane	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
Ethylbenzene	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
m,p-Xylene	<0.00182	0.00182	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
Methyl tert-butyl ether	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
Methylene chloride	<0.00455	0.00455	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
o-Xylene	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
Total Xylenes	<0.00182	0.00182	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
Styrene	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
Tetrachloroethene	<0.00182	0.00182	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
Toluene	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
trans-1,2-Dichloroethene	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
trans-1,3-Dichloropropene	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
Trichloroethene	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930
Vinyl chloride	<0.000909	0.000909	mg/Kg-dry	0.75	10/27/2014 12:25 PM	R52930

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Internal Quality Control Compounds						
Surr: 4-Bromofluorobenzene	95.8	0	%REC	0.75	10/27/2014 12:25 PM	R52930
Surr: Dibromofluoromethane	110	0	%REC	0.75	10/27/2014 12:25 PM	R52930
Surr: Toluene-d8	100	0	%REC	0.75	10/27/2014 12:25 PM	R52930

SEMIVOLATILE ORGANICS (BNAS) Method: -8270C-3, Dec-96 Analyst: ls

1,2,4-Trichlorobenzene	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
1,2-Dichlorobenzene	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
1,3-Dichlorobenzene	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
1,4-Dichlorobenzene	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
2,4,5-Trichlorophenol	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
2,4,6-Trichlorophenol	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
2,4-Dichlorophenol	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
2,4-Dimethylphenol	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
2,4-Dinitrophenol	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
2,4-Dinitrotoluene	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
2,6-Dinitrotoluene	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
2-Chloronaphthalene	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
2-Chlorophenol	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
2-Methylnaphthalene	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
2-Nitroaniline	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
2-Nitrophenol	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
3,3-Dichlorobenzidine	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
3-Nitroaniline	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
4,6-Dinitro-2-methylphenol	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
4-Bromophenyl phenyl ether	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
4-Chloro-3-methylphenol	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
4-Chloroaniline	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
4-Chlorophenyl phenyl ether	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
4-Nitroaniline	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
4-Nitrophenol	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
Bis(2-chloroethoxy)methane	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
Bis(2-chloroethyl)ether	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
Bis(2-chloroisopropyl)ether	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
Bis(2-ethylhexyl)phthalate	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
Butyl benzyl phthalate	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
Carbazole	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
Di-n-butyl phthalate	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
Di-n-octyl phthalate	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
Dibenzofuran	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
Diethyl phthalate	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
Dimethyl phthalate	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
Hexachlorobenzene	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
Hexachlorobutadiene	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
Hexachlorocyclopentadiene	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
Hexachloroethane	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
Isophorone	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
m,p-Cresol	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
N-Nitroso-di-n-propylamine	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
N-Nitrosodiphenylamine	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
Nitrobenzene	<0.0594	0.0594	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
o-Cresol	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
Pentachlorophenol	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063
Phenol	<0.297	0.297	mg/Kg-dry	1	10/27/2014 4:53 PM	25063

Rpt Ver: 11/4/2014 2:35 PM

Laboratory Results

Client: Pioneer Environmental Services LLC **Report Date:** October 30, 2014
Project: 63rd and Halsted - 12-0646-103 **Workorder:** 1410C85

SEMIVOLATILE ORGANICS (BNAS)	Method: -8270C-3, Dec-96					Analyst: ls	
Internal Quality Control Compounds							
Surr: 2,4,6-Tribromophenol	81.3			%REC	1	10/27/2014 4:53 PM	25063
Surr: 2-Fluorobiphenyl	61.3			%REC	1	10/27/2014 4:53 PM	25063
Surr: 2-Fluorophenol	63.3			%REC	1	10/27/2014 4:53 PM	25063
Surr: 4-Terphenyl-d14	93.1			%REC	1	10/27/2014 4:53 PM	25063
Surr: Nitrobenzene-d5	55.9			%REC	1	10/27/2014 4:53 PM	25063
Surr: Phenol-d5	71.1			%REC	1	10/27/2014 4:53 PM	25063
SEMIVOLATILE ORGANICS (BNAS), Subcontracted	Method: -8270C-3, Dec-96					Analyst: kac	
Subcontracted test	Attached	0	G	mg/Kg-dry	1	10/29/2014 12:00 AM	R53043
PERCENT MOISTURE	Method: -D2216-2005					Analyst: erw	
Percent Moisture	18	1.0		wt%	1	10/27/2014 8:47 AM	R52882

Client Sample ID: T-3 **Matrix:** Soil

Lab ID: 1410C85-003 **Date Received:** 10/21/2014 11:15 AM **Collection Date:** 10/20/2014 0:00 AM

Parameter	Result	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
METALS by ICP	Method: -6010B-2, Dec-96					Analyst: jtl	
Antimony	3.03	2.45		mg/Kg-dry	1	10/23/2014 7:22 PM	25060
Arsenic	<1.47	1.47		mg/Kg-dry	1	10/23/2014 7:22 PM	25060
Barium	12.1	0.0980		mg/Kg-dry	1	10/23/2014 7:22 PM	25060
Beryllium	0.150	0.0490		mg/Kg-dry	1	10/23/2014 7:22 PM	25060
Cadmium	0.334	0.196		mg/Kg-dry	1	10/23/2014 7:22 PM	25060
Chromium	7.83	1.96		mg/Kg-dry	1	10/23/2014 7:22 PM	25060
Copper	8.12	0.196		mg/Kg-dry	1	10/23/2014 7:22 PM	25060
Lead	4.76	0.980		mg/Kg-dry	1	10/23/2014 7:22 PM	25060
Nickel	7.66	1.96		mg/Kg-dry	1	10/23/2014 7:22 PM	25060
Selenium	<0.490	0.490		mg/Kg-dry	1	10/23/2014 7:22 PM	25060
Silver	<0.0980	0.0980		mg/Kg-dry	1	10/23/2014 7:22 PM	25060
Thallium	0.682	0.490	J	mg/Kg-dry	1	10/23/2014 7:22 PM	25060
Zinc	30.2	1.96		mg/Kg-dry	1	10/23/2014 7:22 PM	25060
MERCURY by CVAA	Method: -7471B-1, Sep-94					Analyst: mjs	
Mercury	0.0241	0.0219	J	mg/Kg-dry	1	10/27/2014 4:26 PM	25102
ORGANOCHLORINE PESTICIDES	Method: -8081A-1, Dec-96					Analyst: mn	
4,4´-DDD	<0.00196	0.00196		mg/Kg-dry	1	10/29/2014 8:12 AM	25087
4,4´-DDE	<0.00196	0.00196		mg/Kg-dry	1	10/29/2014 8:12 AM	25087
4,4´-DDT	<0.00196	0.00196		mg/Kg-dry	1	10/29/2014 8:12 AM	25087

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Aldrin	<0.000975	0.000975	mg/Kg-dry	1	10/29/2014 8:12 AM	25087
alpha-BHC	<0.000975	0.000975	mg/Kg-dry	1	10/29/2014 8:12 AM	25087
alpha-Chlordane	<0.000975	0.000975	mg/Kg-dry	1	10/29/2014 8:12 AM	25087
beta-BHC	<0.000975	0.000975	mg/Kg-dry	1	10/29/2014 8:12 AM	25087
Chlordane	<0.0194	0.0194	mg/Kg-dry	1	10/29/2014 8:12 AM	25087
delta-BHC	<0.000975	0.000975	mg/Kg-dry	1	10/29/2014 8:12 AM	25087
Dieldrin	<0.00196	0.00196	mg/Kg-dry	1	10/29/2014 8:12 AM	25087
Endosulfan I	<0.000975	0.000975	mg/Kg-dry	1	10/29/2014 8:12 AM	25087
Endosulfan II	<0.00196	0.00196	mg/Kg-dry	1	10/29/2014 8:12 AM	25087
Endosulfan sulfate	<0.00196	0.00196	mg/Kg-dry	1	10/29/2014 8:12 AM	25087
Endrin	<0.00196	0.00196	mg/Kg-dry	1	10/29/2014 8:12 AM	25087
Endrin aldehyde	<0.00196	0.00196	mg/Kg-dry	1	10/29/2014 8:12 AM	25087
Endrin ketone	<0.00196	0.00196	mg/Kg-dry	1	10/29/2014 8:12 AM	25087
gamma-BHC	<0.000975	0.000975	mg/Kg-dry	1	10/29/2014 8:12 AM	25087
gamma-Chlordane	<0.000975	0.000975	mg/Kg-dry	1	10/29/2014 8:12 AM	25087
Heptachlor	<0.000975	0.000975	mg/Kg-dry	1	10/29/2014 8:12 AM	25087
Heptachlor epoxide	<0.000975	0.000975	mg/Kg-dry	1	10/29/2014 8:12 AM	25087
Methoxychlor	<0.00975	0.00975	mg/Kg-dry	1	10/29/2014 8:12 AM	25087
Toxaphene	<0.0390	0.0390	mg/Kg-dry	1	10/29/2014 8:12 AM	25087
Internal Quality Control Compounds						
Surr: Tetrachloro-m-xylene	56.5	0	%REC	1	10/29/2014 8:12 AM	25087
PCBS	Method: -8082-0, Dec-96				Analyst: mn	
Aroclor 1016	<0.0196	0.0196	mg/Kg-dry	1	10/28/2014 1:18 PM	25086
Aroclor 1221	<0.0196	0.0196	mg/Kg-dry	1	10/28/2014 1:18 PM	25086
Aroclor 1232	<0.0196	0.0196	mg/Kg-dry	1	10/28/2014 1:18 PM	25086
Aroclor 1242	<0.0196	0.0196	mg/Kg-dry	1	10/28/2014 1:18 PM	25086
Aroclor 1248	<0.0196	0.0196	mg/Kg-dry	1	10/28/2014 1:18 PM	25086
Aroclor 1254	<0.0196	0.0196	mg/Kg-dry	1	10/28/2014 1:18 PM	25086
Aroclor 1260	<0.0196	0.0196	mg/Kg-dry	1	10/28/2014 1:18 PM	25086
Internal Quality Control Compounds						
Surr: Tetrachloro-m-xylene	61.3	0	%REC	1	10/28/2014 1:18 PM	25086
VOLATILE ORGANIC COMPOUNDS	Method: -8260B-2, Dec-96				Analyst: ls	
Total 1,3-Dichloropropene	<0.000999	0.000999	mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
1,1,1-Trichloroethane	<0.000999	0.000999	mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
1,1,2,2-Tetrachloroethane	<0.000999	0.000999	mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
1,1,2-Trichloroethane	<0.000999	0.000999	mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
1,1-Dichloroethane	<0.000999	0.000999	mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
1,1-Dichloroethene	<0.000999	0.000999	mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
1,2-Dichloroethane	<0.000999	0.000999	mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
1,2-Dichloropropane	<0.000999	0.000999	mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
2-Butanone	<0.00999	0.00999	mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
2-Hexanone	<0.0250	0.0250	mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
4-Methyl-2-pentanone	<0.0250	0.0250	mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
Acetone	<0.0250	0.0250	mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
Benzene	<0.000250	0.000250	mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
Bromodichloromethane	<0.000999	0.000999	mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
Bromoform	<0.000999	0.000999	mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
Bromomethane	<0.000999	0.000999	mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
Carbon disulfide	<0.00200	0.00200	mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
Carbon tetrachloride	<0.000999	0.000999	mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
Chlorobenzene	<0.000999	0.000999	mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930

Rpt Ver: 11/4/2014 2:35 PM

SUBURBAN LABORATORIES, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client: Pioneer Environmental Services LLC
Report Date: October 30, 2014
Project: 63rd and Halsted - 12-0646-103
Workorder: 1410C85
Client Sample ID: T-3
Matrix: Soil
Lab ID: 1410C85-003
Date Received: 10/21/2014 11:15 AM
Collection Date: 10/20/2014 0:00 AM

Parameter	Result	Report Limit	Qual	Units	DF	Date Analyzed	BatchID
VOLATILE ORGANIC COMPOUNDS	Method: -8260B-2, Dec-96					Analyst: ls	
Chloroethane	<0.000999	0.000999		mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
Chloroform	<0.000999	0.000999		mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
Chloromethane	<0.000999	0.000999		mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
cis-1,2-Dichloroethene	<0.000999	0.000999		mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
cis-1,3-Dichloropropene	<0.000999	0.000999		mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
Dibromochloromethane	<0.000999	0.000999		mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
Ethylbenzene	<0.000999	0.000999		mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
m,p-Xylene	<0.00200	0.00200		mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
Methyl tert-butyl ether	<0.000999	0.000999		mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
Methylene chloride	<0.00499	0.00499		mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
o-Xylene	<0.000999	0.000999		mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
Total Xylenes	<0.00200	0.00200		mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
Styrene	<0.000999	0.000999		mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
Tetrachloroethene	<0.00200	0.00200		mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
Toluene	<0.000999	0.000999		mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
trans-1,2-Dichloroethene	<0.000999	0.000999		mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
trans-1,3-Dichloropropene	<0.000999	0.000999		mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
Trichloroethene	<0.000999	0.000999		mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
Vinyl chloride	<0.000999	0.000999		mg/Kg-dry	0.82	10/27/2014 12:58 PM	R52930
Internal Quality Control Compounds							
Surr: 4-Bromofluorobenzene	96.7	0		%REC	0.82	10/27/2014 12:58 PM	R52930
Surr: Dibromofluoromethane	111	0		%REC	0.82	10/27/2014 12:58 PM	R52930
Surr: Toluene-d8	101	0		%REC	0.82	10/27/2014 12:58 PM	R52930
SEMIVOLATILE ORGANICS (BNAS)	Method: -8270C-3, Dec-96					Analyst: ls	
1,2,4-Trichlorobenzene	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
1,2-Dichlorobenzene	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
1,3-Dichlorobenzene	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
1,4-Dichlorobenzene	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
2,4,5-Trichlorophenol	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
2,4,6-Trichlorophenol	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
2,4-Dichlorophenol	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
2,4-Dimethylphenol	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
2,4-Dinitrophenol	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
2,4-Dinitrotoluene	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
2,6-Dinitrotoluene	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
2-Chloronaphthalene	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
2-Chlorophenol	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063

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2-Methylnaphthalene	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
2-Nitroaniline	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
2-Nitrophenol	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
3,3-Dichlorobenzidine	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
3-Nitroaniline	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
4,6-Dinitro-2-methylphenol	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
4-Bromophenyl phenyl ether	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
4-Chloro-3-methylphenol	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
4-Chloroaniline	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
4-Chlorophenyl phenyl ether	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
4-Nitroaniline	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
4-Nitrophenol	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
Bis(2-chloroethoxy)methane	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
Bis(2-chloroethyl)ether	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
Bis(2-chloroisopropyl)ether	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
Bis(2-ethylhexyl)phthalate	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
Butyl benzyl phthalate	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
Carbazole	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
Di-n-butyl phthalate	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
Di-n-octyl phthalate	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
Dibenzofuran	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
Diethyl phthalate	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
Dimethyl phthalate	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
Hexachlorobenzene	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
Hexachlorobutadiene	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
Hexachlorocyclopentadiene	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
Hexachloroethane	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
Isophorone	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
m,p-Cresol	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
N-Nitroso-di-n-propylamine	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
N-Nitrosodiphenylamine	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
Nitrobenzene	<0.0600	0.0600		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
o-Cresol	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
Pentachlorophenol	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
Phenol	<0.300	0.300		mg/Kg-dry	1	10/27/2014 5:36 PM	25063
Internal Quality Control Compounds							
Surr: 2,4,6-Tribromophenol	79.3			%REC	1	10/27/2014 5:36 PM	25063
Surr: 2-Fluorobiphenyl	74.2			%REC	1	10/27/2014 5:36 PM	25063
Surr: 2-Fluorophenol	77.6			%REC	1	10/27/2014 5:36 PM	25063
Surr: 4-Terphenyl-d14	89.8			%REC	1	10/27/2014 5:36 PM	25063
Surr: Nitrobenzene-d5	67.4			%REC	1	10/27/2014 5:36 PM	25063
Surr: Phenol-d5	76.4			%REC	1	10/27/2014 5:36 PM	25063
SEMIVOLATILE ORGANICS (BNAS), Subcontracted	Method: -8270C-3, Dec-96					Analyst: kac	
Subcontracted test	Attached	0	G	mg/Kg-dry	1	10/29/2014 12:00 AM	R53043
PERCENT MOISTURE	Method: -D2216-2005					Analyst: erw	
Percent Moisture	18	1.0		wt%	1	10/27/2014 8:47 AM	R52882

Rpt Ver: 11/4/2014 2:35 PM

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

October 30, 2014

Suburban Laboratories, Inc.
4140 Litt Drive
Hillside, IL 60162
Telephone: (708) 544-3260
Fax: (708) 544-8587

Analytical Report for STAT Work Order: 14100873 Revision 0

RE: 1410C85

Dear Kelly Culhane:

STAT Analysis received 3 samples for the referenced project on 10/23/2014 10:00:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,

Victoria Young
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

STAT Analysis Corporation

Date: October 30, 2014

Client: Suburban Laboratories, Inc.
Project: 1410C85
Work Order: 14100873 Revision 0

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
14100873-001A	1410C85-001D		10/20/2014	10/23/2014
14100873-002A	1410C85-002D		10/20/2014	10/23/2014
14100873-003A	1410C85-003D		10/20/2014	10/23/2014

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: October 30, 2014
Date Printed: October 30, 2014

ANALYTICAL RESULTS

Client: Suburban Laboratories, Inc.
Work Order: 14100873 Revision 0
Project: 1410C85
Lab ID: 14100873-001

Client Sample ID: 1410C85-001D
Collection Date: 10/20/2014
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS	**SW8270C (SW3550B)**			Prep Date: **10/29/2014**		Analyst: **DM**
Acenaphthene	ND	0.040		mg/Kg-dry	1	10/29/2014
Acenaphthylene	ND	0.040		mg/Kg-dry	1	10/29/2014
Anthracene	ND	0.040		mg/Kg-dry	1	10/29/2014
Benz(a)anthracene	ND	0.040		mg/Kg-dry	1	10/29/2014
Benzo(a)pyrene	ND	0.040		mg/Kg-dry	1	10/29/2014
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	10/29/2014
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	10/29/2014
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	10/29/2014
Chrysene	ND	0.040		mg/Kg-dry	1	10/29/2014
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	10/29/2014
Fluoranthene	ND	0.040		mg/Kg-dry	1	10/29/2014
Fluorene	ND	0.040		mg/Kg-dry	1	10/29/2014
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	10/29/2014
Naphthalene	ND	0.040		mg/Kg-dry	1	10/29/2014
Phenanthrene	ND	0.040		mg/Kg-dry	1	10/29/2014
Pyrene	ND	0.040		mg/Kg-dry	1	10/29/2014
Percent Moisture	**D2974**			Prep Date: **10/24/2014**		Analyst: **MD**
Percent Moisture	19.6	0.2	*	wt%	1	10/26/2014

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: October 30, 2014
Date Printed: October 30, 2014

ANALYTICAL RESULTS

Client: Suburban Laboratories, Inc.
Work Order: 14100873 Revision 0
Project: 1410C85
Lab ID: 14100873-002

Client Sample ID: 1410C85-002D
Collection Date: 10/20/2014
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS	**SW8270C (SW3550B)**			Prep Date: **10/29/2014**		Analyst: **DM**
Acenaphthene	ND	0.039		mg/Kg-dry	1	10/29/2014
Acenaphthylene	ND	0.039		mg/Kg-dry	1	10/29/2014
Anthracene	ND	0.039		mg/Kg-dry	1	10/29/2014
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	10/29/2014
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	10/29/2014
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	10/29/2014
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	10/29/2014
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	10/29/2014
Chrysene	ND	0.039		mg/Kg-dry	1	10/29/2014
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	10/29/2014
Fluoranthene	ND	0.039		mg/Kg-dry	1	10/29/2014
Fluorene	ND	0.039		mg/Kg-dry	1	10/29/2014
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	10/29/2014
Naphthalene	ND	0.039		mg/Kg-dry	1	10/29/2014
Phenanthrene	ND	0.039		mg/Kg-dry	1	10/29/2014
Pyrene	ND	0.039		mg/Kg-dry	1	10/29/2014
Percent Moisture	**D2974**			Prep Date: **10/24/2014**		Analyst: **MD**
Percent Moisture	19.1	0.2	*	wt%	1	10/26/2014

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: October 30, 2014
Date Printed: October 30, 2014

ANALYTICAL RESULTS

Client: Suburban Laboratories, Inc.
Work Order: 14100873 Revision 0
Project: 1410C85
Lab ID: 14100873-003

Client Sample ID: 1410C85-003D
Collection Date: 10/20/2014
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Polynuclear Aromatic Hydrocarbons by GC/MS	**SW8270C (SW3550B)**			Prep Date: **10/29/2014**		Analyst: **DM**
Acenaphthene	ND	0.040		mg/Kg-dry	1	10/29/2014
Acenaphthylene	ND	0.040		mg/Kg-dry	1	10/29/2014
Anthracene	ND	0.040		mg/Kg-dry	1	10/29/2014
Benz(a)anthracene	ND	0.040		mg/Kg-dry	1	10/29/2014
Benzo(a)pyrene	ND	0.040		mg/Kg-dry	1	10/29/2014
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	10/29/2014
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	10/29/2014
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	10/29/2014
Chrysene	ND	0.040		mg/Kg-dry	1	10/29/2014
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	10/29/2014
Fluoranthene	ND	0.040		mg/Kg-dry	1	10/29/2014
Fluorene	ND	0.040		mg/Kg-dry	1	10/29/2014
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	10/29/2014
Naphthalene	ND	0.040		mg/Kg-dry	1	10/29/2014
Phenanthrene	ND	0.040		mg/Kg-dry	1	10/29/2014
Pyrene	ND	0.040		mg/Kg-dry	1	10/29/2014
Percent Moisture	**D2974**			Prep Date: **10/24/2014**		Analyst: **MD**
Percent Moisture	17.5	0.2	*	wt%	1	10/26/2014

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

CHAIN OF CUSTODY RECORD

Omega COCID 2042	PAGE: 1	OF: 1

14100873

ADDRESS
Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150
Geneva, IL 60134
TEL: (708) 544-3260
FAX: (708) 544-8587
Website: www.suburbanlabs.com

SUB CONTRATOR:	STATANALYSIS	COMPANY:	STAT Analysis
ADDRESS:	2242 W. Harrison- Suite 200		
CITY, STATE, ZIP:	Chicago, IL 60612		
PHONE:	(312) 733-0551	FAX:	(312) 733-2386
ACCOUNT #:		EMAIL:	

SPECIAL INSTRUCTIONS / COMMENTS:

Please analyze for PNAs 8270 and dry weight and email the report to Kelly (kelly@suburbanlabs.com)

Need results 10/29/14

ITEM #	SAMPLE ID	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	COMMENTS: Methanol Preserved Weights HOT Sample Notation, Additional Sample Description
1	1410C85-001D	T-1	G-4oz-UN	Soil	10/20/2014	1	
	8270_sub						
2	1410C85-002D	T-2	G-4oz-UN	Soil	10/20/2014	1	
	8270_sub						
3	1410C85-003D	T-3	G-4oz-UN	Soil	10/20/2014	1	
	8270_sub						

Relinquished By:	Date: 10/23/14	Time: 10:00A	Received By:	Date: 10/23/14	Time: 1010
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☐ **RUSH** Next BD ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

FOR LAB USE ONLY

Temp of samples Amb. °C Attempt to Cool ?

Comments:

STAT Analysis Corporation

Sample Receipt Checklist

Client Name **SUBURBAN**

Date and Time Received: **10/23/2014 10:00:00 AM**

Work Order Number **14100873**

Received by: DJ

Checklist completed by: Signature 10/27/14 Date

Reviewed by: Initials 10/30/14 Date

Matrix:

Carrier name: Client Delivered

Shipping container/cooler in good condition?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels/containers?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☐	No ☑	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☒	Yes ☒	No ☒
Water - Samples pH checked?	Yes ☒	No ☒	Checked by:
Water - Samples properly preserved?	Yes ☒	No ☒	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted: Date contacted: Contacted by:

Response:

SUBURBAN LABORATORIES, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Prep Dates

Client: Pioneer Environmental Services LLC

Report Date: October 30, 2014

Project: 63rd and Halsted - 12-0646-103

Workorder: 1410C85

Sample ID	Client Sample ID	Collection Date	Prep Batch	Prep Test Name	Leachate Date	Prep Date
1410C85-001A	T-1	10/20/2014 12:00 AM				
1410C85-001C	T-1	10/20/2014 12:00 AM				
			25102	Mercury Prep for Solids		10/27/2014 10:36 AM
			25060	SOLID MICROWAVE PREP TOTAL METALS: ICP		10/23/2014 9:19 AM
			25087	SOLID PREP SONICATION: Pest		10/24/2014 2:07 PM
			25086	SOLID PREP SONICATION: PCB		10/24/2014 2:07 PM
			25063	SOLID PREP SONICATION: BNA		10/23/2014 2:24 PM
1410C85-001D	T-1	10/20/2014 12:00 AM				
1410C85-002A	T-2	10/20/2014 12:00 AM				
1410C85-002C	T-2	10/20/2014 12:00 AM				
			25102	Mercury Prep for Solids		10/27/2014 10:36 AM
			25060	SOLID MICROWAVE PREP TOTAL METALS: ICP		10/23/2014 9:19 AM
			25087	SOLID PREP SONICATION: Pest		10/24/2014 2:07 PM
			25086	SOLID PREP SONICATION: PCB		10/24/2014 2:07 PM
			25063	SOLID PREP SONICATION: BNA		10/23/2014 2:24 PM
1410C85-002D	T-2	10/20/2014 12:00 AM				
1410C85-003A	T-3	10/20/2014 12:00 AM				
1410C85-003C	T-3	10/20/2014 12:00 AM				
			25102	Mercury Prep for Solids		10/27/2014 10:36 AM
			25060	SOLID MICROWAVE PREP TOTAL METALS: ICP		10/23/2014 9:19 AM
			25087	SOLID PREP SONICATION: Pest		10/24/2014 2:07 PM
			25086	SOLID PREP SONICATION: PCB		10/24/2014 2:07 PM

Rpt Ver: 11/4/2014 2:35 PM

SUBURBAN LABORATORIES, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Prep Dates

Client: Pioneer Environmental Services LLC

Report Date: October 30, 2014

Project: 63rd and Halsted - 12-0646-103

Workorder: 1410C85

Sample ID	Client Sample ID	Collection Date	Prep Batch	Prep Test Name	Leachate Date	Prep Date
1410C85-003C	T-3	10/20/2014 12:00 AM				
			25063	SOLID PREP SONICATION: BNA		10/23/2014 2:24 PM
1410C85-003D	T-3	10/20/2014 12:00 AM				

Rpt Ver: 11/4/2014 2:35 PM

SUBURBAN LABORATORIES, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Qualifier Definitions

Report Date: October 30, 2014

WorkOrder: 1410C85

Qualifiers:

*	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
c	Analyte not in SLI scope of accreditation
C	Value is below Minimum Compound Limit.
E	Estimated, detected above quantitation range
G	Refer to case narrative page for specific comments
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limit (QL)
N	Tentatively identified compound
ND	Not Detected at the Reporting Limit
P	Present
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits

Kelly Culhane 1410C85

From: Natalie Struble <nstruble@pioneerees.com>
Sent: Wednesday, October 22, 2014 4:01 PM
To: Kelly Culhane
Subject: Re: SLI Report Attached for Workorder: 1410C02; Project Name: 63rd and Halsted - 12-0646-103

Hi Kelly,

Thanks for these results. Could you please run:

T-1: VOCs, SVOCs, Pesticides and PCBs, and total PP metals plus total barium -001A|B|C
T-2: VOCs, SVOCs, Pesticides and PCBs, and total PP metals plus total barium -002A|B|C
T-3: VOCs, SVOCs, Pesticides and PCBs, and total PP metals plus total barium -003A|B|C

Just to confirm, I believe that will be $481.30 per sample. Our client is looking for these results as soon as possible, so if it's possible to have these results in 5 days, I'd appreciate it.

Thanks,
Natalie

"Pioneer is Celebrating 25 Years in Business! Please click our logo below to view our new web site."

PIONEER
ENVIRONMENTAL SERVICES, LLC

Natalie Struble | Project Manager
Pioneer Environmental Services, LLC
700 N. Sacramento Blvd. Suite 101 | Chicago, IL 60612
Tel: 773-722-9200 x 208 | Fax: 773-722-9201
nstruble@pioneerEES.com | www.pioneerEES.com

On Oct 22, 2014, at 2:38 PM, Kelly Culhane <kelly@suburbanlabs.com> wrote:

Pioneer Environmental Services LLC
63rd and Halsted - 12-0646-103
Workorder: 1410C02

Please review the attached report and invoice. This is the only copy you will receive. Please forward invoice for payment and let me know if you have any questions.

Thank you for choosing Suburban Laboratories for your analytical project.

Kelly Culhane
Project Manager
(708) 544-3260 ext. 212
Suburban Laboratories, Inc

SUBURBAN LABORATORIES, Inc.

4140 Litt Drive Hillside, IL 60162 Tel. 708.544.3260 Fax: 708.544.8587 Toll Free: 800.783.LABS www.suburbanlabs.com

CHAIN OF CUSTODY RECORD # 106870

Company Name: Pioneer Environmental
Company Address: 7000 N. Sacramento Blvd
City: Chicago State: IL Zip: 60612
Phone: 773-722-9200 Fax: ☐ Fax Report
Email Address: nstruble@pioneeress.com Final Report will be emailed
Project ID / Location: 63rd + Halsted 12-0646-703
Project Manager (Report to): N. Struble
Sample Collector(s) Name: N. Struble

TURNAROUND TIME REQUESTED

☒ Normal ☐ RUSH* *Additional Rush Charges Approved.

*Date & Time Needed: _____

Normal TAT is specified on the price quotation or fee schedule. Rush work must be pre-approved and additional charges apply.

Specify Regulatory Program: (Required) ☐ None/Info Only

☐ LUST ☐ SRP ☐ SDWA

☐ 503 Sludge ☐ NPDES ☐ MWRDGC

☐ Disposal ☐ Other* *Please specify in comment section below.

ANALYSIS & METHOD REQUESTED

Enter an "X" in box below for request

Page 1 of 1

PO No.

