



March 7, 2023

**Ms. Maureen Hatfield, P.G.**

Texas Commission on Environmental Quality

MC-127

VCP-CA Section, Team 1, Remediation Division

P.O. Box 13087

Austin, Texas 78711-3087

**RE: WEEKLY STATUS UPDATE – ENGLEWOOD YARD NORTH BYPASS PROJECT  
UNION PACIFIC RAILROAD HOUSTON WOOD PRESERVING WORKS SITE  
4910 LIBERTY ROAD FACILITY, HOUSTON, TEXAS  
POST-CLOSURE CARE PERMIT NO. 50343, INDUSTRIAL SWR NO. 31547**

Dear Ms. Hatfield:

WSP USA Inc. (WSP) on behalf of Union Pacific Railroad (UPRR), prepared this weekly status update for the Englewood Yard North By-Pass Project (the Project) that includes areas of construction within the UPRR Houston Wood Preserving Works (HWPW) site (the Site) (Post-Closure Care Permit No. 50343) located at 4910 Liberty Road, Houston, Texas. Below is a summary of the Project activities conducted at the Site for the reporting period:

**Week Period:** *February 27 through March 5, 2023*

Activities that resulted in the generation of excavated soils for this weekly period include repairs made to the Asphalt Road Cap.

**Dust Control and Air Monitoring**

- IHST conducted real time air and dust monitoring at the site in accordance with TCEQ approved Air Monitoring Plan dated July 2021. The real-time results for this period are provided in **Attachment A**.
- As indicated in the IHST Weekly Report (**Attachment A**), there were no events where PM 2.5 and PM 10 readings increased above the Take-Action Level or Stop-Work Level during the monitoring period. Samples were not collected for this period, with excavation activities only occurring on February 27 and 28, 2023.

**Soil Management**

Approximately 20 cubic yards (CY) of soil classified as hazardous waste were generated during the asphalt repair activities within the HWPW Asphalt Cap area. The soils generated from the HWPW Asphalt Cap area were direct-loaded into a front end loader and deposited into a lined roll-off container

with secondary confinement located in the HWPW Container Storage Area (CSA) pending transport to the Disposal Facility (TSDF) in Robstown, TX for disposal.

**Stormwater Management**

There was no rainfall during this reporting period that resulted in management of stormwater within the site.

Planned Construction Activities for the period between **March 6, 2023 and March 12, 2023** include continuing repairs where potholes have the potential to develop on the Asphalt Cap at the connection where the asphalt roadway was extended for newly constructed Signal Houses as part of the Project.

**Dust Control and Air Monitoring**

Air monitoring per the approved Air Monitoring Plan (July 8, 2021) will continue to be conducted as soil excavation activities are taking place.

**Soil Management**

Managing excavated soils, in the event excavated soils are generated, within the Site will follow the approved Soil Management Plan (SMP).

**Stormwater Management**

Stormwater management, in the event of rainfall in the area, per the approved Storm Water Pollution Prevention Plan (SWPPP) will be conducted.

If you have any questions or need additional information, please feel free to contact Mr. Kevin Peterburs of UPRR at (414) 267-4164.

Sincerely,

**WSP USA Inc.**



Anthony Reid, P.G.  
*Sr. Consultant Geologist*



Eric Matzner, P.G.  
*Practice Leader/Principal*

**ATTACHMENT A**

## **Weekly Report of Air Monitoring**



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## Weekly Report of Air Monitoring

### Union Pacific Railroad North Bypass Construction Project

Former Houston Wood Preserving Works Site  
Houston, TX

For Period from 2023-02-27 to 2023-03-05

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## Summary Results of Daily Dust Monitoring

This section provides overall summary results for perimeter dust monitoring conducted during the week specified. Dust monitoring results include the average PM 2.5 and PM 10 monitoring results over the sample period at each sample location for each day. Each day's summary provides also includes a description of the work activities performed that day, and any items, issues or occurrences of note.

The 24-hour USEPA National Ambient Air Quality Standard (NAAQS) for PM 2.5 particulate matter is 35 ug/m<sup>3</sup>, and 150 ug/m<sup>3</sup> for PM 10 particulate matter. The Texas Department of Environmental Quality (TCEQ) has adopted these values. UPRR has established dust control levels for railroad construction activities to help ensure that particulate levels do not exceed the 24-hour NAAQS as a result of construction activities.

