



Dust Mitigation Plan

April 21, 2020



MORGAN / HARBOUR
CONSTRUCTION

DUST CONTROL MEASURES

•Water

- Most effective dust mitigation tool. Controls wind erosion
- Will be used **throughout the workday** supporting the site operations and weather conditions.
- MHC will deploy **two water trucks** on the site during major excavations. **Double the capacity required for this project.**
- Watering of parking areas and temporary onsite haul roads is included to minimize dust.

•Sweeping Equipment

- Street sweepers, using water and vacuum, to be used at site perimeter on a regular schedule, regardless of onsite operations.
- Sweeping equipment to be deployed within site boundaries to manage dust on paved areas.
- Additional street sweepers to be on call during mass excavation or after rain events.

•Site Management Professionals

- **An independent dust and erosion control inspector (Christopher B. Burke Engineering)** will be responsible for site inspections and reporting on the execution of the dust control plan.
- **Full time MHC employee will be deployed with the responsibility for erosion and dust control during all construction activities.**
- MHC designated dust control monitor has the authority to stop work if dust control program is not adhered to by trade partners.
- Independent dust and erosion control inspector will be responsible for documenting surrounding community and roadway conditions on daily basis.
- Monitor wind speed and direction throughout the day for potential adverse effect to dust control program.

•Temporary Vegetation

- Ground covering will be installed at future landscape areas to stabilize exposed soil as soon as possible following excavation activities.
- Reduces erosion issues during rain and wind events.

•Barriers

- Maintenance of the perimeter fence wind screen will control air currents, reducing dust migration from the site. Immediate repair of wind screen and street cleaning will be implemented incase of incident.
- Asphalt pavement to be installed as soon as construction progress will allow.

•Stone

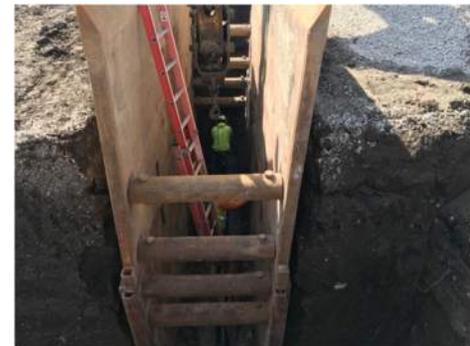
- Large aggregate will be used for haul roads and access roads within the site to reduce soil dusting.
- SWPPP compliant construction entrance is installed which mitigates material tracking onto public roadways.



- **Communication**
 - Establish a single point of contact for communication with the City of Chicago Building Department inspectors based on their desired frequency.
 - Provide emergency contact list for direct communication with Building Department and Alderman's office.
 - Designate a single point of contact for neighborhood outreach.
- **Record of Watering**
 - Daily tracking of watering efforts.
- **Record of Street Sweeping**
 - Daily records kept for on site and off site sweeping.
- **Single Construction Site Entrance**
 - Single entry and exit point will be used to ensure control vehicular traffic and migrating soil onto the roadway.
- **Air Quality Management Program**
 - Provide four (4) air monitoring stations to be placed at the site perimeter to monitor and record levels of materials to the extent such materials reach the site perimeter due to incidental and unforeseeable weather and / or wind movement.
 - Provide confirmation of dust control plan.
 - Provide record of air quality related to site activities.
- **Truck Management**
 - All trucks will be required to take the most direct route on and off the site.
 - All trucks entering and leaving the Site will adhere to a speed limit of no more than 8 mph.
 - All trucks leaving the site, whether full or empty, will be visually inspected for loose material.
 - All trucks shall adhere to the tarping policy.
 - All trucks will be required to be rinsed down before they leave the site to ensure debris and dust are not carried on to neighboring roadways.



- Utilize watering trucks during cut and fill operation to reduce dust.
- Reduce operation during high wind events.
- Minimize vehicle traffic on the building pad during mass excavation.
- Limit equipment speed to lower than normal speeds to reduce dust.
- Visually inspect trucks importing or exporting materials to contain all soil within the site.
- Manage stone and asphalt truck deliveries so that all staging is done within the site boundaries.
- Water pavement stone placement as required to suppress dust.
- Provide additional street sweeping during sewer & water stone import durations.
- Manage deliveries to avoid ROW obstructions
- Schedule sitework to minimize the number of potential dust generating activities being performed.
- Deploy additional pumping equipment to move casual water off of work areas to avoid mud transfer.
- Install asphalt binder at the earliest opportunity to cap soil which reduces dust potential.
- Early under slab stone placement. Creates a barrier for wind generated dust.



Purpose

- Stabilize the existing soils to construct the building pad and parking areas.
- Reduce the moisture holding capacity of the existing soils.
- This soil treatment is required in order to improve constructability and load-bearing capacity of the existing soils.

Process

- Add lime to the wet soil to generate long-term strength gain.
- Lime is added to the existing soils through pulverization which thoroughly combines the lime and soil.
- After the lime/soil mixing is complete the soil is compacted and the process is performed again on the next lift of materials placed the pad elevation is achieved.
- Lime stabilization creates dust which is controlled through proper application process and watering of the work areas. We will provide **double the required** amount of water equipment to ensure dust is controlled within the stabilization zone.