Shipping Method

Reporting Level (at additional charge) 1 2

LAB USE ONLY

SLI ORDER No. 14D0002

Sample containers supplied by customer? ☐

Temperature of Received Samples: 5

Samples received the same day as collection? ☐

	SAMPLE IDENTIFICATION *Use One Line Per Preservation & Container Type*	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	pH	VOCs	SVOCs	Pesticides + PCBs	Total RP metals + Hg	Herbicides	R	Condition	Split	L
1	T-1	10/20/14		S		3x 1x	40mL 4oz	meoH/none		X								
2	T-2	10/20/14		↓		↓	↓	↓		X								
3	T-3	10/20/14		↓		↓	↓	↓		X								
4		/ /																
5		/ /																
6		/ /																
7		/ /																
8		/ /																
9		/ /																
10		/ /																
11		/ /																
12		/ /																

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:
Analyze pH first on 24 hr TAT, hold for balance of tests.

CONDITION CODES
1. Improper/damaged container/cap
2. Improper preservation
3. Insufficient sample volume
4. Headspace/air bubbles for VOC
5. Received past holding time
6. Received frozen
7. Label conflicts with COC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
	10/21/14		10/21/14				
Received By ☐ Ice present	Time 10:00	Received By ☐ Ice present	Time 11:15	Received By ☐ Ice present	Time	Received By ☐ Ice present	Time

Submission of Samples subject to Terms and Conditions on back. Rev. 07/20/08 White-Original, Pink-Sampler

IMAGE PACT PRINTING 708-460-8070

SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

April 16, 2015

Workorder: 1504733

Natalie Struble
Pioneer Environmental Services LLC
700 N. Sacramento Blvd., Suite 101
Chicago, IL 60612

TEL: (773) 722-9200
FAX: (773) 722-9201
RE: 2950 Centerpoint Way, Joliet

Dear Natalie Struble:

Suburban Laboratories, Inc. received 5 sample(s) on 4/9/2015 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Kelly Culhane

Kelly Culhane
Project Manager
708-544-3260 ext 212
kelly@suburbanlabs.com

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Case Narrative

Client: Pioneer Environmental Services LLC
Project: 2950 Centerpoint Way, Joliet
WorkOrder: 1504733
Temperature of samples upon receipt at SLI: 4 C

Date: April 16, 2015
PO #:
QC Level:
Chain of Custody #: 121308

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All water analyses that are required to be performed in the field (e.g., pH, residual chlorine, sulfite, temperature, etc.) but are analyzed in the lab are identified as "in lab" and are considered past holding time. Following industry practices these results do not contain an "H" flag but are qualified as being analyzed in the lab.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

Workorder Specific Comments:

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: 1504733

Client Sample ID: S-1
Lab ID: 1504733-001
Date Received: 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 9:43 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jtl	
Aluminum	10,900	2.45		mg/Kg-dry	1	04/13/2015 6:08 PM	28068
Antimony	5.30	1.47		mg/Kg-dry	1	04/13/2015 6:08 PM	28068
Arsenic	5.18	1.13		mg/Kg-dry	1	04/13/2015 6:08 PM	28068
Barium	129	0.123		mg/Kg-dry	1	04/13/2015 6:08 PM	28068
Beryllium	0.721	0.0363		mg/Kg-dry	1	04/13/2015 6:08 PM	28068
Cadmium	0.575	0.0735		mg/Kg-dry	1	04/13/2015 6:08 PM	28068
Calcium	7,230	6.13		mg/Kg-dry	10	04/14/2015 12:01 PM	28068
Chromium	13.1	0.0588		mg/Kg-dry	1	04/13/2015 6:08 PM	28068
Cobalt	11.4	0.123		mg/Kg-dry	1	04/13/2015 6:08 PM	28068
Copper	17.8	0.147		mg/Kg-dry	1	04/13/2015 6:08 PM	28068
Iron	17,400	0.613		mg/Kg-dry	1	04/13/2015 6:08 PM	28068
Lead	20.5	0.588		mg/Kg-dry	1	04/13/2015 6:08 PM	28068
Magnesium	4,540	0.613		mg/Kg-dry	1	04/13/2015 6:08 PM	28068
Manganese	850	0.0588		mg/Kg-dry	1	04/13/2015 6:08 PM	28068
Nickel	18.1	0.230		mg/Kg-dry	1	04/13/2015 6:08 PM	28068
Potassium	1,030	2.45		mg/Kg-dry	1	04/13/2015 6:08 PM	28068
Selenium	<1.27	1.27		mg/Kg-dry	1	04/13/2015 6:08 PM	28068
Silver	<0.0588	0.0588		mg/Kg-dry	1	04/13/2015 6:08 PM	28068
Sodium	48.9	1.23		mg/Kg-dry	1	04/14/2015 1:07 PM	28068
Thallium	2.87	0.436		mg/Kg-dry	1	04/13/2015 6:08 PM	28068
Vanadium	25.0	0.147		mg/Kg-dry	1	04/13/2015 6:08 PM	28068
Zinc	56.7	0.0735		mg/Kg-dry	1	04/13/2015 6:08 PM	28068
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96				Analyst: mn	
4,4´-DDD	<0.00209	0.00209		mg/Kg-dry	1	04/15/2015 5:23 PM	28071
4,4´-DDE	<0.00209	0.00209		mg/Kg-dry	1	04/15/2015 5:23 PM	28071
4,4´-DDT	<0.00209	0.00209		mg/Kg-dry	1	04/15/2015 5:23 PM	28071
Aldrin	<0.00104	0.00104		mg/Kg-dry	1	04/15/2015 5:23 PM	28071
alpha-BHC	<0.00104	0.00104		mg/Kg-dry	1	04/15/2015 5:23 PM	28071
alpha-Chlordane	<0.00104	0.00104		mg/Kg-dry	1	04/15/2015 5:23 PM	28071
beta-BHC	<0.00104	0.00104		mg/Kg-dry	1	04/15/2015 5:23 PM	28071
Chlordane	<0.0207	0.0207		mg/Kg-dry	1	04/15/2015 5:23 PM	28071
delta-BHC	<0.00104	0.00104		mg/Kg-dry	1	04/15/2015 5:23 PM	28071
Dieldrin	<0.00209	0.00209		mg/Kg-dry	1	04/15/2015 5:23 PM	28071
Endosulfan I	<0.00104	0.00104		mg/Kg-dry	1	04/15/2015 5:23 PM	28071

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: 1504733

Client Sample ID: S-1
Lab ID: 1504733-001 **Date Received:** 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 9:43 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96				Analyst: mn	
Endosulfan II	<0.00209	0.00209		mg/Kg-dry	1	04/15/2015 5:23 PM	28071
Endosulfan sulfate	<0.00209	0.00209		mg/Kg-dry	1	04/15/2015 5:23 PM	28071
Endrin	<0.00209	0.00209		mg/Kg-dry	1	04/15/2015 5:23 PM	28071
Endrin aldehyde	<0.00209	0.00209		mg/Kg-dry	1	04/15/2015 5:23 PM	28071
Endrin ketone	<0.00209	0.00209		mg/Kg-dry	1	04/15/2015 5:23 PM	28071
gamma-BHC	<0.00104	0.00104		mg/Kg-dry	1	04/15/2015 5:23 PM	28071
gamma-Chlordane	<0.00104	0.00104		mg/Kg-dry	1	04/15/2015 5:23 PM	28071
Heptachlor	<0.00104	0.00104		mg/Kg-dry	1	04/15/2015 5:23 PM	28071
Heptachlor epoxide	<0.00104	0.00104		mg/Kg-dry	1	04/15/2015 5:23 PM	28071
Methoxychlor	<0.0104	0.0104		mg/Kg-dry	1	04/15/2015 5:23 PM	28071
Toxaphene	<0.0416	0.0416		mg/Kg-dry	1	04/15/2015 5:23 PM	28071
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	52.0	33.7-156		%REC	1	04/15/2015 5:23 PM	28071
PCBS		Method: EPA-8082-Rev 0, Dec-96				Analyst: mn	
Aroclor 1016	<0.0209	0.0209		mg/Kg-dry	1	04/14/2015 6:44 PM	28069
Aroclor 1221	<0.0209	0.0209		mg/Kg-dry	1	04/14/2015 6:44 PM	28069
Aroclor 1232	<0.0209	0.0209		mg/Kg-dry	1	04/14/2015 6:44 PM	28069
Aroclor 1242	<0.0209	0.0209		mg/Kg-dry	1	04/14/2015 6:44 PM	28069
Aroclor 1248	<0.0209	0.0209		mg/Kg-dry	1	04/14/2015 6:44 PM	28069
Aroclor 1254	<0.0209	0.0209		mg/Kg-dry	1	04/14/2015 6:44 PM	28069
Aroclor 1260	<0.0209	0.0209		mg/Kg-dry	1	04/14/2015 6:44 PM	28069
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	67.5	33.7-156		%REC	1	04/14/2015 6:44 PM	28069
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: ks	
Total 1,3-Dichloropropene	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
1,1,1-Trichloroethane	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
1,1,2,2-Tetrachloroethane	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
1,1,2-Trichloroethane	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
1,1-Dichloroethane	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
1,1-Dichloroethene	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
1,2-Dichloroethane	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
1,2-Dichloropropane	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
2-Butanone	<0.0104	0.0104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
2-Hexanone	<0.0260	0.0260		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: 1504733

Client Sample ID: S-1
Lab ID: 1504733-001 **Date Received:** 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 9:43 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: ks	
4-Methyl-2-pentanone	<0.0260	0.0260		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
Acetone	<0.0260	0.0260		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
Benzene	<0.000260	0.000260		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
Bromodichloromethane	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
Bromoform	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
Bromomethane	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
Carbon disulfide	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
Carbon tetrachloride	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
Chlorobenzene	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
Chloroethane	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
Chloroform	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
Chloromethane	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
cis-1,2-Dichloroethene	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
cis-1,3-Dichloropropene	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
Dibromochloromethane	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
Ethylbenzene	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
m,p-Xylene	<0.00208	0.00208		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
Methyl tert-butyl ether	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
Methylene chloride	<0.00519	0.00519		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
o-Xylene	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
Total Xylenes	<0.00208	0.00208		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
Styrene	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
Tetrachloroethene	<0.00208	0.00208		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
Toluene	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
trans-1,2-Dichloroethene	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
trans-1,3-Dichloropropene	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
Trichloroethene	0.00135	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
Vinyl chloride	<0.00104	0.00104		mg/Kg-dry	0.83	04/13/2015 4:10 PM	R58230
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	89.8	85.9-111		%REC	0.83	04/13/2015 4:10 PM	R58230
SS: Dibromofluoromethane	109	87.5-113		%REC	0.83	04/13/2015 4:10 PM	R58230
SS: Toluene-d8	99.0	83.3-121		%REC	0.83	04/13/2015 4:10 PM	R58230
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,2,4-Trichlorobenzene	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
1,2-Dichlorobenzene	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: **1504733**

Client Sample ID: **S-1**
Lab ID: 1504733-001 **Date Received:** 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 9:43 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,3-Dichlorobenzene	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
1,4-Dichlorobenzene	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
2,4,5-Trichlorophenol	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
2,4,6-Trichlorophenol	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
2,4-Dichlorophenol	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
2,4-Dimethylphenol	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
2,4-Dinitrophenol	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
2,4-Dinitrotoluene	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
2,6-Dinitrotoluene	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
2-Chloronaphthalene	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
2-Chlorophenol	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
2-Methylnaphthalene	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
2-Nitroaniline	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
2-Nitrophenol	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
3,3-Dichlorobenzidine	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
3-Nitroaniline	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
4,6-Dinitro-2-methylphenol	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
4-Bromophenyl phenyl ether	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
4-Chloro-3-methylphenol	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
4-Chloroaniline	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
4-Chlorophenyl phenyl ether	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
4-Nitroaniline	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
4-Nitrophenol	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Acenaphthene	<0.0625	0.0625		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Acenaphthylene	<0.0625	0.0625		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Anthracene	<0.0625	0.0625		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Benzo(a)anthracene	<0.0625	0.0625		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Benzo(a)pyrene	<0.0625	0.0625		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Benzo(b)fluoranthene	<0.0625	0.0625		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Benzo(g,h,i)perylene	<0.0625	0.0625		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Benzo(k)fluoranthene	<0.0625	0.0625		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Bis(2-chloroethoxy)methane	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Bis(2-chloroethyl)ether	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Bis(2-chloroisopropyl)ether	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Bis(2-ethylhexyl)phthalate	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Butyl benzyl phthalate	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Carbazole	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: 1504733

Client Sample ID: S-1
Lab ID: 1504733-001 **Date Received:** 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 9:43 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Chrysene	<0.0625	0.0625		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Dibenzo(a,h)anthracene	<0.0625	0.0625		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Dibenzofuran	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Diethyl phthalate	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Dimethyl phthalate	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Di-n-butyl phthalate	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Di-n-octyl phthalate	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Fluoranthene	<0.0625	0.0625		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Fluorene	<0.0625	0.0625		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Hexachlorobenzene	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Hexachlorobutadiene	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Hexachlorocyclopentadiene	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Hexachloroethane	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Indeno(1,2,3-cd)pyrene	<0.0625	0.0625		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Isophorone	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
m,p-Cresol	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Naphthalene	<0.0625	0.0625		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Nitrobenzene	<0.0625	0.0625		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
N-Nitroso-di-n-propylamine	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
N-Nitrosodiphenylamine	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
o-Cresol	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Pentachlorophenol	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Phenanthrene	<0.0625	0.0625		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Phenol	<0.313	0.313		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Pyrene	<0.0625	0.0625		mg/Kg-dry	1	04/15/2015 6:56 PM	28121
Internal Quality Control Compounds							
SS: 2,4,6-Tribromophenol	91.9	0.1-136		%REC	1	04/15/2015 6:56 PM	28121
SS: 2-Fluorobiphenyl	89.0	16.3-118		%REC	1	04/15/2015 6:56 PM	28121
SS: 2-Fluorophenol	77.2	4.2-97		%REC	1	04/15/2015 6:56 PM	28121
SS: 4-Terphenyl-d14	94.8	0.1-147		%REC	1	04/15/2015 6:56 PM	28121
SS: Nitrobenzene-d5	77.8	0.1-119		%REC	1	04/15/2015 6:56 PM	28121
SS: Phenol-d5	74.8	9.82-111		%REC	1	04/15/2015 6:56 PM	28121
CYANIDE, TOTAL		Method: EPA-9014-Rev 0, Dec-96				Analyst: LAP	
Cyanide	<0.12	0.12		mg/Kg-dry	1	04/15/2015 2:53 PM	28096
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: mjs	

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: **1504733**

Client Sample ID: **S-1**
Lab ID: 1504733-001 **Date Received:** 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 9:43 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: mjs	
Mercury	0.0386	0.0243	J	mg/Kg-dry	1	04/10/2015 3:20 PM	28039
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: mkl	
pH	7.33	1.00		pH Units	1	04/09/2015 3:42 PM	R58138
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: drc	
Percent Moisture	20	1.0		wt%	1	04/14/2015 1:43 PM	R58260

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: 1504733

Client Sample ID: S-2
Lab ID: 1504733-002
Date Received: 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 9:49 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jtl	
Aluminum	10,900	2.43		mg/Kg-dry	1	04/13/2015 6:18 PM	28068
Antimony	4.86	1.46		mg/Kg-dry	1	04/13/2015 6:18 PM	28068
Arsenic	5.53	1.12		mg/Kg-dry	1	04/13/2015 6:18 PM	28068
Barium	118	0.121		mg/Kg-dry	1	04/13/2015 6:18 PM	28068
Beryllium	0.680	0.0359		mg/Kg-dry	1	04/13/2015 6:18 PM	28068
Cadmium	0.476	0.0728		mg/Kg-dry	1	04/13/2015 6:18 PM	28068
Calcium	4,290	6.07		mg/Kg-dry	10	04/14/2015 12:04 PM	28068
Chromium	13.5	0.0583		mg/Kg-dry	1	04/13/2015 6:18 PM	28068
Cobalt	7.08	0.121		mg/Kg-dry	1	04/13/2015 6:18 PM	28068
Copper	19.5	0.146		mg/Kg-dry	1	04/13/2015 6:18 PM	28068
Iron	16,900	0.607		mg/Kg-dry	1	04/13/2015 6:18 PM	28068
Lead	19.1	0.583		mg/Kg-dry	1	04/13/2015 6:18 PM	28068
Magnesium	2,920	0.607		mg/Kg-dry	1	04/13/2015 6:18 PM	28068
Manganese	422	0.0583		mg/Kg-dry	1	04/13/2015 6:18 PM	28068
Nickel	16.1	0.228		mg/Kg-dry	1	04/13/2015 6:18 PM	28068
Potassium	1,100	2.43		mg/Kg-dry	1	04/13/2015 6:18 PM	28068
Selenium	<1.26	1.26		mg/Kg-dry	1	04/13/2015 6:18 PM	28068
Silver	<0.0583	0.0583		mg/Kg-dry	1	04/13/2015 6:18 PM	28068
Sodium	40.7	1.21		mg/Kg-dry	1	04/14/2015 1:10 PM	28068
Thallium	1.13	0.432	J	mg/Kg-dry	1	04/13/2015 6:18 PM	28068
Vanadium	24.6	0.146		mg/Kg-dry	1	04/13/2015 6:18 PM	28068
Zinc	64.1	0.0728		mg/Kg-dry	1	04/13/2015 6:18 PM	28068
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96				Analyst: mn	
4,4´-DDD	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 5:42 PM	28071
4,4´-DDE	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 5:42 PM	28071
4,4´-DDT	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 5:42 PM	28071
Aldrin	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 5:42 PM	28071
alpha-BHC	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 5:42 PM	28071
alpha-Chlordane	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 5:42 PM	28071
beta-BHC	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 5:42 PM	28071
Chlordane	<0.0208	0.0208		mg/Kg-dry	1	04/15/2015 5:42 PM	28071
delta-BHC	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 5:42 PM	28071
Dieldrin	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 5:42 PM	28071
Endosulfan I	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 5:42 PM	28071

Suburban Laboratories, Inc.
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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet
Report Date: April 16, 2015
Workorder: 1504733

Client Sample ID: S-2
Lab ID: 1504733-002
Date Received: 04/09/2015 11:20 AM
Matrix: SOIL
Collection Date: 04/08/2015 9:49 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96				Analyst: mn	
Endosulfan II	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 5:42 PM	28071
Endosulfan sulfate	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 5:42 PM	28071
Endrin	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 5:42 PM	28071
Endrin aldehyde	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 5:42 PM	28071
Endrin ketone	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 5:42 PM	28071
gamma-BHC	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 5:42 PM	28071
gamma-Chlordane	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 5:42 PM	28071
Heptachlor	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 5:42 PM	28071
Heptachlor epoxide	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 5:42 PM	28071
Methoxychlor	<0.0105	0.0105		mg/Kg-dry	1	04/15/2015 5:42 PM	28071
Toxaphene	<0.0418	0.0418		mg/Kg-dry	1	04/15/2015 5:42 PM	28071
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	54.5	33.7-156		%REC	1	04/15/2015 5:42 PM	28071
PCBS		Method: EPA-8082-Rev 0, Dec-96				Analyst: mn	
Aroclor 1016	<0.0210	0.0210		mg/Kg-dry	1	04/14/2015 7:03 PM	28069
Aroclor 1221	<0.0210	0.0210		mg/Kg-dry	1	04/14/2015 7:03 PM	28069
Aroclor 1232	<0.0210	0.0210		mg/Kg-dry	1	04/14/2015 7:03 PM	28069
Aroclor 1242	<0.0210	0.0210		mg/Kg-dry	1	04/14/2015 7:03 PM	28069
Aroclor 1248	<0.0210	0.0210		mg/Kg-dry	1	04/14/2015 7:03 PM	28069
Aroclor 1254	<0.0210	0.0210		mg/Kg-dry	1	04/14/2015 7:03 PM	28069
Aroclor 1260	<0.0210	0.0210		mg/Kg-dry	1	04/14/2015 7:03 PM	28069
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	72.5	33.7-156		%REC	1	04/14/2015 7:03 PM	28069
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: ks	
Total 1,3-Dichloropropene	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
1,1,1-Trichloroethane	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
1,1,2,2-Tetrachloroethane	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
1,1,2-Trichloroethane	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
1,1-Dichloroethane	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
1,1-Dichloroethene	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
1,2-Dichloroethane	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
1,2-Dichloropropane	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
2-Butanone	<0.0101	0.0101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
2-Hexanone	<0.0252	0.0252		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: 1504733

Client Sample ID: S-2
Lab ID: 1504733-002 **Date Received:** 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 9:49 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: ks	
4-Methyl-2-pentanone	<0.0252	0.0252		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
Acetone	<0.0252	0.0252		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
Benzene	<0.000252	0.000252		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
Bromodichloromethane	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
Bromoform	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
Bromomethane	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
Carbon disulfide	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
Carbon tetrachloride	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
Chlorobenzene	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
Chloroethane	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
Chloroform	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
Chloromethane	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
cis-1,2-Dichloroethene	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
cis-1,3-Dichloropropene	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
Dibromochloromethane	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
Ethylbenzene	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
m,p-Xylene	<0.00201	0.00201		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
Methyl tert-butyl ether	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
Methylene chloride	<0.00503	0.00503		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
o-Xylene	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
Total Xylenes	<0.00201	0.00201		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
Styrene	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
Tetrachloroethene	<0.00201	0.00201		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
Toluene	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
trans-1,2-Dichloroethene	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
trans-1,3-Dichloropropene	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
Trichloroethene	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
Vinyl chloride	<0.00101	0.00101		mg/Kg-dry	0.8	04/13/2015 4:45 PM	R58230
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	93.6	85.9-111		%REC	0.8	04/13/2015 4:45 PM	R58230
SS: Dibromofluoromethane	104	87.5-113		%REC	0.8	04/13/2015 4:45 PM	R58230
SS: Toluene-d8	98.2	83.3-121		%REC	0.8	04/13/2015 4:45 PM	R58230
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,2,4-Trichlorobenzene	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
1,2-Dichlorobenzene	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: **1504733**

Client Sample ID: **S-2**
Lab ID: 1504733-002 **Date Received:** 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 9:49 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,3-Dichlorobenzene	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
1,4-Dichlorobenzene	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
2,4,5-Trichlorophenol	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
2,4,6-Trichlorophenol	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
2,4-Dichlorophenol	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
2,4-Dimethylphenol	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
2,4-Dinitrophenol	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
2,4-Dinitrotoluene	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
2,6-Dinitrotoluene	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
2-Chloronaphthalene	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
2-Chlorophenol	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
2-Methylnaphthalene	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
2-Nitroaniline	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
2-Nitrophenol	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
3,3-Dichlorobenzidine	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
3-Nitroaniline	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
4,6-Dinitro-2-methylphenol	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
4-Bromophenyl phenyl ether	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
4-Chloro-3-methylphenol	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
4-Chloroaniline	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
4-Chlorophenyl phenyl ether	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
4-Nitroaniline	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
4-Nitrophenol	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Acenaphthene	<0.0627	0.0627		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Acenaphthylene	<0.0627	0.0627		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Anthracene	<0.0627	0.0627		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Benzo(a)anthracene	<0.0627	0.0627		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Benzo(a)pyrene	<0.0627	0.0627		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Benzo(b)fluoranthene	<0.0627	0.0627		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Benzo(g,h,i)perylene	<0.0627	0.0627		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Benzo(k)fluoranthene	<0.0627	0.0627		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Bis(2-chloroethoxy)methane	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Bis(2-chloroethyl)ether	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Bis(2-chloroisopropyl)ether	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Bis(2-ethylhexyl)phthalate	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Butyl benzyl phthalate	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Carbazole	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: **1504733**

Client Sample ID: **S-2**
Lab ID: 1504733-002 **Date Received:** 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 9:49 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Chrysene	<0.0627	0.0627		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Dibenzo(a,h)anthracene	<0.0627	0.0627		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Dibenzofuran	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Diethyl phthalate	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Dimethyl phthalate	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Di-n-butyl phthalate	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Di-n-octyl phthalate	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Fluoranthene	<0.0627	0.0627		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Fluorene	<0.0627	0.0627		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Hexachlorobenzene	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Hexachlorobutadiene	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Hexachlorocyclopentadiene	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Hexachloroethane	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Indeno(1,2,3-cd)pyrene	<0.0627	0.0627		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Isophorone	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
m,p-Cresol	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Naphthalene	<0.0627	0.0627		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Nitrobenzene	<0.0627	0.0627		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
N-Nitroso-di-n-propylamine	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
N-Nitrosodiphenylamine	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
o-Cresol	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Pentachlorophenol	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Phenanthrene	<0.0627	0.0627		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Phenol	<0.314	0.314		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Pyrene	<0.0627	0.0627		mg/Kg-dry	1	04/15/2015 7:39 PM	28121
Internal Quality Control Compounds							
SS: 2,4,6-Tribromophenol	88.2	0.1-136		%REC	1	04/15/2015 7:39 PM	28121
SS: 2-Fluorobiphenyl	91.6	16.3-118		%REC	1	04/15/2015 7:39 PM	28121
SS: 2-Fluorophenol	77.5	4.2-97		%REC	1	04/15/2015 7:39 PM	28121
SS: 4-Terphenyl-d14	93.0	0.1-147		%REC	1	04/15/2015 7:39 PM	28121
SS: Nitrobenzene-d5	78.9	0.1-119		%REC	1	04/15/2015 7:39 PM	28121
SS: Phenol-d5	74.0	9.82-111		%REC	1	04/15/2015 7:39 PM	28121
CYANIDE, TOTAL		Method: EPA-9014-Rev 0, Dec-96				Analyst: LAP	
Cyanide	0.14	0.13		mg/Kg-dry	1	04/15/2015 2:54 PM	28096
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: mjs	

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: **1504733**

Client Sample ID: **S-2**
Lab ID: 1504733-002 **Date Received:** 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 9:49 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: mjs	
Mercury	0.0498	0.0232	J	mg/Kg-dry	1	04/10/2015 3:22 PM	28039
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: mkl	
pH	6.74	1.00		pH Units	1	04/09/2015 3:43 PM	R58138
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: drc	
Percent Moisture	21	1.0		wt%	1	04/14/2015 1:43 PM	R58260

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: 1504733

Client Sample ID: S-3
Lab ID: 1504733-003
Date Received: 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 9:56 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jtl	
Aluminum	10,300	2.48		mg/Kg-dry	1	04/13/2015 6:28 PM	28068
Antimony	4.29	1.49	J	mg/Kg-dry	1	04/13/2015 6:28 PM	28068
Arsenic	3.41	1.14	J	mg/Kg-dry	1	04/13/2015 6:28 PM	28068
Barium	111	0.124		mg/Kg-dry	1	04/13/2015 6:28 PM	28068
Beryllium	0.662	0.0366		mg/Kg-dry	1	04/13/2015 6:28 PM	28068
Cadmium	0.411	0.0743		mg/Kg-dry	1	04/13/2015 6:28 PM	28068
Calcium	5,210	6.19		mg/Kg-dry	10	04/14/2015 12:07 PM	28068
Chromium	13.1	0.0594		mg/Kg-dry	1	04/13/2015 6:28 PM	28068
Cobalt	7.93	0.124		mg/Kg-dry	1	04/13/2015 6:28 PM	28068
Copper	21.8	0.149		mg/Kg-dry	1	04/13/2015 6:28 PM	28068
Iron	16,100	0.619		mg/Kg-dry	1	04/13/2015 6:28 PM	28068
Lead	17.8	0.594		mg/Kg-dry	1	04/13/2015 6:28 PM	28068
Magnesium	3,170	0.619		mg/Kg-dry	1	04/13/2015 6:28 PM	28068
Manganese	461	0.0594		mg/Kg-dry	1	04/13/2015 6:28 PM	28068
Nickel	16.4	0.233		mg/Kg-dry	1	04/13/2015 6:28 PM	28068
Potassium	1,210	2.48		mg/Kg-dry	1	04/13/2015 6:28 PM	28068
Selenium	<1.29	1.29		mg/Kg-dry	1	04/13/2015 6:28 PM	28068
Silver	<0.0594	0.0594		mg/Kg-dry	1	04/13/2015 6:28 PM	28068
Sodium	49.6	1.24		mg/Kg-dry	1	04/14/2015 1:13 PM	28068
Thallium	1.41	0.441		mg/Kg-dry	1	04/13/2015 6:28 PM	28068
Vanadium	21.5	0.149		mg/Kg-dry	1	04/13/2015 6:28 PM	28068
Zinc	67.6	0.0743		mg/Kg-dry	1	04/13/2015 6:28 PM	28068
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96				Analyst: mn	
4,4´-DDD	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 6:01 PM	28071
4,4´-DDE	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 6:01 PM	28071
4,4´-DDT	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 6:01 PM	28071
Aldrin	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 6:01 PM	28071
alpha-BHC	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 6:01 PM	28071
alpha-Chlordane	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 6:01 PM	28071
beta-BHC	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 6:01 PM	28071
Chlordane	<0.0208	0.0208		mg/Kg-dry	1	04/15/2015 6:01 PM	28071
delta-BHC	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 6:01 PM	28071
Dieldrin	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 6:01 PM	28071
Endosulfan I	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 6:01 PM	28071

Suburban Laboratories, Inc.
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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: 1504733