Overall averages provided are for the sample period specified by the start and stop times. Unless otherwise specified, the sample periods are inclusive of all potentially significant dust generating activities.

Location of air sampling stations are consistent the Dust Control and Air Monitoring Plan dated 7/8/2021 and approved by the Texas Commission on Environmental Quality (TCEQ). Minor variations in station placement may occur, based on work activities, environmental factors, observed patterns of dust dispersion and practical constraints. During this week, work on the capped area was limited to repair disccret areas of damaged asphalt located near the center and eastern half of the North Bypass service road. Dust monitoring stations were placed downwind of the work areas for the duration of the work.

No excavation work took place in the capped area of the former Houston Wood preserving works took place on Wednesday through Sunday of this week (Mar 1 – 5, 2023). Dust monitoring data is provided for Monday and Tuesday (Feb 27 – 28, 2023).

## PM 2.5 and PM 10 Daily Summary Results

### Sample Date

Feb 27, 2023

### Description of Work Performed

Work in the capped area consisted of excavation, old asphalt removal and surface prep in discrete areas of damaged asphalt near signal turnouts on North Bypass access road, south side of the capped area, near the east-west center and eastern end of the capped area. Work hours were from approximately 08:00 – 17:05.

### Overview Map of Daily Sample Locations



Station ID	Location Description	Start	Stop	Latitude	Longitude	Overall Average PM 2.5	Overall Average PM 10
AMS-08a	HWPW - Erastus	08:05	13:00	29.78734	-95.31717	15.2 ug/m3	47.5 ug/m3
AMS-10b	HWPW - Lavender South	08:13	17:22	29.78602	-95.32033	11 ug/m3	29.7 ug/m3
AMS-11	HWPW - Lavender South	08:10	14:23	29.78617	-95.32003	15.8 ug/m3	52.6 ug/m3

**Note:** Stations AMS-08a and AMS-11 lost network communication between approximately 13:00 and 14:23. AMS-10b, in immediate proximity to the work area, remained up for the entire duration of the work.



## PM 2.5 and PM 10 Daily Summary Results

### Sample Date

Feb 28, 2023

### Description of Work Performed

Work in the capped area consisted of excavation, old asphalt removal and surface prep in discrete areas of damaged asphalt near signal turnouts on the North Bypass access road, south side of the capped area, near the east-west center and eastern end of the capped area. Work hours were from approximately 08:00 – 16:40.

### Overview Map of Daily Sample Locations



Station ID	Location Description	Start	Stop	Latitude	Longitude	Overall Average PM 2.5	Overall Average PM 10
AMS-06b	HWPW - Solo South	08:02	14:46	29.78601	-95.32061	17.6 ug/m3	47.2 ug/m3
AMS-08a	HWPW - Erastus	09:45	16:40	29.78734	-95.31717	19.2 ug/m3	48.5 ug/m3
AMS-11	HWPW - Clementine South	08:07	17:04	29.78667	-95.31907	19.5 ug/m3	50.1 ug/m3
AMS-13a	HWPW - Lavender South	10:09	16:57	29.78622	-95.32034	20.6 ug/m3	51.6 ug/m3

**Note:** Stations AMS-06b lost network communication at approximate 14:46. All other stations remained up for the entire duration of the work.



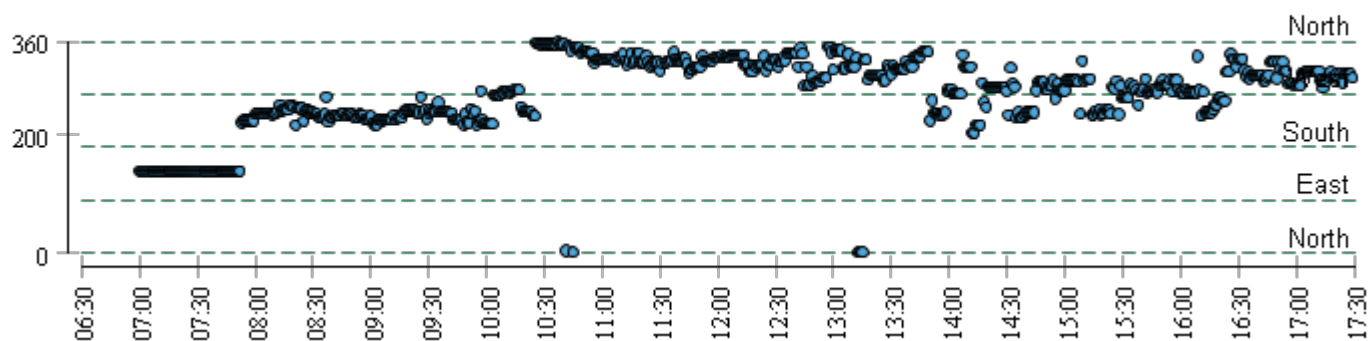
## Summary Results of Daily Weather Conditions

This section provides charts showing wind speed, wind direction and rainfall during each day of sampling during the specified week.

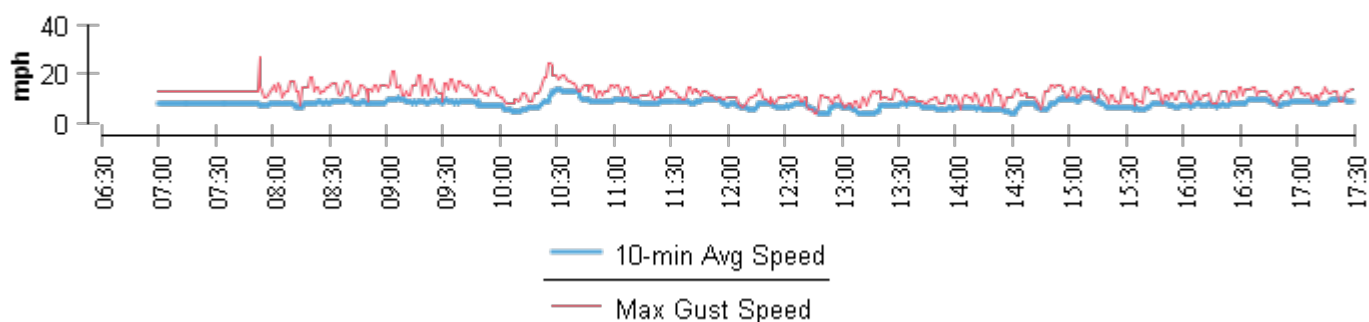
## Weather Time History Data

Sample Date Feb 27, 2023

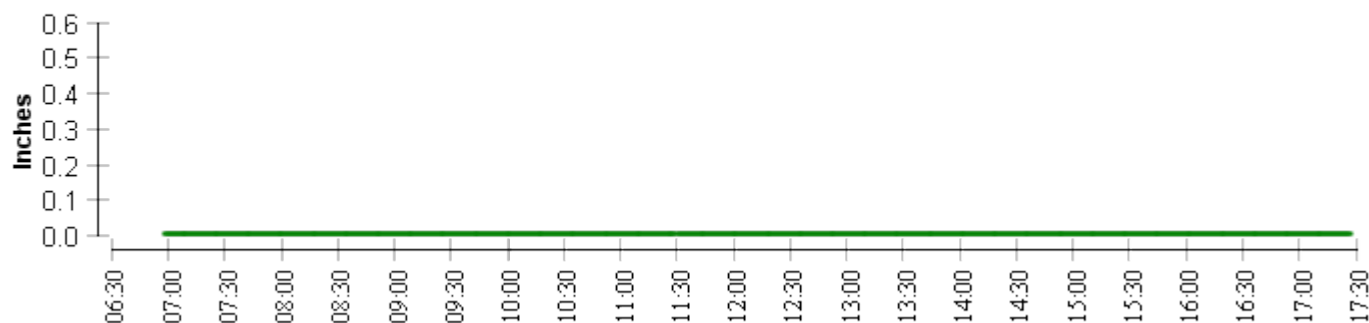
Wind Direction (10 min average)