Client Sample ID: S-3
Lab ID: 1504733-003
Date Received: 04/09/2015 11:20 AM
Matrix: SOIL
Collection Date: 04/08/2015 9:56 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96				Analyst: mn	
Endosulfan II	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 6:01 PM	28071
Endosulfan sulfate	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 6:01 PM	28071
Endrin	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 6:01 PM	28071
Endrin aldehyde	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 6:01 PM	28071
Endrin ketone	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 6:01 PM	28071
gamma-BHC	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 6:01 PM	28071
gamma-Chlordane	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 6:01 PM	28071
Heptachlor	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 6:01 PM	28071
Heptachlor epoxide	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 6:01 PM	28071
Methoxychlor	<0.0105	0.0105		mg/Kg-dry	1	04/15/2015 6:01 PM	28071
Toxaphene	<0.0418	0.0418		mg/Kg-dry	1	04/15/2015 6:01 PM	28071
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	49.6	33.7-156		%REC	1	04/15/2015 6:01 PM	28071
PCBS		Method: EPA-8082-Rev 0, Dec-96				Analyst: mn	
Aroclor 1016	<0.0210	0.0210		mg/Kg-dry	1	04/14/2015 7:22 PM	28069
Aroclor 1221	<0.0210	0.0210		mg/Kg-dry	1	04/14/2015 7:22 PM	28069
Aroclor 1232	<0.0210	0.0210		mg/Kg-dry	1	04/14/2015 7:22 PM	28069
Aroclor 1242	<0.0210	0.0210		mg/Kg-dry	1	04/14/2015 7:22 PM	28069
Aroclor 1248	<0.0210	0.0210		mg/Kg-dry	1	04/14/2015 7:22 PM	28069
Aroclor 1254	<0.0210	0.0210		mg/Kg-dry	1	04/14/2015 7:22 PM	28069
Aroclor 1260	<0.0210	0.0210		mg/Kg-dry	1	04/14/2015 7:22 PM	28069
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	80.0	33.7-156		%REC	1	04/14/2015 7:22 PM	28069
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: ks	
Total 1,3-Dichloropropene	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
1,1,1-Trichloroethane	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
1,1,2,2-Tetrachloroethane	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
1,1,2-Trichloroethane	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
1,1-Dichloroethane	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
1,1-Dichloroethene	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
1,2-Dichloroethane	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
1,2-Dichloropropane	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
2-Butanone	<0.00946	0.00946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
2-Hexanone	<0.0236	0.0236		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: 1504733

Client Sample ID: S-3
Lab ID: 1504733-003 **Date Received:** 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 9:56 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: ks	
4-Methyl-2-pentanone	<0.0236	0.0236		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
Acetone	<0.0236	0.0236		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
Benzene	<0.000236	0.000236		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
Bromodichloromethane	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
Bromoform	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
Bromomethane	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
Carbon disulfide	0.00112	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
Carbon tetrachloride	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
Chlorobenzene	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
Chloroethane	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
Chloroform	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
Chloromethane	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
cis-1,2-Dichloroethene	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
cis-1,3-Dichloropropene	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
Dibromochloromethane	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
Ethylbenzene	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
m,p-Xylene	<0.00189	0.00189		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
Methyl tert-butyl ether	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
Methylene chloride	<0.00473	0.00473		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
o-Xylene	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
Total Xylenes	<0.00189	0.00189		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
Styrene	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
Tetrachloroethene	<0.00189	0.00189		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
Toluene	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
trans-1,2-Dichloroethene	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
trans-1,3-Dichloropropene	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
Trichloroethene	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
Vinyl chloride	<0.000946	0.000946		mg/Kg-dry	0.75	04/13/2015 5:19 PM	R58230
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	92.9	85.9-111		%REC	0.75	04/13/2015 5:19 PM	R58230
SS: Dibromofluoromethane	103	87.5-113		%REC	0.75	04/13/2015 5:19 PM	R58230
SS: Toluene-d8	100	83.3-121		%REC	0.75	04/13/2015 5:19 PM	R58230
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,2,4-Trichlorobenzene	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
1,2-Dichlorobenzene	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: 1504733

Client Sample ID: S-3
Lab ID: 1504733-003 **Date Received:** 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 9:56 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,3-Dichlorobenzene	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
1,4-Dichlorobenzene	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
2,4,5-Trichlorophenol	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
2,4,6-Trichlorophenol	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
2,4-Dichlorophenol	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
2,4-Dimethylphenol	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
2,4-Dinitrophenol	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
2,4-Dinitrotoluene	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
2,6-Dinitrotoluene	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
2-Chloronaphthalene	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
2-Chlorophenol	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
2-Methylnaphthalene	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
2-Nitroaniline	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
2-Nitrophenol	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
3,3-Dichlorobenzidine	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
3-Nitroaniline	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
4,6-Dinitro-2-methylphenol	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
4-Bromophenyl phenyl ether	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
4-Chloro-3-methylphenol	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
4-Chloroaniline	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
4-Chlorophenyl phenyl ether	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
4-Nitroaniline	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
4-Nitrophenol	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Acenaphthene	<0.0630	0.0630		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Acenaphthylene	<0.0630	0.0630		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Anthracene	<0.0630	0.0630		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Benzo(a)anthracene	<0.0630	0.0630		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Benzo(a)pyrene	<0.0630	0.0630		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Benzo(b)fluoranthene	<0.0630	0.0630		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Benzo(g,h,i)perylene	<0.0630	0.0630		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Benzo(k)fluoranthene	<0.0630	0.0630		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Bis(2-chloroethoxy)methane	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Bis(2-chloroethyl)ether	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Bis(2-chloroisopropyl)ether	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Bis(2-ethylhexyl)phthalate	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Butyl benzyl phthalate	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Carbazole	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: **1504733**

Client Sample ID: **S-3**
Lab ID: 1504733-003 **Date Received:** 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 9:56 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Chrysene	<0.0630	0.0630		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Dibenzo(a,h)anthracene	<0.0630	0.0630		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Dibenzofuran	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Diethyl phthalate	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Dimethyl phthalate	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Di-n-butyl phthalate	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Di-n-octyl phthalate	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Fluoranthene	<0.0630	0.0630		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Fluorene	<0.0630	0.0630		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Hexachlorobenzene	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Hexachlorobutadiene	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Hexachlorocyclopentadiene	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Hexachloroethane	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Indeno(1,2,3-cd)pyrene	<0.0630	0.0630		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Isophorone	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
m,p-Cresol	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Naphthalene	<0.0630	0.0630		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Nitrobenzene	<0.0630	0.0630		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
N-Nitroso-di-n-propylamine	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
N-Nitrosodiphenylamine	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
o-Cresol	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Pentachlorophenol	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Phenanthrene	<0.0630	0.0630		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Phenol	<0.315	0.315		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Pyrene	<0.0630	0.0630		mg/Kg-dry	1	04/13/2015 4:44 PM	28048
Internal Quality Control Compounds							
SS: 2,4,6-Tribromophenol	77.0	0.1-136		%REC	1	04/13/2015 4:44 PM	28048
SS: 2-Fluorobiphenyl	77.0	16.3-118		%REC	1	04/13/2015 4:44 PM	28048
SS: 2-Fluorophenol	71.0	4.2-97		%REC	1	04/13/2015 4:44 PM	28048
SS: 4-Terphenyl-d14	95.2	0.1-147		%REC	1	04/13/2015 4:44 PM	28048
SS: Nitrobenzene-d5	68.2	0.1-119		%REC	1	04/13/2015 4:44 PM	28048
SS: Phenol-d5	69.9	9.82-111		%REC	1	04/13/2015 4:44 PM	28048
CYANIDE, TOTAL		Method: EPA-9014-Rev 0, Dec-96				Analyst: LAP	
Cyanide	<0.13	0.13		mg/Kg-dry	1	04/15/2015 2:55 PM	28096
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: mjs	

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: **1504733**

Client Sample ID: **S-3**
Lab ID: 1504733-003 **Date Received:** 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 9:56 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: mjs	
Mercury	0.0431	0.0245	J	mg/Kg-dry	1	04/10/2015 3:25 PM	28039
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: mkl	
pH	7.14	1.00		pH Units	1	04/09/2015 3:47 PM	R58138
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: drc	
Percent Moisture	21	1.0		wt%	1	04/14/2015 1:43 PM	R58260

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: 1504733

Client Sample ID: S-4
Lab ID: 1504733-004
Date Received: 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 10:04 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jtl	
Aluminum	10,900	2.50		mg/Kg-dry	1	04/13/2015 6:38 PM	28068
Antimony	4.38	1.50	J	mg/Kg-dry	1	04/13/2015 6:38 PM	28068
Arsenic	4.88	1.15	J	mg/Kg-dry	1	04/13/2015 6:38 PM	28068
Barium	108	0.125		mg/Kg-dry	1	04/13/2015 6:38 PM	28068
Beryllium	0.671	0.0370		mg/Kg-dry	1	04/13/2015 6:38 PM	28068
Cadmium	0.514	0.0750		mg/Kg-dry	1	04/13/2015 6:38 PM	28068
Calcium	8,750	6.25		mg/Kg-dry	10	04/14/2015 12:10 PM	28068
Chromium	13.4	0.0600		mg/Kg-dry	1	04/13/2015 6:38 PM	28068
Cobalt	7.29	0.125		mg/Kg-dry	1	04/13/2015 6:38 PM	28068
Copper	19.1	0.150		mg/Kg-dry	1	04/13/2015 6:38 PM	28068
Iron	17,200	0.625		mg/Kg-dry	1	04/13/2015 6:38 PM	28068
Lead	16.8	0.600		mg/Kg-dry	1	04/13/2015 6:38 PM	28068
Magnesium	4,950	0.625		mg/Kg-dry	1	04/13/2015 6:38 PM	28068
Manganese	356	0.0600		mg/Kg-dry	1	04/13/2015 6:38 PM	28068
Nickel	16.6	0.235		mg/Kg-dry	1	04/13/2015 6:38 PM	28068
Potassium	1,050	2.50		mg/Kg-dry	1	04/13/2015 6:38 PM	28068
Selenium	<1.30	1.30		mg/Kg-dry	1	04/13/2015 6:38 PM	28068
Silver	<0.0600	0.0600		mg/Kg-dry	1	04/13/2015 6:38 PM	28068
Sodium	46.4	1.25		mg/Kg-dry	1	04/14/2015 1:16 PM	28068
Thallium	1.16	0.445	J	mg/Kg-dry	1	04/13/2015 6:38 PM	28068
Vanadium	24.8	0.150		mg/Kg-dry	1	04/13/2015 6:38 PM	28068
Zinc	56.2	0.0750		mg/Kg-dry	1	04/13/2015 6:38 PM	28068
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96				Analyst: mn	
4,4´-DDD	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 6:20 PM	28071
4,4´-DDE	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 6:20 PM	28071
4,4´-DDT	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 6:20 PM	28071
Aldrin	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 6:20 PM	28071
alpha-BHC	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 6:20 PM	28071
alpha-Chlordane	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 6:20 PM	28071
beta-BHC	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 6:20 PM	28071
Chlordane	<0.0209	0.0209		mg/Kg-dry	1	04/15/2015 6:20 PM	28071
delta-BHC	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 6:20 PM	28071
Dieldrin	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 6:20 PM	28071
Endosulfan I	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 6:20 PM	28071

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: 1504733

Client Sample ID: S-4
Lab ID: 1504733-004
Date Received: 04/09/2015 11:20 AM
Matrix: SOIL
Collection Date: 04/08/2015 10:04 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96				Analyst: mn	
Endosulfan II	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 6:20 PM	28071
Endosulfan sulfate	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 6:20 PM	28071
Endrin	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 6:20 PM	28071
Endrin aldehyde	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 6:20 PM	28071
Endrin ketone	<0.00210	0.00210		mg/Kg-dry	1	04/15/2015 6:20 PM	28071
gamma-BHC	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 6:20 PM	28071
gamma-Chlordane	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 6:20 PM	28071
Heptachlor	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 6:20 PM	28071
Heptachlor epoxide	<0.00105	0.00105		mg/Kg-dry	1	04/15/2015 6:20 PM	28071
Methoxychlor	<0.0105	0.0105		mg/Kg-dry	1	04/15/2015 6:20 PM	28071
Toxaphene	<0.0419	0.0419		mg/Kg-dry	1	04/15/2015 6:20 PM	28071
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	55.3	33.7-156		%REC	1	04/15/2015 6:20 PM	28071
PCBS		Method: EPA-8082-Rev 0, Dec-96				Analyst: mn	
Aroclor 1016	<0.0210	0.0210		mg/Kg-dry	1	04/14/2015 7:41 PM	28069
Aroclor 1221	<0.0210	0.0210		mg/Kg-dry	1	04/14/2015 7:41 PM	28069
Aroclor 1232	<0.0210	0.0210		mg/Kg-dry	1	04/14/2015 7:41 PM	28069
Aroclor 1242	<0.0210	0.0210		mg/Kg-dry	1	04/14/2015 7:41 PM	28069
Aroclor 1248	<0.0210	0.0210		mg/Kg-dry	1	04/14/2015 7:41 PM	28069
Aroclor 1254	<0.0210	0.0210		mg/Kg-dry	1	04/14/2015 7:41 PM	28069
Aroclor 1260	<0.0210	0.0210		mg/Kg-dry	1	04/14/2015 7:41 PM	28069
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	76.3	33.7-156		%REC	1	04/14/2015 7:41 PM	28069
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: ks	
Total 1,3-Dichloropropene	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
1,1,1-Trichloroethane	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
1,1,2,2-Tetrachloroethane	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
1,1,2-Trichloroethane	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
1,1-Dichloroethane	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
1,1-Dichloroethene	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
1,2-Dichloroethane	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
1,2-Dichloropropane	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
2-Butanone	<0.00969	0.00969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
2-Hexanone	<0.0242	0.0242		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: 1504733

Client Sample ID: S-4
Lab ID: 1504733-004 **Date Received:** 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 10:04 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: ks	
4-Methyl-2-pentanone	<0.0242	0.0242		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
Acetone	<0.0242	0.0242		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
Benzene	<0.000242	0.000242		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
Bromodichloromethane	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
Bromoform	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
Bromomethane	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
Carbon disulfide	0.00161	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
Carbon tetrachloride	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
Chlorobenzene	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
Chloroethane	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
Chloroform	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
Chloromethane	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
cis-1,2-Dichloroethene	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
cis-1,3-Dichloropropene	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
Dibromochloromethane	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
Ethylbenzene	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
m,p-Xylene	<0.00194	0.00194		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
Methyl tert-butyl ether	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
Methylene chloride	<0.00484	0.00484		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
o-Xylene	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
Total Xylenes	<0.00194	0.00194		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
Styrene	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
Tetrachloroethene	<0.00194	0.00194		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
Toluene	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
trans-1,2-Dichloroethene	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
trans-1,3-Dichloropropene	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
Trichloroethene	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
Vinyl chloride	<0.000969	0.000969		mg/Kg-dry	0.77	04/13/2015 5:53 PM	R58230
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	91.6	85.9-111		%REC	0.77	04/13/2015 5:53 PM	R58230
SS: Dibromofluoromethane	105	87.5-113		%REC	0.77	04/13/2015 5:53 PM	R58230
SS: Toluene-d8	101	83.3-121		%REC	0.77	04/13/2015 5:53 PM	R58230
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,2,4-Trichlorobenzene	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
1,2-Dichlorobenzene	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: **1504733**

Client Sample ID: **S-4**
Lab ID: 1504733-004 **Date Received:** 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 10:04 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,3-Dichlorobenzene	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
1,4-Dichlorobenzene	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
2,4,5-Trichlorophenol	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
2,4,6-Trichlorophenol	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
2,4-Dichlorophenol	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
2,4-Dimethylphenol	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
2,4-Dinitrophenol	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
2,4-Dinitrotoluene	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
2,6-Dinitrotoluene	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
2-Chloronaphthalene	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
2-Chlorophenol	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
2-Methylnaphthalene	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
2-Nitroaniline	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
2-Nitrophenol	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
3,3-Dichlorobenzidine	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
3-Nitroaniline	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
4,6-Dinitro-2-methylphenol	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
4-Bromophenyl phenyl ether	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
4-Chloro-3-methylphenol	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
4-Chloroaniline	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
4-Chlorophenyl phenyl ether	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
4-Nitroaniline	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
4-Nitrophenol	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Acenaphthene	<0.0624	0.0624		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Acenaphthylene	<0.0624	0.0624		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Anthracene	<0.0624	0.0624		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Benzo(a)anthracene	<0.0624	0.0624		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Benzo(a)pyrene	<0.0624	0.0624		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Benzo(b)fluoranthene	<0.0624	0.0624		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Benzo(g,h,i)perylene	<0.0624	0.0624		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Benzo(k)fluoranthene	<0.0624	0.0624		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Bis(2-chloroethoxy)methane	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Bis(2-chloroethyl)ether	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Bis(2-chloroisopropyl)ether	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Bis(2-ethylhexyl)phthalate	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Butyl benzyl phthalate	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Carbazole	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: 1504733

Client Sample ID: S-4
Lab ID: 1504733-004 **Date Received:** 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 10:04 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Chrysene	<0.0624	0.0624		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Dibenzo(a,h)anthracene	<0.0624	0.0624		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Dibenzofuran	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Diethyl phthalate	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Dimethyl phthalate	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Di-n-butyl phthalate	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Di-n-octyl phthalate	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Fluoranthene	<0.0624	0.0624		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Fluorene	<0.0624	0.0624		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Hexachlorobenzene	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Hexachlorobutadiene	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Hexachlorocyclopentadiene	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Hexachloroethane	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Indeno(1,2,3-cd)pyrene	<0.0624	0.0624		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Isophorone	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
m,p-Cresol	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Naphthalene	<0.0624	0.0624		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Nitrobenzene	<0.0624	0.0624		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
N-Nitroso-di-n-propylamine	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
N-Nitrosodiphenylamine	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
o-Cresol	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Pentachlorophenol	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Phenanthrene	<0.0624	0.0624		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Phenol	<0.312	0.312		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Pyrene	<0.0624	0.0624		mg/Kg-dry	1	04/15/2015 8:23 PM	28121
Internal Quality Control Compounds							
SS: 2,4,6-Tribromophenol	91.1	0.1-136		%REC	1	04/15/2015 8:23 PM	28121
SS: 2-Fluorobiphenyl	94.6	16.3-118		%REC	1	04/15/2015 8:23 PM	28121
SS: 2-Fluorophenol	83.0	4.2-97		%REC	1	04/15/2015 8:23 PM	28121
SS: 4-Terphenyl-d14	97.3	0.1-147		%REC	1	04/15/2015 8:23 PM	28121
SS: Nitrobenzene-d5	82.3	0.1-119		%REC	1	04/15/2015 8:23 PM	28121
SS: Phenol-d5	77.4	9.82-111		%REC	1	04/15/2015 8:23 PM	28121
CYANIDE, TOTAL		Method: EPA-9014-Rev 0, Dec-96				Analyst: LAP	
Cyanide	<0.12	0.12		mg/Kg-dry	1	04/15/2015 2:56 PM	28096
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: mjs	

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: **1504733**

Client Sample ID: **S-4**
Lab ID: 1504733-004 **Date Received:** 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 10:04 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: mjs	
Mercury	0.0341	0.0226	J	mg/Kg-dry	1	04/10/2015 3:27 PM	28039
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: mkl	
pH	7.25	1.00		pH Units	1	04/09/2015 3:49 PM	R58138
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: drc	
Percent Moisture	21	1.0		wt%	1	04/14/2015 1:43 PM	R58260

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: 1504733

Client Sample ID: S-5
Lab ID: 1504733-005
Date Received: 04/09/2015 11:20 AM
Matrix: SOIL
Collection Date: 04/08/2015 10:10 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-6010B-Rev 2, Dec-96				Analyst: jtl	
Aluminum	9,980	2.48		mg/Kg-dry	1	04/13/2015 6:48 PM	28068
Antimony	4.39	1.49	J	mg/Kg-dry	1	04/13/2015 6:48 PM	28068
Arsenic	6.11	1.14		mg/Kg-dry	1	04/13/2015 6:48 PM	28068
Barium	115	0.124		mg/Kg-dry	1	04/13/2015 6:48 PM	28068
Beryllium	0.589	0.0366		mg/Kg-dry	1	04/13/2015 6:48 PM	28068
Cadmium	0.382	0.0743		mg/Kg-dry	1	04/13/2015 6:48 PM	28068
Calcium	3,340	6.19		mg/Kg-dry	10	04/14/2015 12:13 PM	28068
Chromium	12.3	0.0594		mg/Kg-dry	1	04/13/2015 6:48 PM	28068
Cobalt	8.97	0.124		mg/Kg-dry	1	04/13/2015 6:48 PM	28068
Copper	16.6	0.149		mg/Kg-dry	1	04/13/2015 6:48 PM	28068
Iron	16,900	0.619		mg/Kg-dry	1	04/13/2015 6:48 PM	28068
Lead	19.7	0.594		mg/Kg-dry	1	04/13/2015 6:48 PM	28068
Magnesium	2,500	0.619		mg/Kg-dry	1	04/13/2015 6:48 PM	28068
Manganese	583	0.0594		mg/Kg-dry	1	04/13/2015 6:48 PM	28068
Nickel	14.3	0.233		mg/Kg-dry	1	04/13/2015 6:48 PM	28068
Potassium	873	2.48		mg/Kg-dry	1	04/13/2015 6:48 PM	28068
Selenium	<1.29	1.29		mg/Kg-dry	1	04/13/2015 6:48 PM	28068
Silver	<0.0594	0.0594		mg/Kg-dry	1	04/13/2015 6:48 PM	28068
Sodium	36.6	1.24		mg/Kg-dry	1	04/14/2015 1:19 PM	28068
Thallium	1.89	0.441		mg/Kg-dry	1	04/13/2015 6:48 PM	28068
Vanadium	25.2	0.149		mg/Kg-dry	1	04/13/2015 6:48 PM	28068
Zinc	55.2	0.0743		mg/Kg-dry	1	04/13/2015 6:48 PM	28068
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96				Analyst: mn	
4,4´-DDD	<0.00209	0.00209		mg/Kg-dry	1	04/15/2015 6:39 PM	28071
4,4´-DDE	<0.00209	0.00209		mg/Kg-dry	1	04/15/2015 6:39 PM	28071
4,4´-DDT	<0.00209	0.00209		mg/Kg-dry	1	04/15/2015 6:39 PM	28071
Aldrin	<0.00104	0.00104		mg/Kg-dry	1	04/15/2015 6:39 PM	28071
alpha-BHC	<0.00104	0.00104		mg/Kg-dry	1	04/15/2015 6:39 PM	28071
alpha-Chlordane	<0.00104	0.00104		mg/Kg-dry	1	04/15/2015 6:39 PM	28071
beta-BHC	<0.00104	0.00104		mg/Kg-dry	1	04/15/2015 6:39 PM	28071
Chlordane	<0.0207	0.0207		mg/Kg-dry	1	04/15/2015 6:39 PM	28071
delta-BHC	<0.00104	0.00104		mg/Kg-dry	1	04/15/2015 6:39 PM	28071
Dieldrin	<0.00209	0.00209		mg/Kg-dry	1	04/15/2015 6:39 PM	28071
Endosulfan I	<0.00104	0.00104		mg/Kg-dry	1	04/15/2015 6:39 PM	28071

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: 1504733

Client Sample ID: S-5
Lab ID: 1504733-005
Date Received: 04/09/2015 11:20 AM
Matrix: SOIL
Collection Date: 04/08/2015 10:10 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
ORGANOCHLORINE PESTICIDES		Method: EPA-8081A-Rev 1, Dec-96				Analyst: mn	
Endosulfan II	<0.00209	0.00209		mg/Kg-dry	1	04/15/2015 6:39 PM	28071
Endosulfan sulfate	<0.00209	0.00209		mg/Kg-dry	1	04/15/2015 6:39 PM	28071
Endrin	<0.00209	0.00209		mg/Kg-dry	1	04/15/2015 6:39 PM	28071
Endrin aldehyde	<0.00209	0.00209		mg/Kg-dry	1	04/15/2015 6:39 PM	28071
Endrin ketone	<0.00209	0.00209		mg/Kg-dry	1	04/15/2015 6:39 PM	28071
gamma-BHC	<0.00104	0.00104		mg/Kg-dry	1	04/15/2015 6:39 PM	28071
gamma-Chlordane	<0.00104	0.00104		mg/Kg-dry	1	04/15/2015 6:39 PM	28071
Heptachlor	<0.00104	0.00104		mg/Kg-dry	1	04/15/2015 6:39 PM	28071
Heptachlor epoxide	<0.00104	0.00104		mg/Kg-dry	1	04/15/2015 6:39 PM	28071
Methoxychlor	<0.0104	0.0104		mg/Kg-dry	1	04/15/2015 6:39 PM	28071
Toxaphene	<0.0416	0.0416		mg/Kg-dry	1	04/15/2015 6:39 PM	28071
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	54.8	33.7-156		%REC	1	04/15/2015 6:39 PM	28071
PCBS		Method: EPA-8082-Rev 0, Dec-96				Analyst: mn	
Aroclor 1016	<0.0209	0.0209		mg/Kg-dry	1	04/14/2015 8:00 PM	28069
Aroclor 1221	<0.0209	0.0209		mg/Kg-dry	1	04/14/2015 8:00 PM	28069
Aroclor 1232	<0.0209	0.0209		mg/Kg-dry	1	04/14/2015 8:00 PM	28069
Aroclor 1242	<0.0209	0.0209		mg/Kg-dry	1	04/14/2015 8:00 PM	28069
Aroclor 1248	<0.0209	0.0209		mg/Kg-dry	1	04/14/2015 8:00 PM	28069
Aroclor 1254	<0.0209	0.0209		mg/Kg-dry	1	04/14/2015 8:00 PM	28069
Aroclor 1260	<0.0209	0.0209		mg/Kg-dry	1	04/14/2015 8:00 PM	28069
Internal Quality Control Compounds							
SS: Tetrachloro-m-xylene	78.8	33.7-156		%REC	1	04/14/2015 8:00 PM	28069
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: ks	
Total 1,3-Dichloropropene	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
1,1,1-Trichloroethane	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
1,1,2,2-Tetrachloroethane	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
1,1,2-Trichloroethane	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
1,1-Dichloroethane	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
1,1-Dichloroethene	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
1,2-Dichloroethane	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
1,2-Dichloropropane	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
2-Butanone	<0.0102	0.0102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
2-Hexanone	<0.0256	0.0256		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: 1504733

Client Sample ID: S-5
Lab ID: 1504733-005 **Date Received:** 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 10:10 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
VOLATILE ORGANIC COMPOUNDS		Method: EPA-8260B-Rev 2, Dec-96				Analyst: ks	
4-Methyl-2-pentanone	<0.0256	0.0256		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
Acetone	<0.0256	0.0256		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
Benzene	<0.000256	0.000256		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
Bromodichloromethane	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
Bromoform	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
Bromomethane	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
Carbon disulfide	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
Carbon tetrachloride	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
Chlorobenzene	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
Chloroethane	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
Chloroform	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
Chloromethane	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
cis-1,2-Dichloroethene	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
cis-1,3-Dichloropropene	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
Dibromochloromethane	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
Ethylbenzene	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
m,p-Xylene	<0.00204	0.00204		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
Methyl tert-butyl ether	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
Methylene chloride	<0.00511	0.00511		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
o-Xylene	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
Total Xylenes	<0.00204	0.00204		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
Styrene	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
Tetrachloroethene	<0.00204	0.00204		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
Toluene	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
trans-1,2-Dichloroethene	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
trans-1,3-Dichloropropene	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
Trichloroethene	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
Vinyl chloride	<0.00102	0.00102		mg/Kg-dry	0.81	04/13/2015 6:27 PM	R58230
Internal Quality Control Compounds							
SS: 4-Bromofluorobenzene	95.0	85.9-111		%REC	0.81	04/13/2015 6:27 PM	R58230
SS: Dibromofluoromethane	107	87.5-113		%REC	0.81	04/13/2015 6:27 PM	R58230
SS: Toluene-d8	99.8	83.3-121		%REC	0.81	04/13/2015 6:27 PM	R58230
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,2,4-Trichlorobenzene	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
1,2-Dichlorobenzene	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: **1504733**

Client Sample ID: **S-5**
Lab ID: 1504733-005 **Date Received:** 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 10:10 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
1,3-Dichlorobenzene	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
1,4-Dichlorobenzene	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
2,4,5-Trichlorophenol	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
2,4,6-Trichlorophenol	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
2,4-Dichlorophenol	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
2,4-Dimethylphenol	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
2,4-Dinitrophenol	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
2,4-Dinitrotoluene	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
2,6-Dinitrotoluene	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
2-Chloronaphthalene	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
2-Chlorophenol	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
2-Methylnaphthalene	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
2-Nitroaniline	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
2-Nitrophenol	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
3,3-Dichlorobenzidine	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
3-Nitroaniline	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
4,6-Dinitro-2-methylphenol	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
4-Bromophenyl phenyl ether	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
4-Chloro-3-methylphenol	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
4-Chloroaniline	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
4-Chlorophenyl phenyl ether	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
4-Nitroaniline	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
4-Nitrophenol	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Acenaphthene	<0.0631	0.0631		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Acenaphthylene	<0.0631	0.0631		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Anthracene	<0.0631	0.0631		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Benzo(a)anthracene	<0.0631	0.0631		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Benzo(a)pyrene	<0.0631	0.0631		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Benzo(b)fluoranthene	<0.0631	0.0631		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Benzo(g,h,i)perylene	<0.0631	0.0631		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Benzo(k)fluoranthene	<0.0631	0.0631		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Bis(2-chloroethoxy)methane	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Bis(2-chloroethyl)ether	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Bis(2-chloroisopropyl)ether	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Bis(2-ethylhexyl)phthalate	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Butyl benzyl phthalate	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Carbazole	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: 1504733

Client Sample ID: S-5
Lab ID: 1504733-005 **Date Received:** 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 10:10 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
SEMIVOLATILE ORGANICS (BNAS)		Method: EPA-8270C-Rev 3, Dec-96				Analyst: ls	
Chrysene	<0.0631	0.0631		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Dibenzo(a,h)anthracene	<0.0631	0.0631		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Dibenzofuran	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Diethyl phthalate	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Dimethyl phthalate	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Di-n-butyl phthalate	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Di-n-octyl phthalate	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Fluoranthene	<0.0631	0.0631		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Fluorene	<0.0631	0.0631		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Hexachlorobenzene	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Hexachlorobutadiene	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Hexachlorocyclopentadiene	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Hexachloroethane	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Indeno(1,2,3-cd)pyrene	<0.0631	0.0631		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Isophorone	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
m,p-Cresol	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Naphthalene	<0.0631	0.0631		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Nitrobenzene	<0.0631	0.0631		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
N-Nitroso-di-n-propylamine	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
N-Nitrosodiphenylamine	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
o-Cresol	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Pentachlorophenol	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Phenanthrene	<0.0631	0.0631		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Phenol	<0.316	0.316		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Pyrene	<0.0631	0.0631		mg/Kg-dry	1	04/13/2015 4:01 PM	28048
Internal Quality Control Compounds							
SS: 2,4,6-Tribromophenol	86.1	0.1-136		%REC	1	04/13/2015 4:01 PM	28048
SS: 2-Fluorobiphenyl	86.6	16.3-118		%REC	1	04/13/2015 4:01 PM	28048
SS: 2-Fluorophenol	72.2	4.2-97		%REC	1	04/13/2015 4:01 PM	28048
SS: 4-Terphenyl-d14	111	0.1-147		%REC	1	04/13/2015 4:01 PM	28048
SS: Nitrobenzene-d5	66.8	0.1-119		%REC	1	04/13/2015 4:01 PM	28048
SS: Phenol-d5	75.8	9.82-111		%REC	1	04/13/2015 4:01 PM	28048
CYANIDE, TOTAL		Method: EPA-9014-Rev 0, Dec-96				Analyst: LAP	
Cyanide	0.21	0.13		mg/Kg-dry	1	04/15/2015 2:57 PM	28096
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: mjs	