Wind Speed



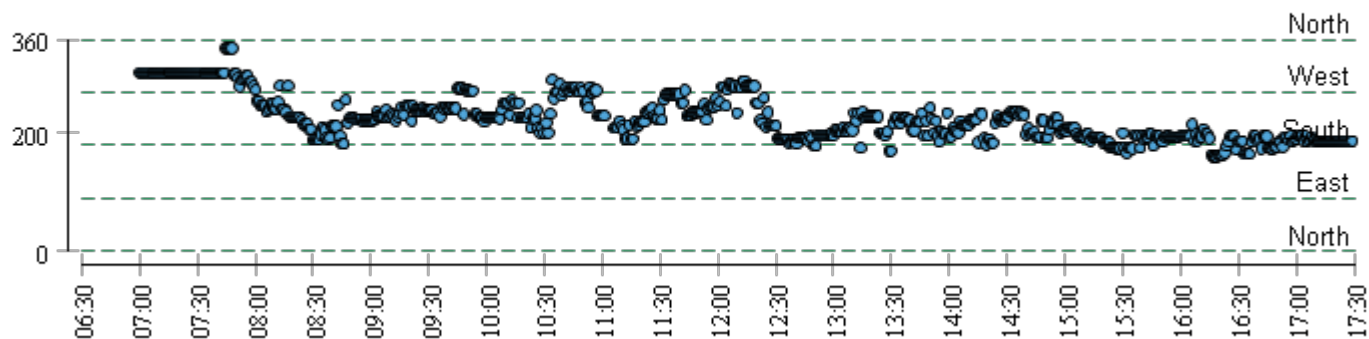
Cumulative Daily Rainfall



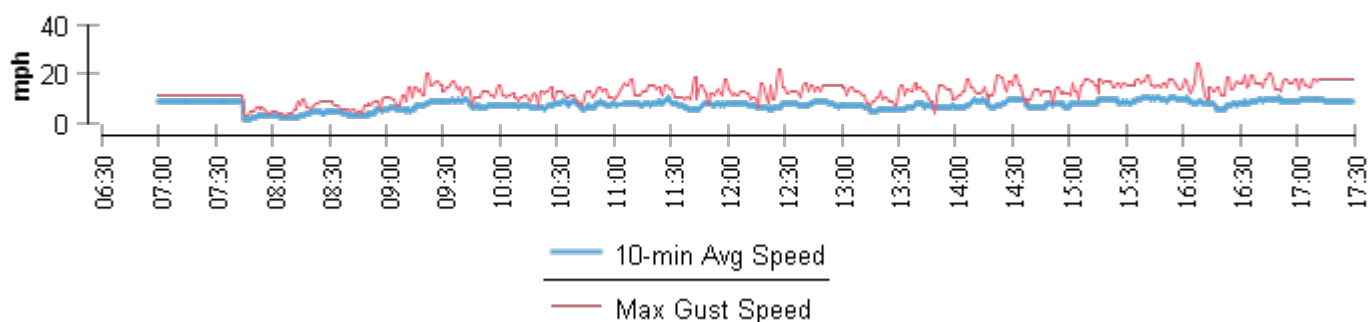
## Weather Time History Data

Sample Date Feb 28, 2023

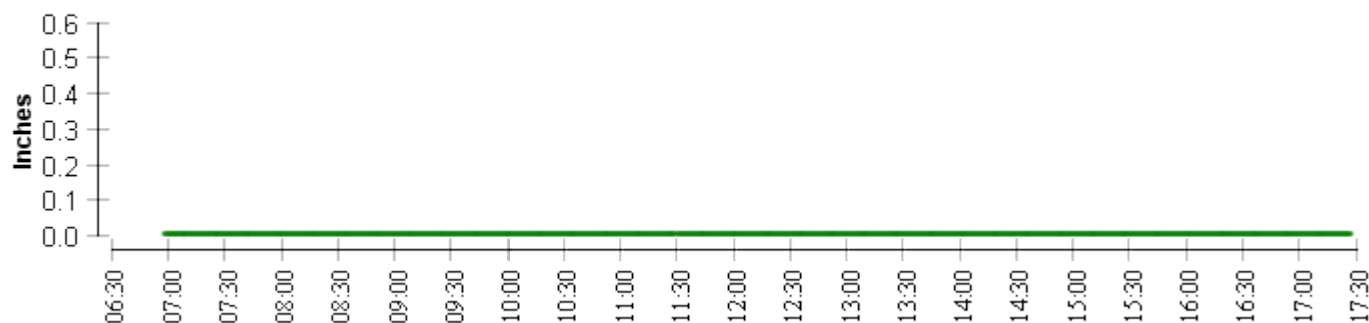
Wind Direction (10 min average)