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Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Workorder: **1504733**

Client Sample ID: **S-5**
Lab ID: 1504733-005 **Date Received:** 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 10:10 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
MERCURY BY CVAA		Method: EPA-7471B-Rev 1, Sep-94				Analyst: mjs	
Mercury	0.0375	0.0252	J	mg/Kg-dry	1	04/10/2015 3:29 PM	28039
PH (IN LABORATORY) <ATC>		Method: EPA-9045C-Rev 3, Jan-95				Analyst: mkl	
pH	6.50	1.00		pH Units	1	04/09/2015 3:50 PM	R58138
PERCENT MOISTURE		Method: ASTM-D2216-Rev 2005				Analyst: drc	
Percent Moisture	21	1.0		wt%	1	04/14/2015 1:43 PM	R58260

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PREP DATES REPORT

Client: Pioneer Environmental Services LLC
Project: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Lab Order: **1504733**

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1504733-001A	4/8/2015 9:43:00 AM	28091	5035PR	CLOSED SYSTEM P&T VOC Prep		4/14/2015
1504733-001C		28096	CN_SPR	CYANIDE, Soil Prep		4/14/2015
		28039	HG_SPR	Mercury Prep for Solids		4/10/2015
		28048	3550_B	SOLID PREP SONICATION: BNA		4/10/2015
		28121	3550_B	SOLID PREP SONICATION: BNA		4/15/2015
		28069	3550_PCB	SOLID PREP SONICATION: PCB		4/13/2015
		28071	3550_P	SOLID PREP SONICATION: Pest		4/13/2015
		28068	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		4/13/2015
1504733-002A	4/8/2015 9:49:00 AM	28091	5035PR	CLOSED SYSTEM P&T VOC Prep		4/14/2015
1504733-002C		28096	CN_SPR	CYANIDE, Soil Prep		4/14/2015
		28039	HG_SPR	Mercury Prep for Solids		4/10/2015
		28048	3550_B	SOLID PREP SONICATION: BNA		4/10/2015
		28121	3550_B	SOLID PREP SONICATION: BNA		4/15/2015
		28069	3550_PCB	SOLID PREP SONICATION: PCB		4/13/2015
		28071	3550_P	SOLID PREP SONICATION: Pest		4/13/2015
		28068	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		4/13/2015
1504733-003A	4/8/2015 9:56:00 AM	28091	5035PR	CLOSED SYSTEM P&T VOC Prep		4/14/2015
1504733-003C		28096	CN_SPR	CYANIDE, Soil Prep		4/14/2015
		28039	HG_SPR	Mercury Prep for Solids		4/10/2015
		28048	3550_B	SOLID PREP SONICATION: BNA		4/10/2015
		28069	3550_PCB	SOLID PREP SONICATION: PCB		4/13/2015
		28071	3550_P	SOLID PREP SONICATION: Pest		4/13/2015
		28068	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		4/13/2015
1504733-004A	4/8/2015 10:04:00 A	28091	5035PR	CLOSED SYSTEM P&T VOC Prep		4/14/2015
1504733-004C		28096	CN_SPR	CYANIDE, Soil Prep		4/14/2015
		28039	HG_SPR	Mercury Prep for Solids		4/10/2015
		28121	3550_B	SOLID PREP SONICATION: BNA		4/15/2015
		28048	3550_B	SOLID PREP SONICATION: BNA		4/10/2015
		28069	3550_PCB	SOLID PREP SONICATION: PCB		4/13/2015
		28071	3550_P	SOLID PREP SONICATION: Pest		4/13/2015
		28068	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		4/13/2015

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

PREP DATES REPORT

Client: Pioneer Environmental Services LLC
Project: 2950 Centerpoint Way, Joliet

Report Date: April 16, 2015
Lab Order: **1504733**

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1504733-005A	4/8/2015 10:10:00 A	28091	5035PR	CLOSED SYSTEM P&T VOC Prep		4/14/2015
1504733-005C		28096	CN_SPR	CYANIDE, Soil Prep		4/14/2015
		28039	HG_SPR	Mercury Prep for Solids		4/10/2015
		28048	3550_B	SOLID PREP SONICATION: BNA		4/10/2015
		28069	3550_PCB	SOLID PREP SONICATION: PCB		4/13/2015
		28071	3550_P	SOLID PREP SONICATION: Pest		4/13/2015
		28068	200.2_ICP_PR	SOLID PREP TOTAL METALS: ICP		4/13/2015

Qualifiers:

*/x	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
C	Value is below Minimum Concentration Limit
c	Analyte not in SLI scope of accreditation
E	Estimated, detected above quantitation range
G	Refer to case narrative page for specific comments
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limit (QL)
N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit
P	Present
Q	Accredidation is not available from Wisconsin
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
T	Analyte detected in sample trip blank

SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Ste 150, Geneva, IL 60134 Tel. 708.544.3260 Fax: 708.544.8587 Toll Free: 800.783.LABS www.suburbanlabs.com

CHAIN OF CUSTODY RECORD

121308

Company Name: Pioneer Environmental
Company Address: 700 N. Sacramento Blvd #101
City: Chicago State: IL Zip: 60612
Phone: 773.722.9200 x208 Fax: ☐ Fax Report
Email Address: nstruble@pioneerees.com Final Report will be emailed
Project ID / Location: 2950 Centerpoint Way, Joliet
Project Manager (Report to): N. Struble
Sample Collector(s) Name: B. Storce

TURNAROUND TIME REQUESTED

☒ Normal ☐ RUSH* *Additional Rush Charges Approved.

*Date & Time Needed: _____

Normal TAT is specified on the price quotation or fee schedule. Rush work must be pre-approved and additional charges apply.

Specify Regulatory Program: (Required) ☐ None/Info Only

☐ LUST ☐ SRP ☐ CCDD
☐ 503 Sludge ☐ NPDES ☐ LUST REIMBURSEMENT
☐ Disposal ☐ Other* *Please specify in comment section below.

ANALYSIS & METHOD REQUESTED

Enter an "X" in box below for request

TCL (VOCs, SVOCs, Pest, PCBs, 23 TAL metals, Cyanide, pH)

Page 1 of 1
PO No.
Shipping Method
Reporting Level (at additional charge) 1 2 3 4

LAB USE ONLY

SLI ORDER No. 1504733
Sample containers supplied by customer? ☐ Yes
Temperature of Received Samples 4 °C
Samples received the same day as collection? ☐ Yes

	SAMPLE IDENTIFICATION *Use One Line Per Preservation & Container Type*	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	TCL	R	Condition	Split	LAB #
1	S-1	4/8/15	9:43	S		2 3	x 90z x 40mL	MeOH, none	X				
2	S-2	/ /	9:49						X				
3	S-3	/ /	956						X				
4	S-4	/ /	10:04						X				
5	S-~~6~~5	/ /	10:10						X				
6		/ /											
7		/ /											
8		/ /											
9		/ /											
10		/ /											
11		/ /											
12		/ /											

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) **CONTAINER:** 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) **PRESERVATIVE:** H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

CONDITION CODES
1. Improper/damaged container/cap
2. Improper preservation
3. Insufficient sample volume
4. Headspace/air bubbles for VOCs
5. Received past holding time
6. Received frozen
7. Label conflicts with COC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
	4/8/15		4/9/15				
Received By ☐ Ice present	Time 9:40	Received By ☐ Ice present	Time 11:20a	Received By ☐ Ice present	Time	Received By ☐ Ice present	Time

Submission of samples subject to Terms and Conditions on back. Rev. 07/20/08 White-Original, Pink-Sampler Copy

Rpt Ver: kelly 4/16/2015 4:45 PM

SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

April 24, 2015

Workorder: 1504F42

Natalie Struble
Pioneer Environmental Services LLC
700 N. Sacramento Blvd., Suite 101
Chicago, IL 60612

TEL: (773) 722-9200
FAX: (773) 722-9201
RE: 2950 Centerpoint Way, Joliet

Dear Natalie Struble:

Suburban Laboratories, Inc. received 1 sample(s) on 4/9/2015 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Kelly Culhane

Kelly Culhane
Project Manager
708-544-3260 ext 212
kelly@suburbanlabs.com

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Case Narrative

Client: Pioneer Environmental Services LLC
Project: 2950 Centerpoint Way, Joliet
WorkOrder: **1504F42**
Temperature of samples upon receipt at SLI: **4 C**

Date: April 24, 2015
PO #:
QC Level:
Chain of Custody #: 121308

General Comments:
- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All water analyses that are required to be performed in the field (e.g., pH, residual chlorine, sulfite, temperature, etc.) but are analyzed in the lab are identified as "in lab" and are considered past holding time. Following industry practices these results do not contain an "H" flag but are qualified as being analyzed in the lab.

Abbreviations:
- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

Method References:
For a complete list of method references please contact us.
- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

Workorder Specific Comments:

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Pioneer Environmental Services LLC
Project Name: 2950 Centerpoint Way, Joliet

Report Date: April 24, 2015
Workorder: **1504F42**

Client Sample ID: **S-1**
Lab ID: 1504F42-001 **Date Received:** 04/09/2015 11:20 AM

Matrix: SOIL
Collection Date: 04/08/2015 9:43 AM

Parameter	Result	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP, SPLP LEACHED		Method: EPA-1312/6010B-Rev 2, Dec-96				Analyst: jtl	
Aluminum	14.1	0.0174		mg/L	1	04/24/2015 12:59 PM	28310
Iron	12.4	0.0117		mg/L	1	04/24/2015 12:59 PM	28310
METALS BY ICPMS, SPLP LEACHED		Method: SW846-6020-Rev 0, Sep-94				Analyst: mjs	
Antimony	<0.000600	0.000600		mg/L	1	04/22/2015 11:32 AM	28245
Cobalt	0.00266	0.0000500		mg/L	1	04/22/2015 11:32 AM	28245
Manganese	0.0633	0.00100		mg/L	1	04/22/2015 11:32 AM	28245

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

PREP DATES REPORT

Client: Pioneer Environmental Services LLC
Project: 2950 Centerpoint Way, Joliet

Report Date: April 24, 2015
Lab Order: **1504F42**

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1504F42-001A	4/8/2015 9:43:00 AM	28310	200.2_ICPT_PR	AQUEOUS PREP TOTAL METALS: ICP		4/23/2015
		28245	200.2_ICPMSSP	AQUEOUS PREP TOTAL METALS: ICPMS		4/21/2015
		28223	1312LMLow	SPLP SAMPLE PREP (Metals)		4/20/2015

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Qualifier Definitions

WO#: **1504F42**
Date: **4/24/2015**

Qualifiers:

*/x	Value exceeds Maximum Contaminant Level
B	Analyte detected in the associated Method Blank
C	Value is below Minimum Concentration Limit
c	Analyte not in SLI scope of accreditation
E	Estimated, detected above quantitation range
G	Refer to case narrative page for specific comments
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limit (QL)
N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit
P	Present
Q	Accredidation is not available from Wisconsin
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
T	Analyte detected in sample trip blank

Kelly Culhane 1504F42

From: Natalie Struble <nstruble@pioneerees.com>
Sent: Monday, April 20, 2015 11:54 AM
To: Kelly Culhane
Subject: Re: SLI Report Attached for Workorder: 1504733; Project Name: 2950 Centerpoint Way, Joliet

Hi Kelly,

Thanks for the results for 2950 Centerpoint Way. Could you run SPLP for a few metals on a sample, and would it be possible to do a 2-day TAT for that?

If possible, I'd like to run sample S-1 for SPLP aluminum, SPLP antimony, SPLP cobalt, SPLP iron, and SPLP manganese. -001A

Thanks,
Natalie

PIONEER
ENVIRONMENTAL SERVICES, LLC

Natalie Struble | Project Manager
Pioneer Environmental Services, LLC
700 N. Sacramento Blvd. Suite 101 | Chicago, IL 60612
Tel: 773-722-9200 x 208 | Fax: 773-722-9201
nstruble@pioneerEES.com | www.pioneerEES.com

On Apr 16, 2015, at 4:52 PM, Kelly Culhane <kelly@suburbanlabs.com> wrote:

Pioneer Environmental Services LLC
2950 Centerpoint Way, Joliet
Workorder: 1504733

Please review the attached report and invoice. This is the only copy you will receive. Please forward invoice for payment and let me know if you have any questions.

Thank you for choosing Suburban Laboratories for your analytical project.

Kelly Culhane
Project Manager
(708) 544-3260 ext. 212
Suburban Laboratories, Inc

SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Ste 150, Geneva, IL 60134 Tel. 708.544.3260 Fax: 708.544.8587 Toll Free: 800.783.LABS www.suburbanlabs.com

CHAIN OF CUSTODY RECORD

121308

Company Name: Pioneer Environmental
Company Address: 700 N. Sacramento Blvd #101
City: Chicago State: IL Zip: 60612
Phone: 773.722.9200 x208 Fax Report
Email Address: nstruble@pioneerees.com Final Report will be emailed
Project ID / Location: 2950 Centerpoint Way, Joliet
Project Manager (Report to): N. Struble
Sample Collector(s) Name: B. Storce

TURNAROUND TIME REQUESTED

☒ Normal ☐ RUSH* *Additional Rush Charges Approved.

*Date & Time Needed: _____

Normal TAT is specified on the price quotation or fee schedule. Rush work must be pre-approved and additional charges apply.

Specify Regulatory Program: (Required) ☐ None/Info Only

☐ LUST ☐ SRP ☐ CCDD

☐ 503 Sludge ☐ NPDES ☐ LUST REIMBURSEMENT

☐ Disposal ☐ Other* *Please specify in comment section below.

ANALYSIS & METHOD REQUESTED

Enter an "X" in box below for request

TCL (VOCs, SVOCs, Pest, PCBs, 23 TAL Metals, Cyanide, pH)

Page | of |
PO No.
Shipping Method
Reporting Level (at additional charge) 1 2 3 4

LAB USE ONLY

SUBORDER No. 150733
Sample containers supplied by customer? ☐ Yes
Temperature of Received Samples 4 °C
Samples received the same day as collection? ☐ Yes

	SAMPLE IDENTIFICATION "Use One Line Per Preservation & Container Type"	COLLECTION DATE	COLLECTION TIME	MATRIX	GRAB/ COMP.	CONTAINERS Qty	CONTAINERS SIZE & TYPE	PRESERVATIVE	R	Condition	Split	LAB #
1	S-1	4/8/15	9:43	S		2	3 x 40mL	Meoh, none	X			
2	S-2		9:49						X			
3	S-3		9:56						X			
4	S-4		10:04						X			
5	S-5		10:10						X			
6												
7												
8												
9												
10												
11												
12												

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water(SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) CONTAINER: 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) PRESERVATIVE: H_2SO_4, HCl, HNO_3, Methanol (MeOH) NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

CONDITION CODES
1. Improper/damaged container/cap
2. Improper preservation
3. Insufficient sample volume
4. Headspace/air bubbles for VOCs
5. Received past holding time
6. Received frozen
7. Label conflicts with COC

1. Relinquished By	Date	2. Relinquished By	Date	3. Relinquished By	Date	4. Relinquished By	Date
	4/8/15		4/9/15				
Received By ☐ Ice present	Time 9:40	Received By ☐ Ice present	Time 11:20a	Received By ☐ Ice present	Time	Received By ☐ Ice present	Time

Submission of samples subject to Terms and Conditions on back. Rev. 07/20/08 White-Original, Pink-Sampler Copy

Rpt Ver: kelly 4/24/2015 3:44 PM

B

PREPARED BY:

Name: City of Chicago Department of Fleet and Facility Management
Kimberly Worthington

Address: 30 North LaSalle Street, Suite 300
Chicago, IL 60602-2575



Doc#: 1601416072 Fee: $62.00
Karen A.Yarbrough
Cook County Recorder of Deeds
Date: 01/14/2016 04:18 PM Pg: 1 of 13

RETURN TO:

Name: City of Chicago Department of Fleet and Facility Management
Kimberly Worthington

Address: 30 North LaSalle Street, Suite 300
Chicago, IL 60602-2575

THE ABOVE SPACE FOR RECORDER'S OFFICE

This Environmental No Further Remediation Letter must be submitted by the remediation applicant within 45 days of its receipt, to the Office of the Recorder of Cook County.

Illinois State EPA Number: 0316685080

The City of Chicago Department of Fleet and Facility Management, the Remediation Applicant, whose address is 30 North LaSalle Street, Suite 300, Chicago, IL 60602-2575 has performed investigative and/or remedial activities for the remediation site depicted on the attached Site Base Map and identified by the following:

1. Legal description or Reference to a Plat Showing the Boundaries: **LOT 2 PROPERTY DESCRIPTION:** LOT 2 IN HALSTED PARKWAY RESUBDIVISION BEING A RESUBDIVISION OF PART OF THE SOUTHEAST QUARTER OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED ON MARCH 30, 2015 AS DOCUMENT 1508916071, IN COOK COUNTY, ILLINOIS. **LOT 4 PROPERTY DESCRIPTION:** LOT 4 IN HALSTED PARKWAY RESUBDIVISION BEING A RESUBDIVISION OF PART OF THE SOUTHEAST QUARTER OF SECTION 17, TOWNSHIP 38 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED ON MARCH 30, 2015 AS DOCUMENT 1508916071, IN COOK COUNTY, ILLINOIS.

2. Common Address: Northwest corner of West 63rd Street and South Halsted Street, Chicago, IL

3. Real Estate Tax Index/Parcel Index Number: **LOT 2:** 20-17-422-036 (PART OF) 20-17-422-037 (PART OF); 20-17-422-038 (PART OF); 20-17-422-043. **LOT 4:** 20-17-429-028 (PART OF); 20-17-429-027; 20-17-429-026 (PART OF); 20-17-429-025

Bm

(PART OF); 20-17-429-024 (PART OF); 20-17-429-023 (PART OF); 20-17-429-011 (PART OF); 20-17-429-010 (PART OF); 20-17-429-051 (PART OF).

4. Remediation Site Owner: The City of Chicago Department of Fleet and Facility Management

5. Land Use: Industrial/Commercial

6. Site Investigation: Comprehensive

See NFR letter for other terms.

(Illinois EPA Site Remediation Program Environmental Notice)

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397
BRUCE RAUNER, GOVERNOR LISA BONNETT, DIRECTOR

(217) 524-3300

December 15, 2015

CERTIFIED MAIL
7013 2630 0001 4703 5882

City of Chicago Department of Fleet and Facility Management
Attn: Ms. Kimberly Worthington
30 North LaSalle Street, Suite 300
Chicago, IL 60602-2575

Re: 0316685080/Cook County
Chicago/Halsted Parkways Whole Foods—Lots 2&4
Site Remediation Program/Technical Reports
No Further Remediation Letter

Dear Ms. Worthington:

The *Remedial Action Completion Report—Lots 2&4* (received July 30, 2015/Log No.15-60040), as prepared by Pioneer Environmental Services, LLC for the above referenced Remediation Site, has been reviewed and approved by the Illinois Environmental Protection Agency ("Illinois EPA"). This Report demonstrates the remediation objectives approved for the site in accordance with 35 Illinois Administrative Code Part 742, including the indoor inhalation pathway, are above the existing concentrations of regulated substances and that the remedial action was completed in accordance with the *Remedial Action Plan* (received May 1, 2014/Log No.14-56534) and 35 Illinois Administrative Code Part 740.

The Remediation Site, consisting of 1.325 acres, is located at the Northwest corner of West 63rd Street and South Halsted Street, Chicago, Illinois. Pursuant to Section 58.10 of the Illinois Environmental Protection Act ("Act") (415 ILCS 5/1 et seq.), your request for a no further remediation determination is granted under the conditions and terms specified in this letter. The Remediation Applicant, as identified on the Illinois EPA's Site Remediation Program DRM-1 Form (May 1, 2014/Log No.14-56534), is the City of Chicago Department of Fleet and Facility Management.

This comprehensive No Further Remediation Letter ("Letter") signifies a release from further responsibilities under the Act for the performance of the approved remedial action. This Letter shall be considered prima facie evidence that the Remediation Site described in the attached Illinois EPA Site Remediation Program Environmental Notice and shown in the attached Site Base Map does not constitute a threat to human health and the environment and does not require further remediation under the Act if utilized in accordance with the terms of this Letter.

Conditions and Terms of Approval

Level of Remediation and Land Use Limitations

1) The Remediation Site is restricted to industrial/commercial land use.

2) The land use specified in this Letter may be revised if:

   a) Further investigation or remedial action has been conducted that documents the attainment of objectives appropriate for the new land use; and

   b) A new Letter is obtained and recorded in accordance with Title XVII of the Act and regulations adopted thereunder.

Preventive, Engineering, and Institutional Controls

The implementation and maintenance of the following controls are required as part of the approval of the remediation objectives for this Remediation Site.

Preventive Controls:

3) At a minimum, a safety plan should be developed to address possible worker exposure in the event that any future excavation and construction activities may occur within the contaminated soil. Any excavation within the contaminated soil will require implementation of a safety plan consistent with NIOSH Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities, OSHA regulations (particularly in 29 CFR 1910 and 1926), state and local regulations, and other USEPA guidance. Soil excavated below 1 ½ feet must be returned to the same depth from which it was excavated or properly managed or disposed in accordance with applicable state and federal regulations.

Engineering Controls:

4) The clean soil barrier, which is comprised of a minimum of 18 inches of clean soil underlain by a Mirafi 140N geotextile membrane covering the area shown on the attached Site Base Map, must remain over the contaminated soils. This clean soil barrier must be properly maintained as an engineered barrier to inhibit ingestion of the contaminated media.

Institutional Controls:

5) Any existing buildings or any future buildings constructed on the site must contain a full concrete slab-on-grade floor or full concrete basement floor and walls with no sumps.

6) Section 11-8-390 of the Municipal Code of Chicago (Potable Water Wells), effectively prohibits the installation and the use of potable water supply wells and is an acceptable institutional control under the following conditions:

a) The Remediation Applicant shall provide written notification to the City of Chicago and to owner(s) of all properties under which groundwater contamination attributable to the Remediation Site exceeds the objectives approved by the Illinois EPA. The notification shall include:

i) The name and address of the local unit of government;

ii) The citation of Section 11-8-390;

iii) A description of the property for which the owner is being sent notice by adequate legal description or by reference to a plat showing the boundaries;

iv) A statement that the ordinance restricting the groundwater use has been used by the Illinois EPA in reviewing a request for groundwater remediation objectives;

v) A statement as to the nature of the release and response action with the name, address, and Illinois EPA inventory identification number; and

vi) A statement as to where more information may be obtained regarding the ordinance.

b) Written proof of this notification shall be submitted to the Illinois EPA within forty-five (45) days from the date this Letter is recorded to:

Ms. P.J. Gebhardt
Illinois Environmental Protection Agency
Bureau of Land/RPMS #24
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276

c) The following activities shall be grounds for voidance of the ordinance as an institutional control and this Letter:

i) Modification of the referenced ordinance to allow potable uses of groundwater;

ii) Approval of a site-specific request, such as a variance, to allow use of groundwater at the Remediation Site or at the affected properties;

iii) Failure to provide written proof to the Illinois EPA within forty-five (45) days from the date this Letter is recorded of written notification to the City of Chicago and affected property owner(s) of the intent to use Section 11-8-390 of the Municipal Code of Chicago (Potable Water Wells), as an institutional control at the Remediation Site; and

iv) Violation of the terms and conditions of this No Further Remediation letter.

Other Terms

7) Areas outside the Remediation Site boundaries or specific engineered barrier locations, as shown in the Site Base Map, are not subject to any other institutional or engineered barrier controls.

8) Where a groundwater ordinance is used to assure long-term protection of human health (as identified under Paragraph 6 of this Letter), the Remediation Applicant must record a copy of the groundwater ordinance adopted and administered by a unit of local government along with this Letter.

9) Where the Remediation Applicant is not the sole owner of the Remediation Site, the Remediation Applicant shall complete the attached *Property Owner Certification of the No Further Remediation Letter under the Site Remediation Program* Form. This certification, by original signature of each property owner, or the authorized agent of the owner(s), of the Remediation Site or any portion thereof who is not a Remediation Applicant shall be recorded along with this Letter.

10) Further information regarding this Remediation Site can be obtained through a written request under the Freedom of Information Act (5 ILCS 140) to:

Illinois Environmental Protection Agency
Attn: Freedom of Information Act Officer
Division of Records Management #16
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276

11) Pursuant to Section 58.10(f) of the Act (415 ILCS 5/58.10(f)), should the Illinois EPA seek to void this Letter, the Illinois EPA shall provide notice to the current title holder and to the Remediation Applicant at the last known address. The notice shall specify the cause for the voidance, explain the provisions for appeal, and describe the facts in support of this cause. Specific acts or omissions that may result in the voidance of the Letter under Sections 58.10(e)(1)-(7) of the Act (415 ILCS 5/58.10(e)(1)-(7)) include, but shall not be limited to:

a) Any violation of institutional controls or the designated land use restrictions;

b) The failure to operate and maintain preventive or engineering controls or to comply with any applicable groundwater monitoring plan;

c) The disturbance or removal of contamination that has been left in-place in accordance with the Remedial Action Plan. Access to soil contamination may be allowed if, during and after any access, public health and the environment are protected consistent with the Remedial Action Plan;

d) The failure to comply with the recording requirements for this Letter;

e) Obtaining the Letter by fraud or misrepresentation;

f) Subsequent discovery of contaminants, not identified as part of the investigative or remedial activities upon which the issuance of the Letter was based, that pose a threat to human health or the environment;

g) The failure to pay the No Further Remediation Assessment Fee within forty-five (45) days after receiving a request for payment from the Illinois EPA;

h) The failure to pay in full the applicable fees under the Review and Evaluation Services Agreement within forty-five (45) days after receiving a request for payment from the Illinois EPA.

12) Pursuant to Section 58.10(d) of the Act, this Letter shall apply in favor of the following persons:

a) City of Chicago Department of Fleet and Facility Management;

b) The owner and operator of the Remediation Site;

c) Any parent corporation or subsidiary of the owner of the Remediation Site;

d) Any co-owner, either by joint-tenancy, right of survivorship, or any other party sharing a relationship with the owner of the Remediation Site;

e) Any holder of a beneficial interest of a land trust or inter vivos trust, whether revocable or irrevocable, involving the Remediation Site;

f) Any mortgagee or trustee of a deed of trust of the owner of the Remediation Site or any assignee, transferee, or any successor-in-interest thereto;

g) Any successor-in-interest of the owner of the Remediation Site;

h) Any transferee of the owner of the Remediation Site whether the transfer was by sale, bankruptcy proceeding, partition, dissolution of marriage, settlement or adjudication of any civil action, charitable gift, or bequest;

i) Any heir or devisee of the owner of the Remediation Site;

j) Any financial institution, as that term is defined in Section 2 of the Illinois Banking Act and to include the Illinois Housing Development Authority, that has acquired the ownership, operation, management, or control of the Remediation Site through foreclosure or under the terms of a security interest held by the financial institution, under the terms of an extension of credit made by the financial institution, or any successor-in-interest thereto; or

k) In the case of a fiduciary (other than a land trustee), the estate, trust estate, or other interest in property held in a fiduciary capacity, and a trustee, executor, administrator, guardian, receiver, conservator, or other person who holds the remediated site in a fiduciary capacity, or a transferee of such party.

13) This letter, including all attachments, must be recorded as a single instrument within forty-five (45) days of receipt with the Office of the Recorder of Cook County. For recording purposes, the Illinois EPA Site Remediation Program Environmental Notice attached to this Letter should be the first page of the instrument filed. This Letter shall not be effective until officially recorded by the Office of the Recorder of Cook County in accordance with Illinois law so that it forms a permanent part of the chain of title for the Halsted Parkways Lots 2&4 property.

14) Within thirty (30) days of this Letter being recorded by the Office of the Recorder of Cook County, a certified copy of this Letter, as recorded, shall be obtained and submitted to the Illinois EPA to:

Ms. P.J. Gebhardt
Illinois Environmental Protection Agency
Bureau of Land/RPMS #24
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794-9276

15) In accordance with Section 58.10(g) of the Act, a No Further Remediation Assessment Fee based on the costs incurred for the Remediation Site by the Illinois EPA for review and evaluation services will be applied in addition to the fees applicable under the Review and Evaluation Services Agreement. Request for payment of the No Further Remediation Assessment Fee will be included with the billing statement.

If you have any questions regarding the Halsted Parkways, Lots 2&4 property, you may contact the Illinois EPA project manager, Rhett M. Rossi at 217 524-3300.

Sincerely,

Gregory W. Dunn, Acting Manager
Remedial Project Management Section
Division of Remediation Management
Bureau of Land

Attachments: Illinois EPA Site Remediation Program Environmental Notice
Site Base Map
Property Owner Certification of No Further Remediation Letter under the Site Remediation Program Form
Instructions for Filing the NFR Letter

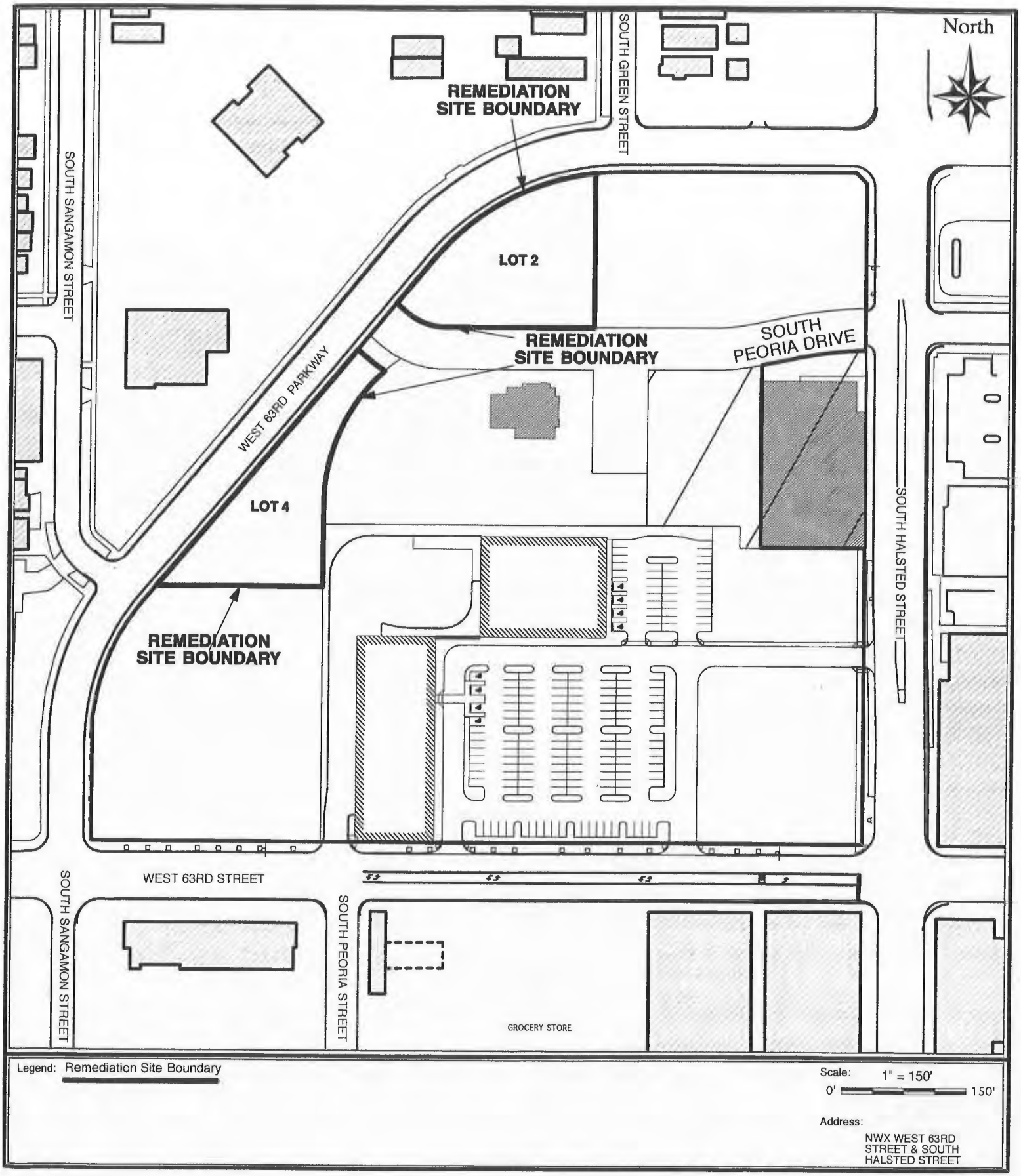
cc: Pioneer Environmental Services, LLC
Attn: Ms. Natalie Struble
700 N. Sacramento Blvd, Suite 101
Chicago, IL 60612

Bureau of Land File
Ms. PJ Gebhardt

Commissioner, Department of Fleet and Facility Management
30 North LaSalle Street, Suite 300
Chicago, Illinois 60602-2575

SITE BASE MAP

LPC# 0316685080 - COOK COUNTY
CHICAGO / NWX WEST 63RD STREET & SOUTH HALSTED STREET
SITE REMEDIATION / TECHNICAL REPORTS



The following is said ordinance as passed:

Be It Ordained by the City Council of the City of Chicago:

SECTION 1. Chapter 11-8 of the Municipal Code of Chicago is hereby amended by adding a new Section 11-8-385 and by amending Section 11-8-390 by inserting the language in italics, as follows:

11-8-385 Potable Water Defined.

Potable water is any water used for human consumption, including, but not limited to water used for drinking, bathing, washing dishes, preparing foods and watering gardens in which produce intended for human consumption is grown.

11-8-390 Prohibited Use Of Secondary Water; *Prohibited Installation Of New Potable Water Supply Wells.*

No secondary water shall overflow into or be discharged into any surge tank, storage tank, or reservoir, or shall in any way be piped or conveyed into the water supply system of any building, structure, or premises to become a part of or be mixed with the fresh water supply from the mains of the Chicago Waterworks System either inside of the premises or in the water service pipe. Secondary water shall not be piped to or used in any plumbing fixture, or for cooling crushers, rollers, or mixers where foods, candies, liquids or materials are manufactured for human or animal consumption. No connection, tap, or opening shall be made in a water distribution system other than an approved water distribution system which will permit such water being used for drinking.

Wherever the fire-protective equipment in any building, structure or premises has service from the Chicago Waterworks System, no pipe or other conduit which conveys secondary water shall be cross-connected to the fire-protective equipment. All fire-protective equipment connected to the Chicago Waterworks System shall be constructed in such manner that

ORIGINAL

all tanks, pipes, pumps, surge tanks, and fire hydrants can be thoroughly drained, flushed and cleaned by the owners of such equipment and premises and there shall be no direct connections from the tanks, pipes and other equipment to any drainage pipes or sewers. *No groundwater well, cistern or other groundwater collection device installed after the effective date of this amendatory ordinance may be used to supply any potable water supply system, except at points of withdrawal by the City of Chicago or by units of local government pursuant to intergovernmental agreement with the City of Chicago.*

SECTION 2. Section 2-30-030 of the Municipal Code of Chicago is hereby amended by deleting the language in brackets and inserting the language in italics, as follows:

2-30-030 Commissioner -- Powers And Duties Designated.

The commissioner of the environment shall have the following powers and duties:

* * * * *

(21) To enter into grant agreements, cooperation agreements and other agreements or contracts with governmental entities, private business and civic and community groups necessary to implement the Green Streets Program and other urban forestry, beautification and environmental enhancement programs; *and agreements to implement the State of Illinois Site Remediation Program;*

SECTION 3. This ordinance shall be in full force and effect from and after its passage and approval.

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118 Form C.C. 19 SM 7-14-84 (17265)

STATE OF ILLINOIS, }
County of Cook. } ss.

I, JAMES J. LASKI, City Clerk of the City of Chicago in the County of Cook and State of Illinois, DO HEREBY CERTIFY that the annexed and foregoing is a true and correct copy of that certain ordinance now on file in my office...amending...Title 11,... ...Chapter 8 and Title 2, Chapter 30 of Municipal Code of Chicago by establishing ...the definition and regulation of the potable water supply system and Empowerment ...of Commissioner of Environment for Implementation of State of Illinois Site... ...Remediation Program.

I DO FURTHER CERTIFY that the said ordinance was passed by the City Council of the said City of Chicago on the...fourteenth...(14th) day of...May..., A.D. 1997 and deposited in my office on the...fourteenth...(14th) day of...May..., A.D. 19 97.

I DO FURTHER CERTIFY that the vote on the question of the passage of the said ordinance by the said City Council was taken by yeas and nays and recorded in the Journal of the Proceedings of the said City Council, and that the result of said vote so taken was as follows, to wit: Yeas...47..., Nays...none..

I DO FURTHER CERTIFY that the said ordinance was delivered to the Mayor of the said City of Chicago after the passage thereof by the said City Council, without delay, by the City Clerk of the said City of Chicago, and that the said Mayor did approve and sign the said ordinance on the...fourteenth...(14th) day of...May..., A.D. 19 97

I DO FURTHER CERTIFY that the original, of which the foregoing is a true copy, is entrusted to my care for safe keeping, and that I am the lawful keeper of the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the corporate seal of the City of Chicago aforesaid, at the said City, in the [L. S.] County and State aforesaid, this ...third...(3rd) day of...February..., A.D. 19 98.

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JAMES J. LASKI, City Clerk.

ORIGINAL

Carnow, Conibear & Assoc., Ltd.
Environmental Consulting Services
600 W. Van Buren St., Suite 500, Chicago, IL 60607
t: 312.782.4486 f: 312.782.5145
www.ccaltd.com

May 26, 2020

Mr. Paul Waite, P.E.
Environmental Engineer III
City of Chicago Department of Assets, Information & Services (AIS)
Bureau of Environmental Health and Safety Management
30 North LaSalle, Suite 300
Chicago, Illinois 60602

Re: Limited Asbestos Building Survey
Vacant Fire Engine Company 84
6204 S. Green St., Chicago, IL 60621
Carnow Conibear Project: A164190001-28 (Release #11)

Dear Mr. Waite:

Carnow, Conibear & Assoc., Ltd. (Carnow Conibear) was retained by the City of Chicago Department of Assets, Information & Services (AIS) to perform a limited asbestos-containing material survey prior to future renovation and/or demolition at the Vacant Fire Engine Company 84 building in Chicago, Illinois. The scope of work involved the survey of the interior and exterior components of suspect asbestos-containing materials present within the referenced building. The sampling was limited to suspect asbestos-containing materials that were visible within the Vacant Fire Engine Company 84 building.

The survey was conducted on May 12th & 13th, 2020 by Mr. Anthony Rodriguez (#100-19297). Mr. Rodriguez is an Illinois Department of Public Health (IDPH) licensed asbestos building inspector. **Attachment B** provides the inspector's current license and accreditation.

The asbestos survey was conducted in two phases. The first phase of the survey consisted of a walkthrough inspection to identify homogeneous areas (materials which are uniform in composition throughout) and to assess material condition. The second phase consisted of collecting representative bulk samples from the suspected asbestos-containing materials. All bulk samples were collected and stored in a sample bag with a unique sample identification number. A chain of custody (COC) form was signed and dated by the inspector, the delivering representative, and the laboratory representative who received the samples. All samples were submitted to STAT Analysis Corporation, (STAT) for analysis.

STAT's laboratory is accredited for bulk asbestos fiber analysis by the National Voluntary Laboratory Accreditation Program (NVLAP). Analysis was completed by Polarized Light Microscopy (PLM) at 400x magnification. PLM is the EPA recommended laboratory method for the identification of asbestos in bulk building materials.

Table I presents a summary of the results of the bulk sample analysis and material locations.

Table I
Vacant Fire Engine Company 84 Building: Asbestos Bulk Sample Laboratory Results
May 12, 2020

SAMPLE ID	MATERIAL DESCRIPTION	MATERIAL LOCATION	Estimated Quantity	LABORATORY RESULT (PLM)
AR051220-01 thru 03	**Interior Window Glazing**	**Basement – West End, 2nd Floor – Center Room, S.E. Room, N.E. Room, West Room, Stairwell**	**200 L.F.**	**Chrysotile 5-10%**
AR051220-04 thru 06	**Aircell Pipe Insulation**	**Basement – West End, Boiler Room, Hallway**	**Approx. 160 L.F.**	**Chrysotile 10-15%**
AR051220-07 thru 09	Electrical Wiring Insulation – Black	Basement – West End	N/A	No Asbestos Detected
AR051220-10 thru 12	Electrical Wiring Insulation – White	Basement – West End	N/A	No Asbestos Detected
AR051220-13 thru 15	Pipe Fitting Insulation on Fiberglass Lines	Basement – Boiler Room	N/A	No Asbestos Detected
AR051220-16 thru 18	12x12 Floor Tile – Brown w/Dark Brown & White Streaks	2nd Floor – NE Room	N/A	No Asbestos Detected
AR051220-19 thru 21	Assoc. Mastic w/ 12x12 Floor Tile – Brown w/Dark Brown & White Streaks	2nd Floor – NE Room	N/A	No Asbestos Detected
AR051220-22 thru 24	6” Baseboard – Brown	2nd Floor – Main Hallway, NE Room, Center Room	N/A	No Asbestos Detected
AR051220-25 thru 27	Associated Glue w/6” Baseboard – Brown	2nd Floor – Main Hallway, NE Room, Center Room	N/A	No Asbestos Detected
AR051220-28 thru 36	Plaster – Skim and Rough Coat	Throughout	N/A	No Asbestos Detected
AR051220-37 thru 39	Terrazzo - Gray/Black	2nd Floor – Womens Restroom/Shower, Men’s Restroom/Shower	N/A	No Asbestos Detected
AR051220-40 thru 42	Drywall	2nd Floor - Womens Restroom/Shower 1st Floor – Fireplace Room, Kitchen	N/A	No Asbestos Detected
AR051220-43 thru 45	12x12 Floor Tile – Black & Dark Brown Mottled Specks	2nd Floor – Main Hallway, Stairwell, West end of West Hallway	N/A	No Asbestos Detected
AR051220-46 thru 48	Assoc. Mastic w/12x12 Floor Tile – Black & Dark Brown Mottled Specks	2nd Floor – Main Hallway, Stairwell, West end of West Hallway	N/A	No Asbestos Detected
AR051220-49 thru 51	6”x6” Black Tile	2nd Floor – Main Hallway Closet, SE Room Closet, East End of West Hallway	N/A	No Asbestos Detected
AR051220-52 thru 54	Assoc. Mastic w/6”x6” Black Tile	2nd Floor – Main Hallway Closet, SE Room Closet, East End of West Hallway	N/A	No Asbestos Detected
AR051220-55 thru 57	6”x6” Red Tile	2nd Floor – East End of West Hallway	N/A	No Asbestos Detected
AR051220-58 thru 60	Assoc. Mastic w/6”x6” Red Tile	2nd Floor – East End of West Hallway	N/A	No Asbestos Detected
AR051220-61 thru 63	**12x12 Floor Tile – Black w/Beige Specks**	**2nd Floor – Center Room**	**Approx. 843 S.F.**	**Chrysotile 1-5%**

SAMPLE ID	MATERIAL DESCRIPTION	MATERIAL LOCATION	Estimated Quantity	LABORATORY RESULT (PLM)
AR051220-64 thru 66	**Assoc. Mastic w/12x12 Floor Tile – Black w/Beige Specks**	**2nd Floor – Center Room**	**Approx. 483 S.F.**	**Chrysotile 1-5%**
AR051220-67 thru 69	**12x12 Floor Tile – Red/Brown w/Beige Specks**	**2nd Floor – Center Room**	**Approx. 483 S.F.**	**Chrysotile 1-5%**
AR051220-70 thru 72	Assoc. Mastic w/12x12 Floor Tile – Red/Brown w/Beige Specks	2nd Floor – Center Room	N/A	No Asbestos Detected
AR051220-73 thru 75	12x12 Floor Tile – Grey w/Black Specks	1st Floor – Kitchen, Northwest Room	N/A	No Asbestos Detected
AR051220-76 thru 78	Assoc. Mastic w/ 12x12 Floor Tile – Grey w/Black Specks	1st Floor – Kitchen, Northwest Room	N/A	No Asbestos Detected
AR051220-79 thru 81	Quarry Tile Grout – Dark Grey	1st Floor – Fireplace Room	N/A	No Asbestos Detected
AR051220- 82 thru 84	Terrazzo – Red/White/Black	1st Floor – By Main Entrance, North Garage, South Garage	N/A	No Asbestos Detected
AR051220-85 thru 87	Terrazzo – White & Tan	1st Floor – By Main Entrance, North Garage, South Garage	N/A	No Asbestos Detected
AR051220- 88 thru 90	Terrazzo – Black & White	1st Floor – South Closet and South Bathroom	N/A	No Asbestos Detected
AR051220- 91 thru 93	**Exterior Door Caulk**	**By Main Entrance**	**Approx. 17 L.F.**	**Chrysotile 1-5%**
AR051220-94 thru 96	Assoc. Joint Compound w/Drywall	2nd Floor – Women's Restroom/Shower 1st Floor – Fireplace Room, Kitchen	N/A	No Asbestos Detected
AR051220- 97 thru 99	Black Felt Paper	2nd Floor – West End of West Hallway	N/A	No Asbestos Detected
AR051220-100 thru 102	12"x12" Floor Tile – Beige	1st Floor Kitchen	N/A	No Asbestos Detected
AR051220-103 thru 105	Assoc. Mastic w/12"x12" Floor Tile – Beige	1st Floor Kitchen	N/A	No Asbestos Detected
AR051220-106 thru 108	Filter Paper	First Floor by Stairwell	N/A	No Asbestos Detected
AR051220-109 thru 111	**Window Glazing - Gray**	**1st Floor – South Closet in North Garage, North Garage, South Garage**		**Chrysotile 1-5%**
AR051220-112 thru 114	**Black Tile**	**1st Floor – Northwest Room**	**Approx. 306 S.F.**	**Chrysotile 5-10%**
AR051220-115 thru 117	Mastic Assoc. w/Black Tile	1st Floor – Northwest Room	N/A	No Asbestos Detected
AR051220-118 thru 120	**Pipe Fitting on Brown Insulation**	**Basement Hallway**	**Approx. 2 Fittings**	**Chrysotile 10-15%**
AR051220-121 thru 123	Brown Pipe Insulation	Basement Hallway	N/A	No Asbestos Detected
AR051220-124 thru 126	Gray Pipe Fitting on Fiberglass Lines	Basement – Boiler Room	N/A	No Asbestos Detected
AR051220-127 thru 129	Fiberglass Pipe Fitting	Basement – Boiler Room	N/A	No Asbestos Detected

SAMPLE ID	MATERIAL DESCRIPTION	MATERIAL LOCATION	Estimated Quantity	LABORATORY RESULT (PLM)
AR051220-130 thru 132	Fiberglass Canvas Wrap	Basement – Boiler Room	N/A	No Asbestos Detected
AR051220-133 thru 135	Glue Puck	1st Floor – North Garage South Wall	N/A	No Asbestos Detected

IDPH and EPA define an asbestos-containing material (ACM) as any material containing greater than 1 percent asbestos. Locations are provided for reference only. Materials may exist in other areas not noted.

CONCLUSIONS AND RECOMMENDATIONS

Based on the survey results, Carnow Conibear recommends the following:

- Incorporate data from this report into the asbestos records and future renovation documents.
- Results of this investigation identified asbestos-containing materials were present in the Vacant Fire Engine Company 84.
- All future asbestos removal and/or demolition/renovation work involving ACM shall be conducted by an IDPH licensed contractor in accordance with IDPH, IEPA, and OSHA regulations and requirements.
- If suspect asbestos-containing materials not sampled during the survey are discovered, the materials should be assumed to contain asbestos until proven otherwise by laboratory sample analysis or manufacturer data and added to the asbestos records.
- All information collected from this survey and any abatement conducted as part of the renovation project should be incorporated into the schools AHERA Asbestos Management Plan.
- **Attachment A** provides the laboratory sample results and chain of custody documentation. **Attachment B** contains inspector's license and accreditation and **Attachment C** includes photographic documentation.

Please feel free to call Anthony Rodriguez at (312) 545-5303 if you have any questions or require any additional information.

Sincerely,

CARNOW, CONIBEAR & ASSOC., LTD.

Anthony M. Rodriguez

Anthony Rodriguez
Project Manager

ATTACHMENT A

Laboratory Sample Results and Chain of Custody Documentation

CARNOW CONIBEAR

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

NVLAP Lab Code 101202-0

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Carnow, Conibear, & Associates
600 W. Van Buren Street, Suite 500
Chicago, IL 60607
Phone: (312) 782-4486
Fax: (312) 782-5145

Reference: A164190001-28
Location: 6204 S Green St., Chicago, IL 60621
Batch No.: 347139
Customer No.: 141

Date Received: 05/13/2020
Date Analyzed: 05/14/2020
Date Reported: 05/14/2020
Turn Around Time: 1 Day

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
347139001	AR051220-16	ND	Binder 99-100%
347139002	AR051220-17	ND	Binder 99-100%
347139003	AR051220-18	ND	Binder 99-100%
347139004	AR051220-19	ND	Binder 99-100%
347139005	AR051220-20	ND	Binder 99-100%
347139006	AR051220-21	ND	Binder 99-100%
347139007	AR051220-28	ND	Binder 90-95% Other 5-10%
347139008	AR051220-29	ND	Binder 90-95% Other 5-10%
347139009	AR051220-30	ND	Binder 90-95% Other 5-10%
347139010	AR051220-31	ND	Binder 90-95% Other 5-10%
347139011	AR051220-32	ND	Binder 90-95% Other 5-10%
347139012	AR051220-33	ND	Binder 90-95% Other 5-10%
347139013	AR051220-34	ND	Binder 90-95% Other 5-10%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

The use of the NVLAP logo does not imply endorsement by NVLAP or any agency of the US Government.

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This report remains property of STAT Analysis until payment is received in full (see invoice).

Analyzed by Name :

Henry Robideau / Microscopist

Date: 05/14/2020

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

NVLAP Lab Code 101202-0

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Carnow, Conibear, & Associates
600 W. Van Buren Street, Suite 500
Chicago, IL 60607
Phone: (312) 782-4486
Fax: (312) 782-5145

Reference: A164190001-28
Location: 6204 S Green St., Chicago, IL 60621
Batch No.: 347139
Customer No.: 141

Date Received: 05/13/2020
Date Analyzed: 05/14/2020
Date Reported: 05/14/2020
Turn Around Time: 1 Day

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
347139014	AR051220-35	ND	Binder 90-95% Other 5-10%
347139015	AR051220-36	ND	Binder 90-95% Other 5-10%
347139016	AR051220-43	ND	Binder 99-100%
347139017	AR051220-44	ND	Binder 99-100%
347139018	AR051220-45	ND	Binder 99-100%
347139019	AR051220-46	ND	Binder 99-100%
347139020	AR051220-47	ND	Binder 99-100%
347139021	AR051220-48	ND	Binder 99-100%
347139022	AR051220-49	ND	Binder 99-100%
347139023	AR051220-50	ND	Binder 99-100%
347139024	AR051220-51	ND	Binder 99-100%
347139025	AR051220-52	ND	Binder 99-100%
347139026	AR051220-53	ND	Binder 99-100%
347139027	AR051220-54	ND	Binder 99-100%
347139028	AR051220-55	ND	Binder 99-100%
347139029	AR051220-56	ND	Binder 99-100%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

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The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone.This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This report remains property of STAT Analysis until payment is received in full (see invoice).

Analyzed by Name: Henry Robateau / Microscopist Date: 05/14/2020

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

NVLAP Lab Code 101202-0

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Carnow, Conibear, & Associates
600 W. Van Buren Street, Suite 500
Chicago, IL 60607
Phone: (312) 782-4486
Fax: (312) 782-5145

Reference: A164190001-28
Location: 6204 S Green St., Chicago, IL 60621
Batch No.: 347139
Customer No.: 141

Date Received: 05/13/2020
Date Analyzed: 05/14/2020
Date Reported: 05/14/2020
Turn Around Time: 1 Day

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
347139030	AR051220-57	ND	Binder 99-100%
347139031	AR051220-58	ND	Binder 99-100%
347139032	AR051220-59	ND	Binder 99-100%
347139033	AR051220-60	ND	Binder 99-100%
347139034	AR051220-73	ND	Binder 99-100%
347139035	AR051220-74	ND	Binder 99-100%
347139036	AR051220-75	ND	Binder 99-100%
347139037	AR051220-76	ND	Binder 99-100%
347139038	AR051220-77	ND	Binder 99-100%
347139039	AR051220-78	ND	Binder 99-100%
347139040	AR051220-97	ND	Cellulose 80-85% Binder 15-20%
347139041	AR051220-98	ND	Cellulose 80-85% Binder 15-20%
347139042	AR051220-99	ND	Cellulose 80-85% Binder 15-20%
347139043	AR051220-100	ND	Binder 99-100%
347139044	AR051220-101	ND	Binder 99-100%
347139045	AR051220-102	ND	Binder 99-100%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

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Analyzed by Name: Henry Robateau / Microscopist Date: 05/14/2020

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2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

NVLAP Lab Code 101202-0

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Carnow, Conibear, & Associates
600 W. Van Buren Street, Suite 500
Chicago, IL 60607
Phone: (312) 782-4486
Fax: (312) 782-5145

Reference: A164190001-28
Location: 6204 S Green St., Chicago, IL 60621
Batch No.: 347139
Customer No.: 141

Date Received: 05/13/2020
Date Analyzed: 05/14/2020
Date Reported: 05/14/2020
Turn Around Time: 1 Day

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
347139046	AR051220-103	ND	Binder 99-100%
347139047	AR051220-104	ND	Binder 99-100%
347139048	AR051220-105	ND	Binder 99-100%
347139049	AR051220-106	ND	Binder 99-100%
347139050	AR051220-107	ND	Binder 99-100%
347139051	AR051220-108	ND	Binder 99-100%
347139052	AR051220-112	Chrysotile 5-10%	Binder 90-95%
347139053	AR051220-113	Chrysotile 5-10%	Binder 90-95%
347139054	AR051220-114	Chrysotile 5-10%	Binder 90-95%
347139055	AR051220-115	ND	Binder 99-100%
347139056	AR051220-116	ND	Binder 99-100%
347139057	AR051220-117	ND	Binder 99-100%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

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Analyzed by Name : Henry Robideau / Microscopist Date: 05/14/2020

Analyze highlighted samples for 4 hr. TAT

All other samples 5 day TAT

347139

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Environmental Consulting Services
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CARNOW CONIBEAR

CHAIN OF CUSTODY RECORD-PLM ASBESTOS

Project No: A164190001-28
Client: City of Chicago, AIS
Date: 5/12/20
Turn Around: Samples # 4 hr. / 5 day - non-highlighted

Project Name: Vacant EC 84
Project Location: 6204 S. Green St. Chicago, IL 60621
Collected By: Anthony Rodriguez

Sample ID/Number:	PLM % Asb.	Sample Description/Location
AR051220-01		Interior Window Glazing | Basement – West End
AR051220-02		Interior Window Glazing | 1st Floor – Fireplace Room
AR051220-03		Interior Window Glazing | 2nd Floor – Center Room
AR051220-04		Aircell Pipe Insulation | Basement – West End
AR051220-05		Aircell Pipe Insulation | Basement – West End
AR051220-06		Aircell Pipe Insulation | 2nd Floor – Mens Restroom/Shower
AR051220-07		Electrical Wiring Insulation – Black | Basement – West End
AR051220-08		Electrical Wiring Insulation – Black | Basement – West End
AR051220-09		Electrical Wiring Insulation – Black | Basement – West End
AR051220-10		Electrical Wiring Insulation – White | Basement – West End
AR051220-11		Electrical Wiring Insulation – White | Basement – West End
AR051220-12		Electrical Wiring Insulation – White | Basement – West End
AR051220-13		Pipe Fitting Insulation on Fiberglass Lines | Basement – Boiler Room
AR051220-14		Pipe Fitting Insulation on Fiberglass Lines | Basement – Boiler Room
AR051220-15		Pipe Fitting Insulation on Fiberglass Lines | Basement – Boiler Room
AR051220-16		12x12 Floor Tile – Brown w/Dark Brown & White Streaks | 2nd Floor – NE Room
AR051220-17		12x12 Floor Tile – Brown w/Dark Brown & White Streaks | 2nd Floor – SE Room
AR051220-18		12x12 Floor Tile – Brown w/Dark Brown & White Streaks | 2nd Floor – NE Room
AR051220-19		Assoc. Mastic w/ 12x12 Floor Tile – Brown w/Dark Brown & White Streaks | 2nd Floor – NE Room
AR051220-20		Assoc. Mastic w/ 12x12 Floor Tile – Brown w/Dark Brown & White Streaks | 2nd Floor – SE Room
AR051220-21		Assoc. Mastic w/ 12x12 Floor Tile – Brown w/Dark Brown & White Streaks | 2nd Floor – NE Room

Comments: Please email results to arodriguez@ccaltd.com

Relinquished By: Anthony Rodriguez — Date/Time 5/13/20
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Relinquished By: _____ — Date/Time _____
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CARNOW CONIBEAR

CHAIN OF CUSTODY RECORD-PLM ASBESTOS

Project No: A164190001-28
Client: City of Chicago, AIS
Date: 5/12/20
Turn Around:

Project Name: Vacant EC 84
Project Location: 6204 S. Green St. Chicago, IL 60621
Collected By: Anthony Rodriguez

Sample ID/Number:	PLM % Asb.	Sample Description/Location
AR051220-22		6" Baseboard – Brown | 2nd Floor – Main Hallway
AR051220-23		6" Baseboard – Brown | 2nd Floor – NE Room
AR051220-24		6" Baseboard – Brown | 2nd Floor – Center Room
AR051220-25		Associated Glue w/6" Baseboard – Brown | 2nd Floor – Main Hallway
AR051220-26		Associated Glue w/6" Baseboard – Brown | 2nd Floor – NE Room
AR051220-27		Associated Glue w/6" Baseboard – Brown | 2nd Floor – Center Room
AR051220-28		Plaster – Skim and Rough Coat | 2nd Floor – NE Room
AR051220-29		Plaster – Skim and Rough Coat | 2nd Floor – Center Room
AR051220-30		Plaster – Skim and Rough Coat | 2nd Floor – Main Hallway
AR051220-31		Plaster – Skim and Rough Coat | 2nd Floor – SE Room
AR051220-32		Plaster – Skim and Rough Coat | 2nd Floor – West Room
AR051220-33		Plaster – Skim and Rough Coat | 1st Floor – NW Room
AR051220-34		Plaster – Skim and Rough Coat | 1st Floor – Kitchen
AR051220-35		Plaster – Skim and Rough Coat | 1st Floor – Stairwell
AR051220-36		Plaster – Skim and Rough Coat | 2nd Floor - Stairwell
AR051220-37		Terrazzo -Gray/Black | 2nd Floor – Womens Restroom/Shower
AR051220-38		Terrazzo -Gray/Black | 2nd Floor – Womens Restroom/Shower
AR051220-39		Terrazzo -Gray/Black | 2nd Floor – Mens Restroom/Shower
AR051220-40		Drywall | 2nd Floor – Womens Restroom/Shower
AR051220-41		Drywall | 1st Floor – Fireplace Room
AR051220-42		Drywall | 1st Floor - Kitchen

Comments: Please email results to arodriguez@ccaltd.com

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CHAIN OF CUSTODY RECORD-PLM ASBESTOS

Project No: A164190001-28
Client: City of Chicago, AIS
Date: 5/12/20
Turn Around:

Project Name: Vacant EC 84
Project Location: 6204 S. Green St.
Chicago, IL 60621
Collected By: Anthony Rodriguez