Wind Speed



Cumulative Daily Rainfall



## Daily Time History Detail for PM 2.5 and PM 10 Dust Levels

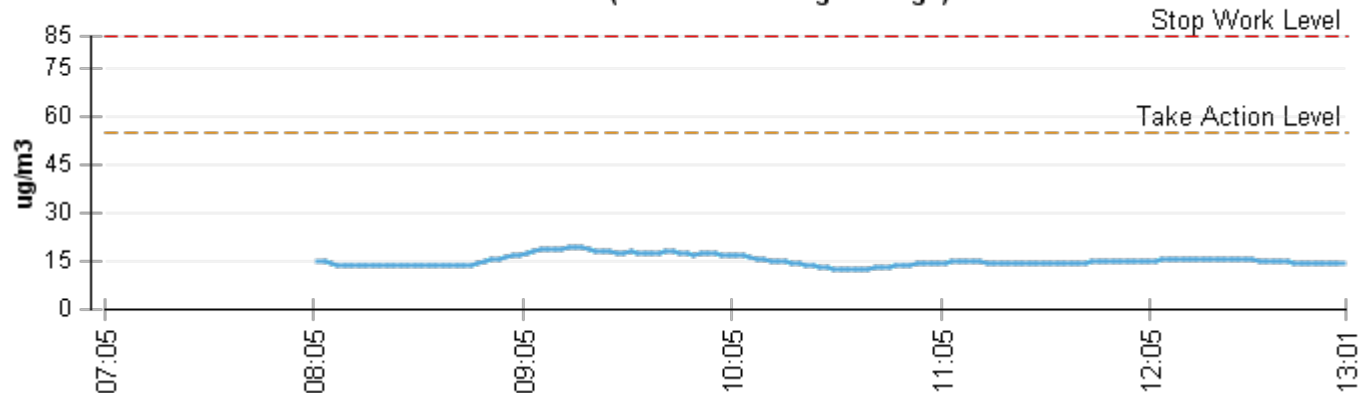
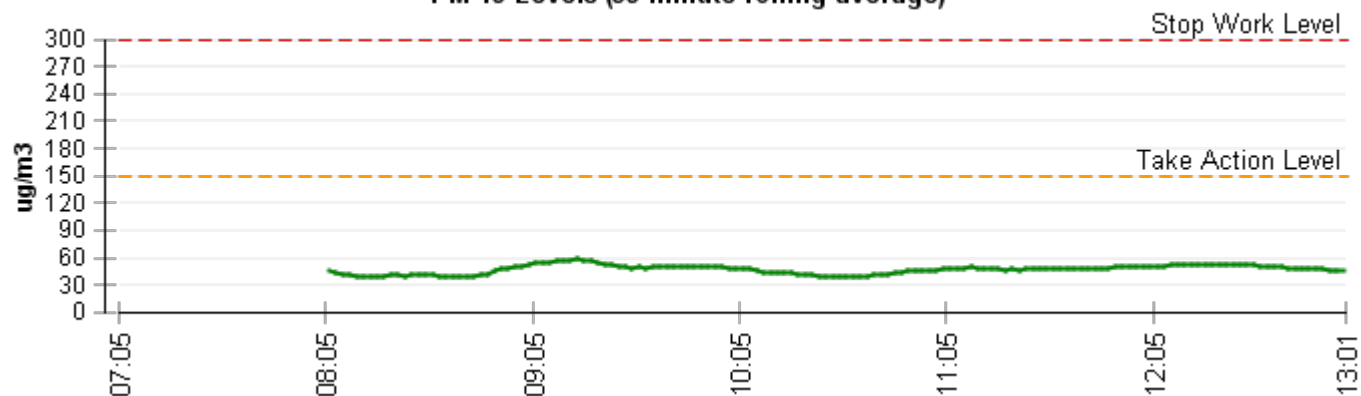
This section provides charts showing the rolling thirty-minute average concentrations of PM 2.5 and PM 10 particulates measured at each location on each sample day during the specified week.