Sample ID/Number:	PLM % Asb.	Sample Description/Location
AR051220-43		12x12 Floor Tile – Black & Dark Brown Mottled Specks | 2nd Floor – Main Hallway
AR051220-44		12x12 Floor Tile – Black & Dark Brown Mottled Specks | 2nd Floor – Stairwell
AR051220-45		12x12 Floor Tile – Black & Dark Brown Mottled Specks | 2nd Floor – West End of W. Hallway
AR051220-46		Assoc. Mastic w/12x12 Floor Tile – Black & Dark Brown Mottled Specks | 2nd Floor – Main Hallway
AR051220-47		Assoc. Mastic w/12x12 Floor Tile – Black & Dark Brown Mottled Specks | 2nd Floor – Stairwell
AR051220-48		Assoc. Mastic w/12x12 Floor Tile – Black & Dark Brown Mottled Specks | 2nd Floor – West End of W. Hallway
AR051220-49		6"x6" Black Tile - | 2nd Floor – Main Hallway Closet
AR051220-50		6"x6" Black Tile - | 2nd Floor – SE Room Closet
AR051220-51		6"x6" Black Tile - | 2nd Floor – E. End of W. Hallway
AR051220-52		Assoc. Mastic w/6"x6" Black Tile - | 2nd Floor – Main Hallway Closet
AR051220-53		Assoc. Mastic w/6"x6" Black Tile - | 2nd Floor – SE Room Closet
AR051220-54		Assoc. Mastic w/6"x6" Black Tile - | 2nd Floor – E. End of W. Hallway
AR051220-55		6"x6" Red Tile - | 2nd Floor – E. End of W. Hallway
AR051220-56		6"x6" Red Tile - | 2nd Floor – E. End of W. Hallway
AR051220-57		6"x6" Red Tile - | 2nd Floor – E. End of W. Hallway
AR051220-58		Assoc. Mastic w/6"x6" Red Tile - | 2nd Floor – E. End of W. Hallway
AR051220-59		Assoc. Mastic w/6"x6" Red Tile - | 2nd Floor – E. End of W. Hallway
AR051220-60		Assoc. Mastic w/6"x6" Red Tile - | 2nd Floor – E. End of W. Hallway
AR051220-61		12x12 Floor Tile – Black w/Beige Specks | 2nd Floor – Center Room
AR051220-62		12x12 Floor Tile – Black w/Beige Specks | 2nd Floor – Center Room
AR051220-63		12x12 Floor Tile – Black w/Beige Specks | 2nd Floor – Center Room

Comments: Please email results to arodriguez@ccaltd.com

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CARNOW CONIBEAR

CHAIN OF CUSTODY RECORD-PLM ASBESTOS

Project No: A164190001-18
Client: City of Chicago AIS
Date: 5/12/20
Turn Around:

Project Name: **Vacant EC 84**
Project Location: **6204 S. Green St. Chicago, IL 60621**
Collected By: **Anthony Rodriguez**

Sample ID/Number:	PLM % Asb.	Sample Description/Location
AR051220-64		Assoc. Mastic w/12x12 Floor Tile – Black w/Beige Specks | 2nd Floor – Center Room
AR051220-65		Assoc. Mastic w/12x12 Floor Tile – Black w/Beige Specks | 2nd Floor – Center Room
AR051220-66		Assoc. Mastic w/12x12 Floor Tile – Black w/Beige Specks | 2nd Floor – Center Room
AR051220-67		12x12 Floor Tile – Red/Brown w/Beige Specks | 2nd Floor – Center Room
AR051220-68		12x12 Floor Tile – Red/Brown w/Beige Specks | 2nd Floor – Center Room
AR051220-69		12x12 Floor Tile – Red/Brown w/Beige Specks | 2nd Floor – Center Room
AR051220-70		Assoc. Mastic w/12x12 Floor Tile – Red/Brown w/Beige Specks | 2nd Floor – Center Room
AR051220-71		Assoc. Mastic w/12x12 Floor Tile – Red/Brown w/Beige Specks | 2nd Floor – Center Room
AR051220-72		Assoc. Mastic w/12x12 Floor Tile – Red/Brown w/Beige Specks | 2nd Floor – Center Room
AR051220-73		12x12 Floor Tile – Grey w/Black Specks | 1st Floor – Kitchen
AR051220-74		12x12 Floor Tile – Grey w/Black Specks | 1st Floor – NW Room
AR051220-75		12x12 Floor Tile – Grey w/Black Specks | 1st Floor – NW Room
AR051220-76		Assoc. Mastic w/ 12x12 Floor Tile – Grey w/Black Specks | 1st Floor – Kitchen
AR051220-77		Assoc. Mastic w/ 12x12 Floor Tile – Grey w/Black Specks | 1st Floor – NW Room
AR051220-78		Assoc. Mastic w/ 12x12 Floor Tile – Grey w/Black Specks | 1st Floor – NW Room
AR051220-79		Quarry Tile Grout – Dark Grey | 1st Floor – Fireplace Room
AR051220-80		Quarry Tile Grout – Dark Grey | 1st Floor – Fireplace Room
AR051220-81		Quarry Tile Grout – Dark Grey | 1st Floor – Fireplace Room
AR051220-82		Terrazzo – Red/White/Black | 1st Floor – By Main Entrance
AR051220-83		Terrazzo – Red/White/Black | 1st Floor – N. Garage
AR051220-84		Terrazzo – Red/White/Black | 1st Floor – S. Garage

Comments: Please email results to arodriguez@ccaltd.com

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CARNOW CONIBEAR

CHAIN OF CUSTODY RECORD-PLM ASBESTOS

Project No: A164190001-28
Client: City of Chicago, AIS
Date: 5/12/20
Turn Around:

Project Name: Vacant EC 84
Project Location: 6204 S. Green St. Chicago, IL 60621
Collected By: Anthony Rodriguez

Sample ID/Number:	PLM % Asb.	Sample Description/Location
AR051220-85		Terrazzo – White & Tan | 1st Floor – N. Garage
AR051220-86		Terrazzo – White & Tan | 1st Floor – S. Garage
AR051220-87		Terrazzo – White & Tan | 1st Floor – By Main Entrance
AR051220-88		Terrazzo – Black & White | 1st Floor – S. Closet
AR051220-89		Terrazzo – Black & White | 1st Floor – S. Closet
AR051220-90		Terrazzo – Black & White | 1st Floor – S. Bathroom
AR051220-91		Exterior Door Caulk | By Main Entrance
AR051220-92		Exterior Door Caulk | By Main Entrance
AR051220-93		Exterior Door Caulk | By Main Entrance
AR051220-94		Assoc. Joint Compound w/Drywall | 2nd Floor – Womens Restrom/Shower
AR051220-95		Assoc. Joint Compound w/Drywall | 1st Floor – Fireplace Room
AR051220-96		Assoc. Joint Compound w/Drywall | 1st Floor – Kitchen
AR051220-97		Black Felt Paper | 2nd Floor – West End of W. Hallway
AR051220-98		Black Felt Paper | 2nd Floor – West End of W. Hallway
AR051220-99		Black Felt Paper | 2nd Floor – West End of W. Hallway
AR051220-100		12"x12" Floor Tile – Beige | 1st Floor Kitchen
AR051220-101		12"x12" Floor Tile – Beige | 1st Floor Kitchen
AR051220-102		12"x12" Floor Tile – Beige | 1st Floor Kitchen
AR051220-103		Assoc. Mastic w/12"x12" Floor Tile – Beige | 1st Floor Kitchen
AR051220-104		Assoc. Mastic w/12"x12" Floor Tile – Beige | 1st Floor Kitchen
AR051220-105		Assoc. Mastic w/12"x12" Floor Tile – Beige | 1st Floor Kitchen

Comments: Please email results to arodriguez@ccaltd.com

Relinquished By: [signature] Date/Time 5/13/20
Received By: [signature] Date/Time 5/13/2020 4:35
Relinquished By: Date/Time
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CHAIN OF CUSTODY RECORD-PLM ASBESTOS

Project No: A164190001-28
Client: City of Chicago, AIS
Date: 5/12/20
Turn Around:

Project Name: Vacant EC 84
Project Location: 6204 S. Green St. Chicago, IL 60621
Collected By: Anthony Rodriguez

Sample ID/Number:	PLM % Asb.	Sample Description/Location
AR051220-106		Filter Paper | 1st Floor by Stairwell
AR051220-107		Filter Paper | 1st Floor by Stairwell
AR051220-108		Filter Paper | 1st Floor by Stairwell
AR051220-109		Window Glazing – Gray | 1st Floor South Closet in North Garage
AR051220-110		Window Glazing – Gray | 1st Floor North Garage
AR051220-111		Window Glazing – Gray | 1st Floor South Garage
AR051220-112		Black Tile | 1st Floor - Northwest Room
AR051220-113		Black Tile | 1st Floor - Northwest Room
AR051220-114		Black Tile | 1st Floor - Northwest Room
AR051220-115		Mastic Associated w/ Black Tile | 1st Floor - Northwest Room
AR051220-116		Mastic Associated w/ Black Tile | 1st Floor - Northwest Room
AR051220-117		Mastic Associated w/ Black Tile | 1st Floor - Northwest Room
AR051220-118		Pipe Fitting on Brown Insulation | Basement Hallway
AR051220-119		Pipe Fitting on Brown Insulation | Basement Hallway
AR051220-120		Pipe Fitting on Brown Insulation | Basement Hallway
AR051220-121		Brown Pipe Insulation | Basement Hallway
AR051220-122		Brown Pipe Insulation | Basement Hallway
AR051220-123		Brown Pipe Insulation | Basement Hallway
AR051220-124		Gray Pipe Fitting on Fiberglass Lines | Basement - Boiler Room
AR051220-125		Gray Pipe Fitting on Fiberglass Lines | Basement - Boiler Room
AR051220-126		Gray Pipe Fitting on Fiberglass Lines | Basement - Boiler Room

Comments: Please email results to arodriguez@ccaltd.com

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CHAIN OF CUSTODY RECORD-PLM ASBESTOS

Project No: A164190001-28
Client: City of Chicago, AIS
Date: 5/12/20
Turn Around:

Project Name: Vacant EC 84
Project Location: 6204 S. Green St.
Chicago, IL 60621
Collected By: Anthony Rodriguez

Sample ID/Number:	PLM % Asb.	Sample Description/Location
AR051220-127		Fiberglass Pipe Fitting | Basement - Boiler Room
AR051220-128		Fiberglass Pipe Fitting | Basement - Boiler Room
AR051220-129		Fiberglass Pipe Fitting | Basement - Boiler Room
AR051220-130		Fiberglass Canvas Wrap | Basement - Boiler Room
AR051220-131		Fiberglass Canvas Wrap | Basement - Boiler Room
AR051220-132		Fiberglass Canvas Wrap | Basement - Boiler Room
AR051220-133		Glue Puck – Beige | 1st Floor North Garage – South Wall
AR051220-134		Glue Puck – Beige | 1st Floor North Garage – South Wall
AR051220-135		Glue Puck – Beige | 1st Floor North Garage – South Wall

Comments: Please email results to arodriguez@ccaltd.com

Relinquished By: Anthony Rodriguez Date/Time 5/13/20
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NVLAP Lab Code 101202-0

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Carnow, Conibear, & Associates
600 W. Van Buren Street, Suite 500
Chicago, IL 60607
Phone: (312) 782-4486
Fax: (312) 782-5145

Reference: A164190001-28
Location: 6204 S Green St., Chicago, IL 60621
Batch No.: 347140
Customer No.: 141

Date Received: 05/13/2020
Date Analyzed: 05/18/2020
Date Reported: 05/18/2020
Turn Around Time: 5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
347140001	AR051220-01	Chrysotile 1-5%	Binder 95-99%
347140002	AR051220-02	Chrysotile 1-5%	Binder 95-99%
347140003	AR051220-03	Chrysotile 1-5%	Binder 95-99%
347140004	AR051220-04	Chrysotile 10-15%	Binder 85-90%
347140005	AR051220-05	Chrysotile 10-15%	Binder 85-90%
347140006	AR051220-06	Chrysotile 10-15%	Binder 85-90%
347140007	AR051220-07	ND	Binder 99-100%
347140008	AR051220-08	ND	Binder 99-100%
347140009	AR051220-09	ND	Binder 99-100%
347140010	AR051220-10	ND	Binder 99-100%
347140011	AR051220-11	ND	Binder 99-100%
347140012	AR051220-12	ND	Binder 99-100%
347140013	AR051220-13	ND	Binder 80-85% Glass 15-20%
347140014	AR051220-14	ND	Binder 80-85% Glass 15-20%
347140015	AR051220-15	ND	Binder 80-85% Glass 15-20%
347140016	AR051220-22	ND	Binder 99-100%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

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Analyzed by Name :

Henry Robateau / Microscopist

Date: 05/18/2020

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NVLAP Lab Code 101202-0

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Method: EPA/600/R-93/116

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Phone: (312) 782-4486
Fax: (312) 782-5145

Reference:	A164190001-28	Date Received:	05/13/2020
Location:	6204 S Green St., Chicago, IL 60621	Date Analyzed:	05/18/2020
Batch No.:	347140	Date Reported:	05/18/2020
Customer No.:	141	Turn Around Time:	5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
347140017	AR051220-23	ND	Binder 99-100%
347140018	AR051220-24	ND	Binder 99-100%
347140019	AR051220-25	ND	Binder 99-100%
347140020	AR051220-26	ND	Binder 99-100%
347140021	AR051220-27	ND	Binder 99-100%
347140022	AR051220-37	ND	Binder 90-95% Other 5-10%
347140023	AR051220-38	ND	Binder 90-95% Other 5-10%
347140024	AR051220-39	ND	Binder 90-95% Other 5-10%
347140025	AR051220-40	ND	Cellulose 5-10% Binder 90-95%
347140026	AR051220-41	ND	Cellulose 5-10% Binder 90-95%
347140027	AR051220-42	ND	Cellulose 5-10% Binder 90-95%
347140028	AR051220-61	Chrysotile 1-5%	Binder 95-99%
347140029	AR051220-62	Chrysotile 1-5%	Binder 95-99%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

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Analyzed by Name : Henry Robateau / Microscopist

Date: 05/18/2020

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

NVLAP Lab Code 101202-0

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Carnow, Conibear, & Associates
600 W. Van Buren Street, Suite 500
Chicago, IL 60607
Phone: (312) 782-4486
Fax: (312) 782-5145

Reference:	A164190001-28	Date Received:	05/13/2020
Location:	6204 S Green St., Chicago, IL 60621	Date Analyzed:	05/18/2020
Batch No.:	347140	Date Reported:	05/18/2020
Customer No.:	141	Turn Around Time:	5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
347140030	AR051220-63	Chrysotile 1-5%	Binder 95-99%
347140031	AR051220-64	Chrysotile 1-5%	Binder 95-99%
347140032	AR051220-65	Chrysotile 1-5%	Binder 95-99%
347140033	AR051220-66	Chrysotile 1-5%	Binder 95-99%
347140034	AR051220-67	Chrysotile 1-5%	Binder 95-99%
347140035	AR051220-68	Chrysotile 1-5%	Binder 95-99%
347140036	AR051220-69	Chrysotile 1-5%	Binder 95-99%
347140037	AR051220-70	ND	Binder 99-100%
347140038	AR051220-71	ND	Binder 99-100%
347140039	AR051220-72	ND	Binder 99-100%
347140040	AR051220-79	ND	Binder 90-95% Other 5-10%
347140041	AR051220-80	ND	Binder 90-95% Other 5-10%
347140042	AR051220-81	ND	Binder 90-95% Other 5-10%
347140043	AR051220-82	ND	Binder 90-95% Other 5-10%

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Reference:	A164190001-28	Date Received:	05/13/2020
Location:	6204 S Green St., Chicago, IL 60621	Date Analyzed:	05/18/2020
Batch No.:	347140	Date Reported:	05/18/2020
Customer No.:	141	Turn Around Time:	5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
347140044	AR051220-83	ND	Binder 90-95% Other 5-10%
347140045	AR051220-84	ND	Binder 90-95% Other 5-10%
347140046	AR051220-85	ND	Binder 90-95% Other 5-10%
347140047	AR051220-86	ND	Binder 90-95% Other 5-10%
347140048	AR051220-87	ND	Binder 90-95% Other 5-10%
347140049	AR051220-88	ND	Binder 90-95% Other 5-10%
347140050	AR051220-89	ND	Binder 90-95% Other 5-10%
347140051	AR051220-90	ND	Binder 90-95% Other 5-10%
347140052	AR051220-91	Chrysotile 1-5%	Binder 95-99%
347140053	AR051220-92	Chrysotile 1-5%	Binder 95-99%
347140054	AR051220-93	Chrysotile 1-5%	Binder 95-99%
347140055	AR051220-94	ND	Binder 99-100%

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Reference:	A164190001-28	Date Received:	05/13/2020
Location:	6204 S Green St., Chicago, IL 60621	Date Analyzed:	05/18/2020
Batch No.:	347140	Date Reported:	05/18/2020
Customer No.:	141	Turn Around Time:	5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
347140056	AR051220-95	ND	Binder 99-100%
347140057	AR051220-96	ND	Binder 99-100%
347140058	AR051220-109	Chrysotile 1-5%	Binder 95-99%
347140059	AR051220-110	Chrysotile 1-5%	Binder 95-99%
347140060	AR051220-111	Chrysotile 1-5%	Binder 95-99%
347140061	AR051220-118	Chrysotile 10-15%	Binder 85-90%
347140062	AR051220-119	Chrysotile 10-15%	Binder 85-90%
347140063	AR051220-120	Chrysotile 10-15%	Binder 85-90%
347140064	AR051220-121	ND	Cellulose 99-100%
347140065	AR051220-122	ND	Cellulose 99-100%
347140066	AR051220-123	ND	Cellulose 99-100%
347140067	AR051220-124	ND	Binder 80-85% Glass 15-20%
347140068	AR051220-125	ND	Binder 80-85% Glass 15-20%
347140069	AR051220-126	ND	Binder 80-85% Glass 15-20%
347140070	AR051220-127	ND	Binder 99-100%
347140071	AR051220-128	ND	Binder 99-100%

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Reference: A164190001-28
Location: 6204 S Green St., Chicago, IL 60621
Batch No.: 347140
Customer No.: 141

Date Received: 05/13/2020
Date Analyzed: 05/18/2020
Date Reported: 05/18/2020
Turn Around Time: 5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
347140072	AR051220-129	ND	Binder 99-100%
347140073	AR051220-130	ND	Binder 99-100%
347140074	AR051220-131	ND	Binder 99-100%
347140075	AR051220-132	ND	Binder 99-100%
347140076	AR051220-133	ND	Binder 99-100%
347140077	AR051220-134	ND	Binder 99-100%
347140078	AR051220-135	ND	Binder 99-100%

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Analyzed by Name: Henry Robatepa / Microscopist

Date: 05/18/2020

Analyze highlighted Samples for 4 hr. TAT

All other Samples 5 day TAT

347140

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CHAIN OF CUSTODY RECORD-PLM ASBESTOS

Project No: A164190001-28
Client: City of Chicago, AIS
Date: 5/12/20
Turn Around: Samples 4 hr. / 5 day - non-highlighted

Project Name: Vacant EC 84
Project Location: 6204 S. Green St. Chicago, IL 60621
Collected By: Anthony Rodriguez

Sample ID/Number:	PLM % Asb.	Sample Description/Location
AR051220-01		Interior Window Glazing | Basement – West End
AR051220-02		Interior Window Glazing | 1st Floor – Fireplace Room
AR051220-03		Interior Window Glazing | 2nd Floor – Center Room
AR051220-04		Aircell Pipe Insulation | Basement – West End
AR051220-05		Aircell Pipe Insulation | Basement – West End
AR051220-06		Aircell Pipe Insulation | 2nd Floor – Mens Restroom/Shower
AR051220-07		Electrical Wiring Insulation – Black | Basement – West End
AR051220-08		Electrical Wiring Insulation – Black | Basement – West End
AR051220-09		Electrical Wiring Insulation – Black | Basement – West End
AR051220-10		Electrical Wiring Insulation – White | Basement – West End
AR051220-11		Electrical Wiring Insulation – White | Basement – West End
AR051220-12		Electrical Wiring Insulation – White | Basement – West End
AR051220-13		Pipe Fitting Insulation on Fiberglass Lines | Basement – Boiler Room
AR051220-14		Pipe Fitting Insulation on Fiberglass Lines | Basement – Boiler Room
AR051220-15		Pipe Fitting Insulation on Fiberglass Lines | Basement – Boiler Room
AR051220-16		12x12 Floor Tile – Brown w/Dark Brown & White Streaks | 2nd Floor – NE Room
AR051220-17		12x12 Floor Tile – Brown w/Dark Brown & White Streaks | 2nd Floor – SE Room
AR051220-18		12x12 Floor Tile – Brown w/Dark Brown & White Streaks | 2nd Floor – NE Room
AR051220-19		Assoc. Mastic w/ 12x12 Floor Tile – Brown w/Dark Brown & White Streaks | 2nd Floor – NE Room
AR051220-20		Assoc. Mastic w/ 12x12 Floor Tile – Brown w/Dark Brown & White Streaks | 2nd Floor – SE Room
AR051220-21		Assoc. Mastic w/ 12x12 Floor Tile – Brown w/Dark Brown & White Streaks | 2nd Floor – NE Room

Comments: Please email results to arodriguez@ccaltd.com

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CHAIN OF CUSTODY RECORD-PLM ASBESTOS

Project No: A164190001-28
Client: City of Chicago, AIS
Date: 5/12/20
Turn Around:

Project Name: Vacant EC 84
Project Location: 6204 S. Green St. Chicago, IL 60621
Collected By: Anthony Rodriguez

Sample ID/Number:	PLM % Asb.	Sample Description/Location
AR051220-22		6" Baseboard – Brown | 2nd Floor – Main Hallway
AR051220-23		6" Baseboard – Brown | 2nd Floor – NE Room
AR051220-24		6" Baseboard – Brown | 2nd Floor – Center Room
AR051220-25		Associated Glue w/6" Baseboard – Brown | 2nd Floor – Main Hallway
AR051220-26		Associated Glue w/6" Baseboard – Brown | 2nd Floor – NE Room
AR051220-27		Associated Glue w/6" Baseboard – Brown | 2nd Floor – Center Room
AR051220-28		Plaster – Skim and Rough Coat | 2nd Floor – NE Room
AR051220-29		Plaster – Skim and Rough Coat | 2nd Floor – Center Room
AR051220-30		Plaster – Skim and Rough Coat | 2nd Floor – Main Hallway
AR051220-31		Plaster – Skim and Rough Coat | 2nd Floor – SE Room
AR051220-32		Plaster – Skim and Rough Coat | 2nd Floor – West Room
AR051220-33		Plaster – Skim and Rough Coat | 1st Floor – NW Room
AR051220-34		Plaster – Skim and Rough Coat | 1st Floor – Kitchen
AR051220-35		Plaster – Skim and Rough Coat | 1st Floor – Stairwell
AR051220-36		Plaster – Skim and Rough Coat | 2nd Floor - Stairwell
AR051220-37		Terrazzo -Gray/Black | 2nd Floor – Womens Restroom/Shower
AR051220-38		Terrazzo -Gray/Black | 2nd Floor – Womens Restroom/Shower
AR051220-39		Terrazzo -Gray/Black | 2nd Floor – Mens Restroom/Shower
AR051220-40		Drywall | 2nd Floor – Womens Restroom/Shower
AR051220-41		Drywall | 1st Floor – Fireplace Room
AR051220-42		Drywall | 1st Floor - Kitchen

Comments: Please email results to arodriguez@ccaltd.com

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CHAIN OF CUSTODY RECORD-PLM ASBESTOS

Project No: A164190001-28
Client: City of Chicago, AIS
Date: 5/12/20
Turn Around:

Project Name: Vacant EC 84
Project Location: 6204 S. Green St. Chicago, IL 60621
Collected By: Anthony Rodriguez

Sample ID/Number:	PLM % Asb.	Sample Description/Location
AR051220-43		12x12 Floor Tile – Black & Dark Brown Mottled Specks | 2nd Floor – Main Hallway
AR051220-44		12x12 Floor Tile – Black & Dark Brown Mottled Specks | 2nd Floor – Stairwell
AR051220-45		12x12 Floor Tile – Black & Dark Brown Mottled Specks | 2nd Floor – West End of W. Hallway
AR051220-46		Assoc. Mastic w/12x12 Floor Tile – Black & Dark Brown Mottled Specks | 2nd Floor – Main Hallway
AR051220-47		Assoc. Mastic w/12x12 Floor Tile – Black & Dark Brown Mottled Specks | 2nd Floor – Stairwell
AR051220-48		Assoc. Mastic w/12x12 Floor Tile – Black & Dark Brown Mottled Specks | 2nd Floor – West End of W. Hallway
AR051220-49		6"x6" Black Tile - | 2nd Floor – Main Hallway Closet
AR051220-50		6"x6" Black Tile - | 2nd Floor – SE Room Closet
AR051220-51		6"x6" Black Tile - | 2nd Floor – E. End of W. Hallway
AR051220-52		Assoc. Mastic w/6"x6" Black Tile - | 2nd Floor – Main Hallway Closet
AR051220-53		Assoc. Mastic w/6"x6" Black Tile - | 2nd Floor – SE Room Closet
AR051220-54		Assoc. Mastic w/6"x6" Black Tile - | 2nd Floor – E. End of W. Hallway
AR051220-55		6"x6" Red Tile - | 2nd Floor – E. End of W. Hallway
AR051220-56		6"x6" Red Tile - | 2nd Floor – E. End of W. Hallway
AR051220-57		6"x6" Red Tile - | 2nd Floor – E. End of W. Hallway
AR051220-58		Assoc. Mastic w/6"x6" Red Tile - | 2nd Floor – E. End of W. Hallway
AR051220-59		Assoc. Mastic w/6"x6" Red Tile - | 2nd Floor – E. End of W. Hallway
AR051220-60		Assoc. Mastic w/6"x6" Red Tile - | 2nd Floor – E. End of W. Hallway
AR051220-61		12x12 Floor Tile – Black w/Beige Specks | 2nd Floor – Center Room
AR051220-62		12x12 Floor Tile – Black w/Beige Specks | 2nd Floor – Center Room
AR051220-63		12x12 Floor Tile – Black w/Beige Specks | 2nd Floor – Center Room

Comments: Please email results to arodriguez@ccaltd.com

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CHAIN OF CUSTODY RECORD-PLM ASBESTOS

Project No: A164190001-28
Client: City of Chicago AIS
Date: 5/12/20
Turn Around:

Project Name: Vacant EC 84
Project Location: 6204 S. Green St. Chicago, IL 60621
Collected By: Anthony Rodriguez

Sample ID/Number:	PLM % Asb.	Sample Description/Location
AR051220-64		Assoc. Mastic w/12x12 Floor Tile – Black w/Beige Specks | 2nd Floor – Center Room
AR051220-65		Assoc. Mastic w/12x12 Floor Tile – Black w/Beige Specks | 2nd Floor – Center Room
AR051220-66		Assoc. Mastic w/12x12 Floor Tile – Black w/Beige Specks | 2nd Floor – Center Room
AR051220-67		12x12 Floor Tile – Red/Brown w/Beige Specks | 2nd Floor – Center Room
AR051220-68		12x12 Floor Tile – Red/Brown w/Beige Specks | 2nd Floor – Center Room
AR051220-69		12x12 Floor Tile – Red/Brown w/Beige Specks | 2nd Floor – Center Room
AR051220-70		Assoc. Mastic w/12x12 Floor Tile – Red/Brown w/Beige Specks | 2nd Floor – Center Room
AR051220-71		Assoc. Mastic w/12x12 Floor Tile – Red/Brown w/Beige Specks | 2nd Floor – Center Room
AR051220-72		Assoc. Mastic w/12x12 Floor Tile – Red/Brown w/Beige Specks | 2nd Floor – Center Room
AR051220-73		12x12 Floor Tile – Grey w/Black Specks | 1st Floor – Kitchen
AR051220-74		12x12 Floor Tile – Grey w/Black Specks | 1st Floor – NW Room
AR051220-75		12x12 Floor Tile – Grey w/Black Specks | 1st Floor – NW Room
AR051220-76		Assoc. Mastic w/ 12x12 Floor Tile – Grey w/Black Specks | 1st Floor – Kitchen
AR051220-77		Assoc. Mastic w/ 12x12 Floor Tile – Grey w/Black Specks | 1st Floor – NW Room
AR051220-78		Assoc. Mastic w/ 12x12 Floor Tile – Grey w/Black Specks | 1st Floor – NW Room
AR051220-79		Quarry Tile Grout – Dark Grey | 1st Floor – Fireplace Room
AR051220-80		Quarry Tile Grout – Dark Grey | 1st Floor – Fireplace Room
AR051220-81		Quarry Tile Grout – Dark Grey | 1st Floor – Fireplace Room
AR051220-82		Terrazzo – Red/White/Black | 1st Floor – By Main Entrance
AR051220-83		Terrazzo – Red/White/Black | 1st Floor – N. Garage
AR051220-84		Terrazzo – Red/White/Black | 1st Floor – S. Garage

Comments: Please email results to arodriguez@ccaltd.com

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CHAIN OF CUSTODY RECORD-PLM ASBESTOS

Project No: A164190001-28
Client: City of Chicago, AIS
Date: 5/12/20
Turn Around:

Project Name: Vacant EC 84
Project Location: 6204 S. Green St. Chicago, IL 60621
Collected By: Anthony Rodriguez

Sample ID/Number:	PLM % Asb.	Sample Description/Location
AR051220-85		Terrazzo – White & Tan | 1st Floor – N. Garage
AR051220-86		Terrazzo – White & Tan | 1st Floor – S. Garage
AR051220-87		Terrazzo – White & Tan | 1st Floor – By Main Entrance
AR051220-88		Terrazzo – Black & White | 1st Floor – S. Closet
AR051220-89		Terrazzo – Black & White | 1st Floor – S. Closet
AR051220-90		Terrazzo – Black & White | 1st Floor – S. Bathroom
AR051220-91		Exterior Door Caulk | By Main Entrance
AR051220-92		Exterior Door Caulk | By Main Entrance
AR051220-93		Exterior Door Caulk | By Main Entrance
AR051220-94		Assoc. Joint Compound w/Drywall | 2nd Floor – Womens Restrom/Shower
AR051220-95		Assoc. Joint Compound w/Drywall | 1st Floor – Fireplace Room
AR051220-96		Assoc. Joint Compound w/Drywall | 1st Floor – Kitchen
AR051220-97		Black Felt Paper | 2nd Floor – West End of W. Hallway
AR051220-98		Black Felt Paper | 2nd Floor – West End of W. Hallway
AR051220-99		Black Felt Paper | 2nd Floor – West End of W. Hallway
AR051220-100		12"x12" Floor Tile – Beige | 1st Floor Kitchen
AR051220-101		12"x12" Floor Tile – Beige | 1st Floor Kitchen
AR051220-102		12"x12" Floor Tile – Beige | 1st Floor Kitchen
AR051220-103		Assoc. Mastic w/12"x12" Floor Tile – Beige | 1st Floor Kitchen
AR051220-104		Assoc. Mastic w/12"x12" Floor Tile – Beige | 1st Floor Kitchen
AR051220-105		Assoc. Mastic w/12"x12" Floor Tile – Beige | 1st Floor Kitchen

Comments: Please email results to arodriguez@ccaltd.com

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Received By: _____ Date/Time _____

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CHAIN OF CUSTODY RECORD-PLM ASBESTOS

Project No: A164190001-28
Client: City of Chicago, AIS
Date: 5/12/20
Turn Around:

Project Name: Vacant EC 84
Project Location: 6204 S. Green St. Chicago, IL 60621
Collected By: Anthony Rodriguez

Sample ID/Number:	PLM % Asb.	Sample Description/Location
AR051220-106		Filter Paper | 1st Floor by Stairwell
AR051220-107		Filter Paper | 1st Floor by Stairwell
AR051220-108		Filter Paper | 1st Floor by Stairwell
AR051220-109		Window Glazing – Gray | 1st Floor South Closet in North Garage
AR051220-110		Window Glazing – Gray | 1st Floor North Garage
AR051220-111		Window Glazing – Gray | 1st Floor South Garage
AR051220-112		Black Tile | 1st Floor - Northwest Room
AR051220-113		Black Tile | 1st Floor - Northwest Room
AR051220-114		Black Tile | 1st Floor - Northwest Room
AR051220-115		Mastic Associated w/ Black Tile | 1st Floor - Northwest Room
AR051220-116		Mastic Associated w/ Black Tile | 1st Floor - Northwest Room
AR051220-117		Mastic Associated w/ Black Tile | 1st Floor - Northwest Room
AR051220-118		Pipe Fitting on Brown Insulation | Basement Hallway
AR051220-119		Pipe Fitting on Brown Insulation | Basement Hallway
AR051220-120		Pipe Fitting on Brown Insulation | Basement Hallway
AR051220-121		Brown Pipe Insulation | Basement Hallway
AR051220-122		Brown Pipe Insulation | Basement Hallway
AR051220-123		Brown Pipe Insulation | Basement Hallway
AR051220-124		Gray Pipe Fitting on Fiberglass Lines | Basement - Boiler Room
AR051220-125		Gray Pipe Fitting on Fiberglass Lines | Basement - Boiler Room
AR051220-126		Gray Pipe Fitting on Fiberglass Lines | Basement - Boiler Room

Comments: Please email results to arodriguez@ccaltd.com

Relinquished By: [signature] Date/Time 5/13/20
Received By: [signature] Date/Time 5/13/2020 435
Relinquished By: Date/Time
Received By: Date/Time

Carnow, Conibear & Assoc., Ltd.
Environmental Consulting Services
600 W. Van Buren St., Suite 500, Chicago, IL 60607
t: 312.782.4486 f: 312.782.5145
www.ccaltd.com

347140

CARNOW CONIBEAR

CHAIN OF CUSTODY RECORD-PLM ASBESTOS

Project No: A164190001-28
Client: City of Chicago, AIS
Date: 5/12/20
Turn Around:

Project Name: Vacant EC 84
Project Location: 6204 S. Green St. Chicago, IL 60621
Collected By: Anthony Rodriguez

Sample ID/Number:	PLM % Asb.	Sample Description/Location
AR051220-127		Fiberglass Pipe Fitting | Basement - Boiler Room
AR051220-128		Fiberglass Pipe Fitting | Basement - Boiler Room
AR051220-129		Fiberglass Pipe Fitting | Basement - Boiler Room
AR051220-130		Fiberglass Canvas Wrap | Basement - Boiler Room
AR051220-131		Fiberglass Canvas Wrap | Basement - Boiler Room
AR051220-132		Fiberglass Canvas Wrap | Basement - Boiler Room
AR051220-133		Glue Puck – Beige | 1st Floor North Garage – South Wall
AR051220-134		Glue Puck – Beige | 1st Floor North Garage – South Wall
AR051220-135		Glue Puck – Beige | 1st Floor North Garage – South Wall

Comments: Please email results to arodriguez@ccaltd.com

Relinquished By: Anthony Rodriguez — Date/Time 5/12/20
Received By: FedEx — Date/Time 5/13/2020 4:25
Relinquished By: — Date/Time
Received By: — Date/Time

ATTACHMENT B

Inspector License and Accreditation

CARNOW CONIBEAR

IDPH

ASBESTOS PROFESSIONAL LICENSE

ID NUMBER	ISSUED	EXPIRES
100 - 19297	4/11/2019	05/15/2020

ANTHONY M RODRIGUEZ
122 RICK CT.
OSWEGO, IL 60543

Environmental Health



ENDORSEMENTS	TC EXPIRES
INSPECTOR	1/7/2020
PROJECT MANAGER AIR SAMPLING PROFESSIONAL	12/8/2019

Alteration of this license shall result in legal action
This license issued under authority of the State of Illinois Department of Public Health
This license is valid only when accompanied by a valid training course certificate.

2019

OCCUPATIONAL TRAINING & SUPPLY, INC.

7233 S. Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900 ♦ www.otssafety.com

Asbestos Building Inspector Refresher

Occupational Training & Supply, Inc. certifies that

Anthony Rodriguez

has successfully completed the Asbestos Building Inspector Refresher course and has passed the competency exam with a minimum score of 70%. The course is accredited by the Illinois Department of Public Health and Indiana Department of Environmental Management for purposes of accreditation in accordance with EPA 40 CFR 763, Asbestos Hazard Emergency response Act (AHERA) and TSCA Title II.

Course Date: 10/18/2019

Exam Date: 10/18/2019

Expiration Date: 10/18/2020

Certificate Number: BIR1910181977

Kathy DeSalvo

Kathy DeSalvo, Director

ATTACHMENT C

Photographic Documentation

Photo Log

Image 1 Shows ACM Window Glazing – Grey in Garage Area

Photo Log

Image 2 Shows ACM Aircell Pipe Insulation in Boiler Room

Photo Log
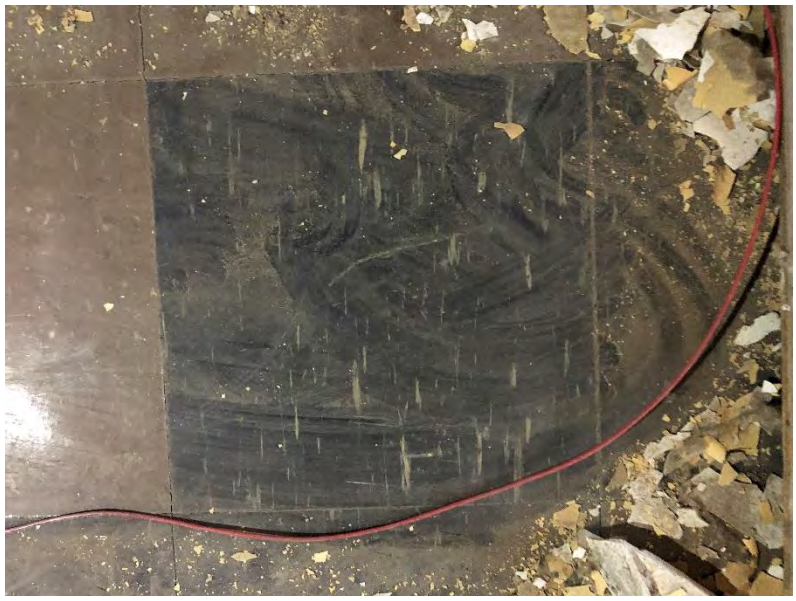
Image 3 Shows ACM 12x12 Floor Tile Black w/Beige Specks & Assoc. Mastic in Center Room

Photo Log

Image 4 Shows ACM 12x12 Red/Brown w/Beige Specks & Assoc. Mastic in Center Room

Photo Log

Image 5 Shows ACM Exterior Door Caulking by Main Entrance

Photo Log

Image 6 Shows ACM Black Floor Tile (2nd Layer) in Kitchen Area

Photo Log

Image 7 Shows ACM Fitting on Brown Insulation

Carnow, Conibear & Assoc., Ltd.
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May 26, 2020

Mr. Paul Waite, P.E.
Environmental Engineer III
City of Chicago Department of Assets, Information & Services (AIS)
Bureau of Environmental Health and Safety Management
30 North LaSalle, Suite 300
Chicago, Illinois 60602

RE: Mold Investigation – Vacant Engine Company 84 Building
6204 S. Green St., Chicago, IL 60621
Carnow Conibear Project: A164190001-28 (Release #11)

Dear Mr. Waite:

Carnow, Conibear & Assoc., Ltd. (Carnow Conibear) was retained by The Department of Assets, Information and Services (AIS) to perform a mold investigation at the of the vacant Engine Company 84 building in Chicago, Illinois. The investigation took place on May 13, 2020 consisted of checking for any unusual odors or signs of apparent visible mold growth on building materials, evidence of moisture, staining, rust or any other signs of water infiltration or condensation that might indicate the potential for mold growth, or moldy, musty odors suggestive of mold growth.

The mold investigation was conducted, and a visual inspection was performed by Anthony Rodriguez throughout the building. Observations were made of the layout and configuration of the room to determine any signs of apparent visible mold growth on building materials. Apparent mold growth was documented and photographed, and approximate mold growth was recorded.

Background

This investigation was performed in response to concerns of suspect mold growth. As reported to Carnow Conibear, the source of suspect mold observed was presumably due to water infiltration from possible roof leaks, plumbing leaks, or other type of maintenance problems resulting in chronic moisture exposure to building components.

Results

Results below reflect conditions at the time of the investigation. Observations of possible mold growth and/or stained building materials are tabulated in Table I.

Table I: Summary of Results
Mold Survey
Former South Chicago Health Center

Location	Visual Results of Suspected Mold Growth	Approx. Mold Growth
1st Floor N. Garage	Suspect mold Growth on Drywall Wall	30 S.F.
1st Floor N.W. Room	Suspect Mold Growth on Drywall Wall	100 S.F.
1st Floor Kitchen	Suspect mold Growth on Damage/Loose Paint and Drywall on Walls and Ceiling	992 S.F.
2nd Floor Main Hallway	Suspect mold Growth on Damage/Loose Paint on Walls and Ceiling	600 S.F.
2nd Floor N.E. Room	Suspect mold Growth on Damage/Loose Paint on Walls and Ceiling	1,000 S.F.
2nd Floor S.E. Room	Suspect mold Growth on Damage/Loose Paint on Walls and Ceiling	1,120 S.F.
2nd Floor Center Room	Suspect mold Growth on Damage/Loose Paint on Walls and Ceiling	2,306 S.F.
2nd Floor Men's Shower /Restroom	Suspect mold Growth on Damage/Loose Paint on Walls and Ceiling	51 S.F.
2nd Floor W. Hallway	Suspect mold Growth on Damage/Loose Paint on Walls and Ceiling	344 S.F.
2nd Floor West Room	Suspect mold Growth on Damage/Loose Paint on Walls and Ceiling	1,572 S.F.

Conclusions and Recommendations

Based on the results of this assessment, Carnow Conibear makes the following conclusions and recommendations:

1. Signs of visible mold growth were found in various areas throughout the entire building, with the worst of it being throughout the second floor on walls and ceilings. The specific cause of the mold growth was presumably due to water infiltration.

2. Clean and/or remove the mold impacted damage/loose paint chips and drywall surfaces. Clean by using a mild detergent or 10% bleach solution and High-Efficiency Particulate Air (HEPA) vacuum. Re-evaluate cleaned surfaces following clean-up.

3. Identify and correct the source(s) of moisture or the water infiltration issues(s). Control moisture sources to prevent future microbial growth.

4. Document all environmental work activities and retain records. Incorporate the data from this report into future demolition/renovation document.

See Appendix A for Photographic Documentation and Appendix B for background information on indoor environmental quality.

If you have any questions or require any additional information, please feel free to call me directly at 312.545.5303 or by email at arodriguez@ccaltd.com.

Sincerely,

CARNOW, CONIBEAR & ASSOC., LTD.



Anthony Rodriguez
Project Manager

ATTACHMENT A

Photographic Documentation

Photo Log

Image 1 Shows Suspect Mold Growth Typically Found Throughout the Building on Damage Paint

Photo Log

Image 2 Shows Suspect Mold Growth on Ceiling and Walls in N.E. Room

Photo Log

Image 2 Shows Suspect Mold Growth on Plaster Wall in Kitchen Area

Photo Log

Image 4 Shows Suspect Mold Growth on Drywall in N. Garage Area

ATTACHMENT B

Background Information on Environmental Mold

Mold

Spores from fungi (mold and yeast) are commonly present in the outdoor air and soil, particularly in warm weather seasons. Because spores are prevalent in the outdoor air, spores are found in the indoor air in all homes, schools, commercial and industrial buildings. In buildings that have closed windows and mechanical ventilation with filtration of outdoor air, indoor levels of airborne mold spores are usually lower than the outdoor levels. Closed windows help keep outdoor mold spores from accessing the building and ventilation system filters remove some of the spores from the indoor air. Since mold spores are present in the indoor and outdoor air and soil, it is common to find spores present on indoor building surfaces including floors and carpeting. The mold spores settle from the air on surfaces and are tracked in buildings on clothing or shoes. Thus, it is normal to find mold spores on all surfaces in buildings. However, if moisture is present from flooding, chronic water leaks or prolonged periods of high humidity, a reservoir of mold may grow (amplify). Active mold growth in buildings is unusual, and undesirable.

Molds play important roles in the decomposition of organic matter and the production of foods and medicines. However, molds may produce microbial volatile organic compounds which may cause musty, moldy odors that can be irritating. More importantly, mold spores may be inhaled and can produce various symptoms including upper respiratory irritation, aggravation or development of mold allergy, asthma, or lung infections in susceptible people like those with weakened immune systems. In recent years, exposure to mold has been alleged to cause a wide range of other adverse health effects. Scientific evidence on exposure and the alleged health effects is lacking, and in many cases controversial. Regardless of the debate over health affects, it is clear that mold growth inside a building is not desirable. Mold growth in buildings should be controlled by instituting good housekeeping that reduces available nutrients on building surfaces, providing adequate filtration of outdoor air, instituting good housekeeping, and most importantly, controlling sources of moisture.

Presently, there are no specific regulatory limits established for mold spores in indoor air or on surfaces by governmental agencies such as OSHA or the Environmental Protection Agency (EPA). Guidelines that have been established by the American Conference of Governmental Industrial Hygienists (ACGIH) and others typically recommend conducting a visual inspection for visible mold growth. If needed, sampling can be performed in complaint areas, non-complaint areas, and in the case of air samples, outdoors. Air sample results from complaint areas are compared to non-complaint areas. Indoor air sample results are compared to outdoor results. Outdoor air is used as a yardstick in evaluating indoor air sample results. In particular, in a building furnished with adequate filtration by a mechanical ventilation system, the counts of fungal microorganisms indoors should be lower than levels outdoors. In addition, the types of microorganisms indoors should be similar to the types outdoors. It is considered an unusual finding if indoor counts are higher than outdoor counts and/or if the types of fungal microorganisms indoors vary significantly from the types outdoors. To evaluate whether surfaces contain an unusual number of mold spores, samples are typically obtained in affected and non-affected areas and results compared by number and types of organisms. In a normal situation, the number of fungal organisms on surfaces would not be substantially different from one area to another in the same space and the types of fungal organisms should be diverse. It would be unusual if counts were substantially higher in otherwise similar areas or if a single or small number of organisms predominated.

If mold growth is present in a building, there are no regulatory standards prescribed by OSHA that mandate its removal. However, ancillary regulations and standards have been invoked by OSHA for hazard communication of remediation workers, proper personal protective equipment, and the EPA regulates the storage, use, and disposal of any registered fungicides that may be used.

Carnow, Conibear & Assoc., Ltd.
Environmental Consulting Services
600 West Van Buren St., Suite 500, Chicago, IL 60607
T: 312.782.4486 f: 312.782.5145
www.ccaltd.com

June 16, 2020

Mr. Paul Waite, P.E.
Environmental Engineer III
City of Chicago Department of Assets, Information and Services (AIS)
30 North LaSalle Street, Suite 300
Chicago, Illinois 60602

RE: Hazardous Material Survey – Vacant Engine Company 84
6204 S. Green Street, Chicago, IL 60621
Carnow Conibear Project: A164190001-28 (Release #11)

Dear Mr. Waite:

Carnow, Conibear & Assoc., Ltd. (Carnow Conibear) was retained by the Department of Assets, Information and Services (AIS) to perform a hazardous material survey of Vacant Engine Company 84 in Chicago, Illinois. The survey was conducted on May 12, 2020 by Ms. Lynzie Plumley of Carnow Conibear.

The survey consisted of a visual inspection to determine the location and quantity of hazardous and potentially hazardous materials that may require special disposal considerations. Areas proposed for renovation were surveyed for polychlorinated-biphenyl (PCB) containing equipment and materials (lighting ballasts, switchgears, transformers, and hydraulic fluids), and mercury-containing equipment and materials (mercury lamps, thermostats, switches, thermometers, regulators, and gauges), as well as other potentially hazardous chemicals. Hazardous materials identified during the survey are summarized in Table I.

Table I – Summary of Hazardous Material Survey

Vacant Engine Company 84
6204 S. Green Street
Chicago, Illinois 60621

CATEGORY	ITEM	QUANTITY	UNITS	LOCATION(S)
Chemicals	Liquid Animal Poison	1	Gallon	Basement east end of hallway
PCBs	Fluorescent Ballasts	80	each	Throughout Building
	HID Ballasts	5	each	Exterior of Building
Mercury	Fluorescent Bulbs	42	each	Throughout Building
	HID Bulbs	5	each	Exterior of Building
	Thermostats	1	each	1st Floor entryway

Table I – Summary of Hazardous Material Survey

Vacant Engine Company 84
6204 S. Green Street
Chicago, Illinois 60621

CATEGORY	ITEM	QUANTITY	UNITS	LOCATION(S)
	Gauges	2	each	Basement near UST
	Switches	24	each	Basement west end of hallway
Equipment	Aboveground Storage Tank	1	~2,500 gallon	Basement west of boiler room
	Air Conditioners	10	Each	Both garages, front hallway on first floor
	Coal Chute	1	each	Basement west of stairs

All high intensity discharge (HID) light and fluorescent light ballasts were assumed to potentially contain PCBs. All non-digital thermostats and gauges were assumed to contain mercury and should be handled with caution.

Based on the survey results, Carnow Conibear recommends the following:

- Incorporate the data from this report into future renovation documents regarding the presence of hazardous materials.
- Dispose of all hazardous materials generated during demolition/renovation work in accordance with all applicable local, state, and federal regulations.
- Prior to demolition/renovation; remove, dispose, and/or recycle all regulated universal waste materials as identified in this report.

Carnow Conibear has applied prevailing industry standards and reasonable judgment and effort within the scope of work outlined in Carnow Conibear's proposal, while conducting the hazardous material survey. The standards, judgment, and effort used by Carnow Conibear personnel to investigate, assess, and determine the presence of potential environmental hazards and liabilities associated with the subject building are consistent with requirements outlined in federal and state guidelines. Carnow Conibear makes no warranty, express or implied, that the findings and interpretations in this report are a complete representation hazards and liabilities, associated with the building. Findings presented in this report are only indicative of conditions present during the time of the investigation and cannot be used to predict potential future or previous health effects on building occupants. The services performed by Carnow Conibear on this project have been conducted in a professional manner consistent with industry standards at the time of inspection. There may be materials that were not identified because they were located in inaccessible areas and not available at the time of inspection. Carnow Conibear made every reasonable effort to locate mechanical systems and other inconspicuous materials.

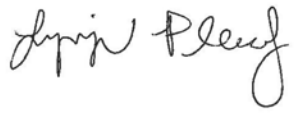
The information herein is only for the specific use of AIS and Carnow Conibear. Carnow Conibear accepts no responsibility for the use, reuse, interpretation, or reliance by other parties

on the information contained herein, unless written authorization has been obtained from Carnow Conibear. Carnow Conibear bears no responsibility for the implementation of recommendations included in this report unless specifically requested to do so by AIS.

Attachment A provides the inspector's accreditation, and **Attachment B** includes photographic documentation.

If you have any questions or require any additional information, please feel free to call Anthony Rodriguez directly at 312.545.5303 or by email at arodriguez@ccaltd.com.
Sincerely,

CARNOW, CONIBEAR & ASSOC., LTD.





Lynzie Plumley, ASP
Environmental Specialist II

Anthony Rodriguez
Project Manager

CARNOW CONIBEAR

ATTACHMENT A

Inspector Accreditation

CARNOW CONIBEAR

2015

OCCUPATIONAL TRAINING & SUPPLY, INC.

7233 S. Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900

Hazardous Waste Site Worker

Occupational Training & Supply, Inc. certifies that

Lynzie Plumley

has successfully completed the Hazardous Waste Site Worker course and has passed the competency exam in accordance with OSHA 29 CFR 1910.120, Hazardous Waste Operations and Emergency Response.

Course Date: 12/7/2015 - 12/11/2015

Exam Date: 12/11/2015

Expiration Date: 12/11/2016

Certificate Number: HW1512114260

Kathy DeSalvo

Kathy DeSalvo, Director

Certificate of Completion

This certifies that

Lynzie Plumley

has successfully completed

8 Hour HAZWOPER Refresher Training

Refresher certification does NOT necessarily indicate initial 24 or 40 Hour HAZWOPER certification

In Accordance w/Federal OSHA Regulation 29 CFR 1910.120(e) & (p)

And all State OSHA/EPA Regulations as well including 29 CFR 1926.65 for Construction.

This course (Version 2) is approved for 8 Contact Hours (0.8 CEUs) of continuing education per the California Department of Public Health for Registered Environmental Health Specialist (REHS) (Accreditation # 044).

Online Training Systems, LLC., Provider #5660170-2, is accredited by the International Association for Continuing Education and Training (IACET) and is accredited to issue the IACET CEU. As an IACET Accredited Provider, Online Training Systems, LLC. offers CEUs for its programs that qualify under the ANSI/IACET Standard. Online Training Systems, LLC. is authorized by IACET to offer 0.8 CEUs for this program.

Jules Griggs	2002075315542	2/7/2020
Instructor	Certificate Number	Issue Date

Julius P. Griggs

Julius P. Griggs
Program Administrator

Craig Hamilton
Training Director

ACCREDITED IACET PROVIDER

Scan this code or visit otsystems.net/v to verify certificate.

This course is distributed by HAZWOPERTraining.com (http://www.hazwopertraining.com/)
Proof of initial certification and subsequent refresher training is NOT required to take refresher training

OTS
HAZWOPERTraining.com
1100 Burloak Drive, Suite 300 Burlington,ON L7L
http://www.hazwopertraining.com/

ATTACHMENT B

Photographic Documentation

CARNOW CONIBEAR

Photo Log

Image 1 Shows Liquid Animal Poison at the East End of the Basement Hallway.

Photo Log

Image 2 Shows Typical Fluorescent Light Ballasts and Bulbs Found Throughout the Building.

Photo Log

Image 3 Shows HID Ballasts and Bulbs on the Exterior of the Building

Photo Log

Image 4 Shows a Thermostat in the First Floor Entryway.

CARNOW CONIBEAR

Photo Log



Image 5 Shows Suspected Gauges in the Basement near the UST in the West Room.

Photo Log



Image 6 Shows Switches in the Basement at the West End of the Hallway.

CARNOW CONIBEAR

Photo Log

Image 7 Shows the AST in the Basement West Room.

Photo Log

Image 8 Shows an Air Unit in the Garage.

Photo Log

Image 9 Shows the Coal Chute in the Basement West of the Stairs.

CARNOW CONIBEAR

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Environmental Consulting Services
600 W. Van Buren St., Suite 500, Chicago, IL 60607
t: 312.782.4486 f: 312.782.5145
www.ccaltd.com

May 26, 2020

Mr. Paul Waite, P.E.
Environmental Engineer III
City of Chicago Department of Assets, Information & Services (AIS)
Bureau of Environmental Health and Safety Management
30 North LaSalle, Suite 300 Chicago, Illinois 60602

RE: Limited Lead-Based Paint Building Survey
Vacant Fire Engine Company 84 Building 6204 S. Green St., Chicago, IL 60621
Carnow Conibear Project: A164190001-28 (Release #11)

Dear Mr. Waite:

Carnow, Conibear and Associates, Ltd. (Carnow Conibear) was requested by the The Department of Assets, Information and Services (AIS) to conduct a lead-based paint survey at the Vacant Fire Engine Company 84 building located in Chicago, Illinois. The inspection and sampling was limited to deteriorated painted surfaces located throughout on the vacant structure.

The assessment and sampling was conducted on May 12th & 13th, 2020 by Carnow Conibear representative Mr. Anthony Rodriguez and Mr. Josh Karlson. Mr. Rodriguez and Mr. Karlson are licensed by the Illinois Department of Public Health (IDPH) as Lead Inspectors/Risk Assessors.

Lead-Based Paint Sampling

The objective of the lead-based paint survey was to visually assess paint conditions and test accessible painted components and surface coatings to determine the existence and location of lead-based paint or lead containing coatings on painted components.

The lead-based paint survey consisted of visually inspecting the painted survey areas to determine representative paint histories and to collect random samples. The lead-based paint testing was limited to major building components only. Sampling of suspect lead-based paint (LBP) components and/or surfaces was conducted following the U.S. Department of Housing and Urban Development (HUD) guidelines of June 1995 for single family housing, Chapter 7, Lead Based Paint Inspection, 2012 Revision. There may be materials that were not identified, because they were in inaccessible areas and not available at the time of inspection.

The sampling was conducted by collecting a sample of all layers of dried paint from the component substrate and submitting samples for laboratory analysis. All samples were submitted to STAT Analysis Corporation (STAT) in Chicago, Illinois. STAT is accredited for the analysis of lead in paint by the American Industrial Hygiene Association (AIHA) Industrial Hygiene Laboratory Accreditation Program (IHLAP). The paint chip samples were analyzed using NIOSH method 7082, Flame Atomic Absorption Spectrometry. The U.S. Department of Housing and Urban Development and the U.S. Environmental Protection Agency define lead-based paint as paint or other surface coatings that contain lead equal to or greater than 0.5 percent by weight or 5,000 mg/Kg.

Table I:
Vacant Fire Engine Company 84 Building: Lead-Based Paint Bulk Sample Laboratory Results
May 12, 2020

Sample Number	Location	Component	Substrate	Color	Paint Condition	Result (mg/Kg)
L-02	Basement – West Area	S. Wall	Concrete	Red	Deteriorated	11,000
L-04	Basement – West Area	S. Wall	Wood Panel	Red	Deteriorated	38,000
L-06	2nd Floor – Main Hallway	E. Wall	Plaster	Tan	Deteriorated	39,000
L-07	2nd Floor – Main Hallway	E. Wall	Plaster	Brown	Deteriorated	35,000
L-09	2nd Floor – W. Hallway	Door	Wood	Brown	Deteriorated	5400
L-10	2nd Floor – Center Room	Window	Metal	Brown	Deteriorated	62,000
L-11	2nd Floor – Center Room	Window	Wood	Brown	Deteriorated	19,000
L-12	2nd Floor – Stairwell	Railing	Metal	Brown	Deteriorated	7400
L-17	1st Floor – Kitchen	N. Wall	Metal	White, Tan, & Brown	Deteriorated	5,000
L-18	1st Floor – N.W. Room	Ceiling	Plaster	White, Tan, Green, & Pink	Deteriorated	67,000
L-20	1st Floor – N. Bathroom	Ceiling	Plaster	Grey & Tan	Deteriorated	12,000

Painted surfaces which indicate a concentration of 5,000 mg/Kg or greater are considered to be lead-based paint as defined by HUD.

Conclusions and Recommendations

Based on the results of the lead-based paint inspection conducted on May 12, 2020 and May 13, 2020, Carnow Conibear offers the following conclusions and recommendations:

- Results of the inspection and sampling confirm lead-based paint is present in the subject facility.

- All work involving the disturbance of lead-based paint or lead containing coatings should be preformed by an IDPH licensed lead abatement contractor in accordance with applicable IDPH, EPA, and OSHA regulations and requirements.

- Utilize engineering controls and personal protective equipment as necessary during renovation or demolition activities impacting painted components to ensure employee lead exposures are below the OSHA lead in construction standard (29 CFR 1926.62). The OSHA lead standard applies to construction work where employees could be exposed to lead, regardless of the lead content in paint. Until an employee-exposure assessment is conducted and determines the magnitude of exposure occurring during lead-related activities, assume the employee performing the lead-related task is exposed to lead concentrations

- The OSHA lead in construction standard (29 CFR 1926.62) limits lead exposures below the Action Level and Permissible Exposure Limit (PEL) from any source during all construction activities. The OSHA lead in construction standard limits employees lead exposure to a PEL of 50 micrograms per cubic meter ($\mu g/m^3$), measured as an 8-hour Time Weighted Average (TWA) and 30 $\mu g/m^3$ as an 8-hour TWA Action Level.

- Dispose of all paint waste generated during removal and/or demolition/renovation work in accordance with all applicable local, state, and federal regulations.

- Document all environmental work activities and retain records

See **Attachment A** for the Laboratory Sample Results, **Attachment B** for the Inspector License and Accreditation, and **Attachment C** for the Photographic Documentation.

Please feel free to contact me directly at 312.762.2938 or arodriguez@ccaltd.com should you have any questions or require any additional information.

Sincerely,

CARNOW, CONIBEAR & ASSOC., LTD.

Anthony Rodriguez
Project Manager

ATTACHMENT A

Laboratory Sample Results and Chain of Custody Documentation

CARNOW CONIBEAR

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

May 15, 2020

Carnow, Conibear, & Associates
600 W. Van Buren Street
Chicago, IL 60607

Telephone: (312) 782-4486
Fax: (312) 782-5145

Analytical Report for STAT Work Order: 20050355 Revision 0

RE: A164190001-28, Vacant EC84, 6204 S. Green St.

Dear Carnow, Conibear, & Associates:

STAT Analysis received 22 samples for the referenced project on 5/13/2020 3:55:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met AIHA-LAP, LLC (a NLLAP recognized accrediting body), EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. Sample acceptance criteria has been met unless noted in the Case Narrative or Sample Receipt Checklist. If required, an estimate of uncertainty for the analyses can be provided. Sample results have not been corrected for contamination based on field blank or other analytical blank, unless noted in the case narrative.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,

Antonio Nevarez
Project Manager

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples as received and tested. If you have received this report in error, please notify us immediately by phone.This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATanalysis.com
Accreditation Numbers : IEPA ELAP 100445 ; ORELAP IL300001 ; AIHA-LAP, LLC 101160

Date Reported: May 15, 2020
Date Printed: May 15, 2020

ANALYTICAL RESULTS

Client: Carnow, Conibear, & Associates
Work Order: 20050355 Revision 0
Project: A164190001-28, Vacant EC84, 6204 S. Green St.

Client ID	Additional Info	Sample ID	Matrix	Lead Result	Units	Qualifier	Analyst	Date Analyzed	Analytical Method
L-01		20050355-001A	Paint Chips	910	mg/Kg		CAB	05/14/2020	N7082M
L-02		20050355-002A	Paint Chips	11000	mg/Kg		CAB	05/14/2020	N7082M
L-03		20050355-003A	Paint Chips	810	mg/Kg		CAB	05/14/2020	N7082M
L-04		20050355-004A	Paint Chips	38000	mg/Kg		CAB	05/14/2020	N7082M
L-05		20050355-005A	Paint Chips	< 87	mg/Kg		MD	05/14/2020	N7082M
L-06		20050355-006A	Paint Chips	39000	mg/Kg		CAB	05/14/2020	N7082M
L-07		20050355-007A	Paint Chips	35000	mg/Kg		CAB	05/14/2020	N7082M
L-08		20050355-008A	Paint Chips	< 84	mg/Kg		MD	05/14/2020	N7082M
L-09		20050355-009A	Paint Chips	5400	mg/Kg		CAB	05/14/2020	N7082M
L-10		20050355-010A	Paint Chips	62000	mg/Kg		CAB	05/14/2020	N7082M
L-11		20050355-011A	Paint Chips	19000	mg/Kg		CAB	05/14/2020	N7082M
L-12		20050355-012A	Paint Chips	7400	mg/Kg		CAB	05/14/2020	N7082M
L-13		20050355-013A	Paint Chips	2700	mg/Kg		CAB	05/14/2020	N7082M
L-14		20050355-014A	Paint Chips	170	mg/Kg		CAB	05/14/2020	N7082M
L-15		20050355-015A	Paint Chips	< 93	mg/Kg		CAB	05/14/2020	N7082M
L-16		20050355-016A	Paint Chips	< 88	mg/Kg		CAB	05/14/2020	N7082M
L-17		20050355-017A	Paint Chips	5000	mg/Kg		CAB	05/14/2020	N7082M
L-18		20050355-018A	Paint Chips	67000	mg/Kg		CAB	05/14/2020	N7082M
L-19		20050355-019A	Paint Chips	1500	mg/Kg		CAB	05/14/2020	N7082M

Reporting limit for paints is 100 mg/Kg based on 0.05 g sample digested.

Qualifiers:
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
* - Non-accredited parameter

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATanalysis.com
Accreditation Numbers : IEPA ELAP 100445 ; ORELAP IL300001 ; AIHA-LAP, LLC 101160

Date Reported: May 15, 2020
Date Printed: May 15, 2020

ANALYTICAL RESULTS

Client: Carnow, Conibear, & Associates
Work Order: 20050355 Revision 0
Project: A164190001-28, Vacant EC84, 6204 S. Green St.

Client ID	Additional Info	Sample ID	Matrix	Lead Result	Units	Qualifier	Analyst	Date Analyzed	Analytical Method
L-20		20050355-020A	Paint Chips	12000	mg/Kg		MD	05/14/2020	N7082M
L-21		20050355-021A	Paint Chips	4200	mg/Kg		CAB	05/14/2020	N7082M
L-22		20050355-022A	Paint Chips	97	mg/Kg		CAB	05/14/2020	N7082M

Reporting limit for paints is 100 mg/Kg based on 0.05 g sample digested.

Qualifiers:
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
* - Non-accredited parameter

STAT Analysis Corporation
2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD

Page : 1 of 2

Client: Cornow, Conibear & Assoc.
Street Address: 600 W. Van Buren St., Suite 500
City, State, Zip: Chicago, IL 60607
Phone: 312-545-5303
Fax:
e-mail/Alt. Fax: arodriguez@scaltd.com
Project Number: A164190001-28
Project Name: Vacant EC 54
Project Location: 6204 S. Green St.
Project Manager: Anthony Rodriguez
P.O. Number:

Turn Around: 4 Hrs: X 8 Hrs: 24 Hrs: 1 Day: 2 Days: 3 Days: 5 Days:
Date Due: Time Due: Note: Not all turn around times are available for all analysis.

OFFICE USE ONLY BELOW:
Batch No.: 20050355
Samples Acceptable: Yes: X No:
Checked by (Initial/Date): 5/14/20
QC by (Initial/Date):
Reported By (Initial/Date/Time/Method):
Comments:

Relinquished by: Anthony Rodriguez Date/Time: 5/13/20
Received by: Date/Time: 5/13/20 15:55
Relinquished by: Date/Time:
Received by: Date/Time:
Relinquished by: Date/Time:
Received by: Date/Time:

Client Sample Number/Description:	Date Taken	Time On	Time Off	Rate (lpm)	Volume (Liters)	Area Wiped (ft^2)	Laboratory Sample No.	Lead Air	Lead Ambient Air	Lead Based Paint	Lead Soil	Lead Drinking Water	Lead Waste Water	Lead Wipe		TCLP Lead	TCLP RCRA Metals		Dust NIOSH 500	Dust NIOSH 600		Hexavalent Chromium		Other:
L-01/Brick/Red/E-Wall/Basement							001			X														
L-02/Concrete/Red/S-Wall/Basement							002			X														
L-03/Corrugated Metal/Red/S-Wall/Basement							003			X														
L-04/Wood Panel/Red/W-Wall/Basement							004			X														
L-05/Plaster/White/E.Wall/2nd Flr - Main Hallway							005			X														
L-06/Plaster/Tan/E.Wall/2nd Flr - Main Hallway							006			X														
L-07/Plaster/Brown/E.Wall/2nd Flr - Main Hallway							007			X														
L-08/Plaster/White/Tan/Ceiling/2nd Flr - Main Hallway							008			X														
L-09/Wood/Brown/Door/2nd Floor - W. Hallway closet							009			X														
L-10/Metal/Brown/Window/2nd Flr - Center Rm							010			X														
L-11/Wood/Brown/Window/2nd Flr - Center Rm							011			X														
L-12/Metal/Brown/Stair rail/2nd Flr - Stairwell							012			X														
L-13/Plaster/White/Tan/Ceilings/1st Flr - N. Garage							013			X														

Comments:

STAT Analysis Corporation
2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD

Client:	Cornerstone Consultants & Assoc.
Street Address:	600 W. Van Buren St, Suite 500
City, State, Zip:	Chicago, IL 60607
Phone:	312-545-5303
Fax:	
e-mail/Alt. Fax:	arodriguez@ccaltd.com
Project Number:	A164190001-28
Project Name:	Vacant EC 84
Project Location:	6204 S. Green St.
Project Manager:	Anthony Rodriguez
P.O. Number:	

Turn Around: 4 Hrs: [X] 8 Hrs: [ ] 24 Hrs: [ ] 1 Day: [ ] 2 Days: [ ] 3 Days: [ ] 5 Days: [ ]

Date Due: Time Due: Note: Not all turn around times are available for all analysis.

OFFICE USE ONLY BELOW:

Batch No.: 20050355

Samples Acceptable: Yes: [✓] No: [ ]

Checked by (Initial/Date): Joe 5/14/20

QC by (Initial/Date):

Reported By (Initial/Date/Time/Method):

Comments:

Relinquished by:	Date/Time:	5/13/20
Received by:	Date/Time:	5/13/20 15:55
Relinquished by:	Date/Time:	
Received by:	Date/Time:	
Relinquished by:	Date/Time:	
Received by:	Date/Time:	

Client Sample Number/Description:	Date Taken	Time On	Time Off	Rate (lpm)	Volume (Liters)	Area Wiped (ft^2)	Laboratory Sample No.	Lead Air	Lead Ambient Air	Lead Based Paint	Lead Soil	Lead Drinking Water	Lead Waste Water	Lead Wipe		TCLP Lead	TCLP RCRA Metals		Dust NIOSH 500	Dust NIOSH 600		Hexavalent Chromium		Other:
L-14/ Drywall/ White/				N. Wall /	1st Flr-	N. Hallway	014			X														
L-15/ Drywall/ White/				S. Wall /	1st Flr-	N.W. Room	015			X														
L-16/ Plaster/ White, Brick, Tan/				S. Wall /	1st Flr-	N.W. Room	016			X														
L-17/ Metal/ White, Tan, Brown/				N. Wall /	1st Flr-	Kitchen	017			X														
L-18/ Plaster/ White, Tan, Brown, Pink/				Ceiling /	1st Flr-	N.W. Room	018			X														
L-19/ Wood/ Black /				Door /	1st Floor-	NW Room	019			X														
L-20/ Plaster/ Grey & Tan/					1st Flr-	N. Bathroom	020			X														
L-21/ Metal/ White /					1st Flr-	S. Closet	021			X														
L-22/ Metal/ Red/					Exterior	Garage Door	022			X														

Comments:

ATTACHMENT B

Inspector License and Certification Documentation

CARNOW CONIBEAR

IDPH

LEAD RISK ASSESSOR LICENSE

LEAD ID
1002461

ISSUED
1/7/2020

EXPIRES
1/31/2021



Anthony Rodriguez
122 Rick Court
Oswego, IL 60543

ILLINOIS LEAD PROGRAM
Environmental Health

Alteration of this license shall result in legal action

RISK ASSESSOR CERTIFICATE EXPIRES

12/20/2021

This license issued under authority of the State of Illinois -Department of Public Health

This license is valid only when accompan ed by a valid training course certificate

If found return to 525 W. Jefferson St Springfield, IL 62761

2018

OCCUPATIONAL TRAINING & SUPPLY, INC.

7233 S. Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900 ♦ www.otssafety.com

Lead Risk Assessor Initial

Occupational Training & Supply, Inc. certifies that

Anthony Rodriguez

has successfully completed the Lead Risk Assessor Initial course and has passed the competency exam with a minimum score of 70%. This course is accredited by the Illinois Department of Public Health in accordance with the Illinois Lead Poisoning Prevention Code.

Course Date: 12/19/2018 - 12/20/2018

Exam Date: 12/20/2018

Expiration Date: 12/20/2021

Certificate Number: LRA1812203561

Kathy DeSalvo

Kathy DeSalvo, Director

2018

OCCUPATIONAL TRAINING & SUPPLY, INC.

7233 S. Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900 ♦ www.otssafety.com

Lead Inspector Initial

Occupational Training & Supply, Inc. certifies that

Anthony Rodriguez

has successfully completed the Lead Inspector Initial course and has passed the competency exam with a minimum score of 70%. This course is accredited by the Illinois Department of Public Health in accordance with the Illinois Lead Poisoning Prevention Code.

Course Date: 12/5/2018 - 12/7/2018

Exam Date: 12/7/2018

Expiration Date: 12/7/2021

Certificate Number: LI1812073352

Kathy DeSalvo, Director

IDPH

LEAD RISK ASSESSOR LICENSE

LEAD ID	ISSUED	EXPIRES
1002458	1/7/2020	1/31/2021



Joshua E Karlson
15504 S LaVergne Avenue
Oak Forest, IL 60452

ILLINOIS LEAD PROGRAM
Environmental Health

Alteration of his license shall result in legal action

RISK ASSESSOR CERTIFICATE EXPIRES

12/20/2021

This license issued under authority of the State of Illinois -Department of Public Health

This license is valid only when accompanied by a valid training course certificate

If found return to 525 W. Jefferson St Springfield, IL 62761

2018

OCCUPATIONAL TRAINING & SUPPLY, INC.

7233 S. Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900 ♦ www.otssafety.com

Lead Risk Assessor Initial

Occupational Training & Supply, Inc. certifies that

Joshua Karlson

has successfully completed the Lead Risk Assessor Initial course and has passed the competency exam with a minimum score of 70%. This course is accredited by the Illinois Department of Public Health in accordance with the Illinois Lead Poisoning Prevention Code.

Course Date: 12/19/2018 - 12/20/2018

Exam Date: 12/20/2018

Expiration Date: 12/20/2021

Certificate Number: LRA1812203553

Kathy DeSalvo

Kathy DeSalvo, Director

2018

OCCUPATIONAL TRAINING & SUPPLY, INC.

7233 S. Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900 ♦ www.otssafety.com

Lead Inspector Initial

Occupational Training & Supply, Inc. certifies that

Joshua Karlson

has successfully completed the Lead Inspector Initial course and has passed the competency exam with a minimum score of 70%. This course is accredited by the Illinois Department of Public Health in accordance with the Illinois Lead Poisoning Prevention Code.

Course Date: 12/5/2018 - 12/7/2018

Exam Date: 12/7/2018

Expiration Date: 12/7/2021

Certificate Number: LI1812073346

Kathy DeSalvo

Kathy DeSalvo, Director

ATTACHMENT C

Photographic Documentation

CARNOW CONIBEAR

Photo Log



Image 1 Shows Lead Based Paint Damage Walls and Ceiling in N.W. Room on 1st Floor

Photo Log



Image 2 Shows Lead Based Paint Damage Walls and Ceiling in Center. Room on 2nd Floor

Photo Log



Image 3 Shows Lead Based Paint Damage Walls and Ceiling in Main Hallway on 2nd Floor

Photo Log



Image 4 Shows Lead Based Paint Damage Walls and Ceiling in N.E. Room on 2nd Floor

Photo Log



Image 5 Shows Lead Based Paint Damage Walls and Ceiling in S.E. Room on 2nd Floor

Photo Log



Image 6 Shows Lead Based Paint Damage in Stairwell

Operation and Maintenance Plan Owner's Certification Statement

Property Name:

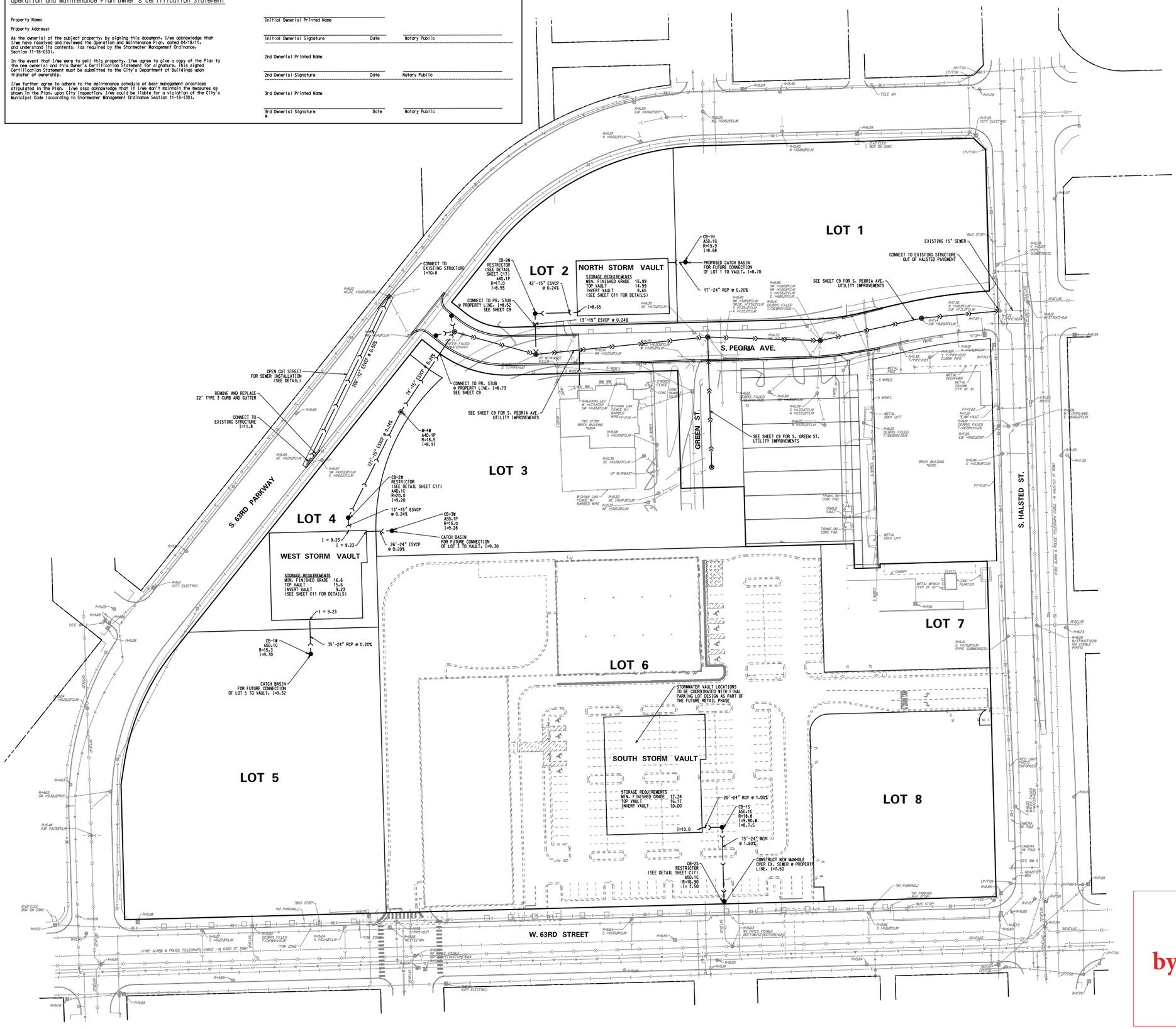
Property Address:

As the owner(s) of the subject property, by signing this document, I/we acknowledge that I/we have received and reviewed the Operation and Maintenance Plan, dated 04/18/11, and understand its contents. (as required by the Stormwater Management Ordinance, Section 11-18-030).

In the event that I/we were to sell this property, I/we agree to give a copy of the Plan to the new owner(s) and this Owner's Certification Statement for signature. This signed Certification Statement must be submitted to the City's Department of Buildings upon transfer of ownership.

I/we further agree to adhere to the maintenance schedule of best management practices stipulated in the Plan. I/we also acknowledge that if I/we don't maintain the measures as shown in the Plan, upon City inspection, I/we could be liable for a violation of the City's Municipal Code (according to Stormwater Management Ordinance Section 11-18-030).

Initial Owner(s) Printed Name		
Initial Owner(s) Signature	Date	Notary Public
2nd Owner(s) Printed Name		
2nd Owner(s) Signature	Date	Notary Public
3rd Owner(s) Printed Name		
3rd Owner(s) Signature	Date	Notary Public


LOT 1
LOT 2
LOT 3
LOT 4
LOT 5
LOT 6
LOT 7
LOT 8
NORTH STORM VAULT
STORAGE REQUIREMENTS
MIN. FINISHED GRADE 15.99
TOP VAULT 14.99
INVERT VAULT 8.65
(SEE SHEET C11 FOR DETAILS)
WEST STORM VAULT
STORAGE REQUIREMENTS
MIN. FINISHED GRADE 16.6
TOP VAULT 15.6
INVERT VAULT 9.23
(SEE SHEET C11 FOR DETAILS)
SOUTH STORM VAULT
STORAGE REQUIREMENTS
MIN. FINISHED GRADE 17.34
TOP VAULT 16.17
INVERT VAULT 10.00
S. PEORIA AVE.
S. HALSTED ST.
S. GREEN ST.
S. 63RD PARKWAY
W. 63RD STREET
CONNECT TO EXISTING STRUCTURE I=10.8
CB-2N RESTRICTOR (SEE DETAIL SHEET C17) A40.1P R=17.0 I=8.55
CONNECT TO PR. STUB @ PROPERTY LINE, I=8.52 SEE SHEET C9
42"-15" ESVCP @ 0.24%
13'-15" ESVCP @ 0.24%
CB-1N A50.1G R=15.9 I=8.68
PROPOSED CATCH BASIN FOR FUTURE CONNECTION OF LOT 1 TO VAULT, I=8.70
17'-24" RCP @ 0.20%
SEE SHEET C9 FOR S. PEORIA AVE. UTILITY IMPROVEMENTS
EXISTING 15" SEWER
CONNECT TO EXISTING STRUCTURE OUT OF HALSTED PAVEMENT
CONNECT TO PR. STUB @ PROPERTY LINE, I=8.73 SEE SHEET C9
SEE SHEET C9 FOR S. PEORIA AVE. UTILITY IMPROVEMENTS
SEE SHEET C9 FOR S. GREEN ST. UTILITY IMPROVEMENTS
OPEN CUT STREET FOR SEWER INSTALLATION (SEE DETAIL)
REMOVE AND REPLACE 22' TYPE 3 CURB AND GUTTER
CONNECT TO EXISTING STRUCTURE I=11.8
200'-12"/8" ESVCP @ 0.50%
14'-15" ESVCP @ 0.24%
M-4W A40.1P R=18.5 I=8.91
CB-2W RESTRICTOR (SEE DETAIL SHEET C17) A40.1C R=20.0 I=9.20
13'-15" ESVCP @ 0.24%
CB-3W A50.1P R=15.0 I=9.28
CATCH BASIN FOR FUTURE CONNECTION OF LOT 3 TO VAULT, I=9.30
26'-24" ESVCP @ 0.20%
I = 9.23
CB-1W A50.1G R=15.3 I=9.30
35'-24" RCP @ 0.20%
CATCH BASIN FOR FUTURE CONNECTION OF LOT 5 TO VAULT, I=9.32
STORMWATER VAULT LOCATIONS TO BE COORDINATED WITH FINAL PARKING LOT DESIGN AS PART OF THE FUTURE RETAIL PHASE
20'-24" RCP @ 1.00%
CB-1S A50.1C R=18.8 I=9.80+W I=8.1+S
75'-24" RCP @ 1.60%
CB-2S RESTRICTOR (SEE DETAIL SHEET C17) A50.1C R=16.95 I=7.50
CONSTRUCT NEW MANHOLE OVER EX. SEWER @ PROPERTY LINE, I=7.50
I = 10.0
I = 9.23
I = 9.23
I = 9.23

Lots 3 & 5 Conditions Summary

~~LOT 1~~

~~Site Data~~

- ~~Lot Area: 57,951 square feet or 1.331 acres~~
- ~~Halsted Avenue Frontage: 165.76 feet~~
- ~~South 63rd Parkway Frontage: 314.15 feet~~
- ~~South Peoria Avenue Frontage: 328.66 feet~~
- ~~Zoning: C1-2~~
- ~~Allowable FAR: 2.2~~
- ~~See Site Plan~~

~~Utility Connections available adjacent to Site as follows:~~

- ~~Sanitary Sewer: 15" sewer in S. Peoria Avenue or 15" sewer stub located at S. 63rd Parkway ROW.~~
- ~~Water: 12" watermain in S. 63rd Parkway.~~
- ~~Storm Sewer: 24" sewer located on the west side of the lot. Sewer is connected to underground detention vault.~~
- ~~Electric: Overhead lines located on S. Peoria Avenue.~~
- ~~Gas: Gas main located in Halsted Avenue.~~
- ~~Phone: Overhead lines located in S. Peoria Avenue.~~
- ~~Stormwater Management: Detention provided in underground vault on adjacent lot to the west. 90% impervious coverage assumed for the developed lot. Vault maintenance to be provided in accordance with the Operations and Maintenance Plan dated August 19, 2014.~~

~~General Site Conditions~~

- ~~Existing surface paving was removed and known underground utilities removed.~~
- ~~Lot was mass graded to provide drainage.~~

~~Environmental Condition:~~

- ~~All environmental assessment work was completed this included a Phase I ESA, Ground Penetrating Radar survey, test pits, soil and groundwater sampling and analytical testing.~~
- ~~All relevant environmental data were compiled into the required IEPA reports and submitted to the Site Remediation Program (SRP).~~
- ~~The SRP reports were reviewed and approved by the IEPA, including the Corrective ActionRemedial Action Plan (CAPRAP). The CAP RAP allows for residual impacted materials to remain on site with the use of engineered barriers (standard asphalt or concrete pavement, building foundations, or 1.5 feet of certified clean soil above a geotextile in unpaved, greenspaces) and institutional controls (no potable use of groundwater from site and construction worker notifications). Site is restricted to Industrial/Commercial land uses. Refer to IEPA's Draft NFR (No Further Remediation) letter.~~
- ~~There were no known USTs or "hot spot" remediation areas identified on this lot. Site must be capped with final engineered barriers as part of its redevelopment plan and the appropriate documentation must then be submitted to the SRP in order to obtain a Final NFR letter for this particular site~~
- ~~Surplus soil export may not be considered clean construction and demolition debris (CCDD) waste and may require special disposal.~~

LOT 3

Site Data

- Lot Area: 61,258 square feet or 1.406 acres
- South 63rd Parkway Frontage: 20.00 feet
- South Peoria Avenue Frontage: 277.52 feet
- Green Street Frontage: 189.50 feet
- Zoning: C1-2
- Allowable FAR: 2.2

Utility Connections available adjacent to Site as follows:

- Sanitary Sewer: 15" sewer in S. Peoria Avenue or 15" sewer in Green Street
- Water: 12" watermain in S. 63rd Parkway.
- Storm Sewer: 24" sewer located on the west side of the lot. Sewer is connected to underground detention vault.
- Electric: Overhead lines located in S. Peoria Avenue and in an easement along the south lot line
- Gas: Gas main located in S. Peoria Avenue
- Phone: Overhead lines located in S. Peoria Avenue and in an easement along the south lot line
- Stormwater Management: Detention provided in underground vault on adjacent lot to the west. 90% impervious coverage assumed for the developed lot. Vault maintenance to be provided in accordance with the Operations and Maintenance Plan dated August 19, 2014.

General Site Conditions

- Existing surface paving was removed and known underground utilities removed.
- Lot was mass graded to provide drainage.
- Existing Fire House remains and is a designated Chicago Landmark Building.
- 10' Electric and Phone utility easement exists along the south property line.

Environmental Condition:

- All environmental assessment work was completed-this included a Phase I ESA, Ground Penetrating Radar survey, test pits, soil and groundwater sampling and analytical testing.
- All relevant environmental data were compiled into the required IEPA reports and submitted to the Site Remediation Program (SRP).
- The SRP reports were reviewed and approved by the IEPA, including the ~~Corrective~~ Remedial Action Plan (RC~~C~~AP). The RC~~C~~AP allows for residual impacted materials to remain on site with the use of engineered barriers (standard asphalt or concrete pavement, building foundations, or 1.5-feet of certified clean soil above a geotextile in unpaved, greenspaces) and institutional controls (no potable use of groundwater from site and construction worker notifications). Site is restricted to Industrial/Commercial land uses. Refer to IEPA's Draft NFR (No Further Remediation) letter.
- All known USTs and "hot spot" remediation areas were successfully removed and remediated.
- Site must be capped with final engineered barriers as part of its redevelopment plan and the appropriate documentation must then be submitted to the SRP in order to obtain a Final NFR letter for this particular site.
- The firehouse will require hazardous material, asbestos, mold, and lead abatement and removal of a 2,500 above ground storage tank in the basement in accordance with all local, state and federal regulations.
- Surplus soil export may not be considered clean construction and demolition debris (CCDD)waste and may require special disposal.

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Lots 3 & 5 Conditions Summary

LOT 5

Site Data

- Lot Area: 77,631 square feet or 1.782 acres
- South 63rd Parkway Frontage: 319.39 feet
- South 63rd Street Frontage: 273.40 feet
- Zoning: C1-2
- Allowable FAR: 2.2

Available Utility Connection Information

- Sanitary Sewer: 12" sewer in S. 63rd Parkway or 30" sewer in S. 63rd Street
- Water: 12" watermain in S. 63rd Parkway.
- Storm Sewer: 24" sewer located on the north side of the lot. Sewer is connected to underground detention vault.
- Electric: Underground lines located in S. 63rd Street and in an easement on the adjacent lot.
- Gas: Gas main located in S. 63rd Street.
- Phone: Underground lines located in S. 63rd Street and in an easement on the adjacent lot.
- Stormwater Management: Detention provided in underground vault on adjacent lot to the west. 90% impervious coverage assumed for the developed lot. Vault maintenance to be provided in accordance with the Operations and Maintenance Plan dated August 19, 2014.

General Site Conditions

- Existing surface paving was removed and known underground utilities removed.
- Lot was mass graded to provide drainage.

Environmental Condition:

- All environmental assessment work was completed-this included a Phase I ESA, Ground Penetrating Radar survey, test pits, soil and groundwater sampling and analytical testing.
- All relevant environmental data were compiled into the required IEPA reports and submitted to the Site Remediation Program (SRP).
- The SRP reports were reviewed and approved by the IEPA, including the ~~Corrective~~ Remedial Action Plan (~~CAP~~RAP). The ~~CAP~~ RAP allows for residual impacted materials to remain on site with the use of engineered barriers (standard asphalt or concrete pavement, building foundations, or 1.5-feet of certified clean soil above a geotextile in unpaved, greenspaces) and institutional controls (no potable use of groundwater from site and construction worker notifications). Site is restricted to Industrial/Commercial land uses. Refer to IEPA's Draft NFR (No Further Remediation) letter.
- All known USTs and "hot spot" remediation areas were successfully removed and remediated.
- ~~Surplus soil export may not be considered CCD waste and may require special disposal.~~
- Site must be capped with final engineered barriers as part of its redevelopment plan and the appropriate documentation must then be submitted to the SRP in order to obtain a Final NFR letter for this particular site.
- Surplus soil export may not be considered clean construction and demolition debris (CCDD) waste and may require special disposal.
- ~~Surplus soil export may not be considered CCD waste and may require special disposal.~~