PM 2.5 and PM 10 airborne particulate levels are measured every two minutes during the active sampling period. The charts track the average particulate concentrations over the past 30 minutes at the time of the measurement.

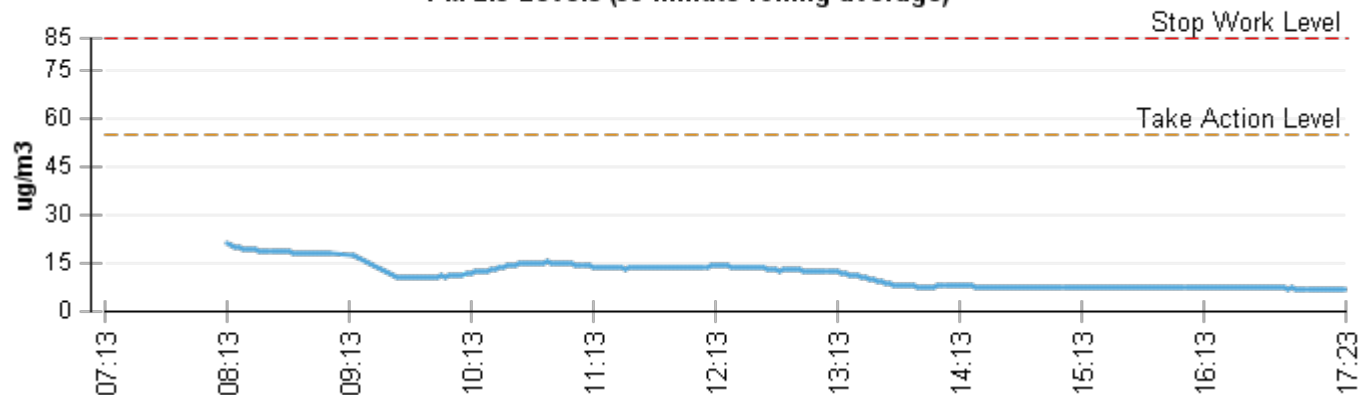
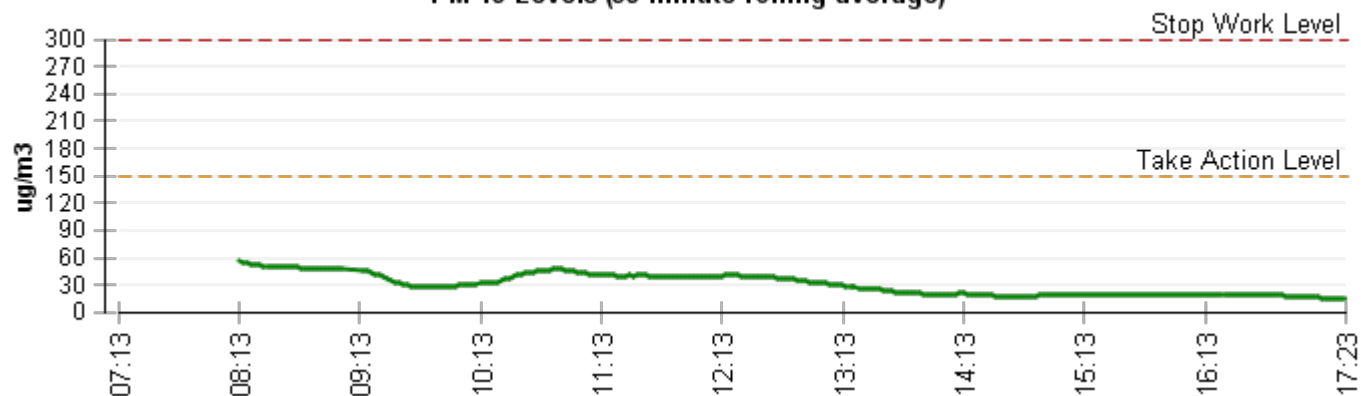
Union Pacific Railroad (UPRR) has established control levels for airborne particulates to help ensure that construction-related dust levels are adequately controlled. These levels are explained as follows:

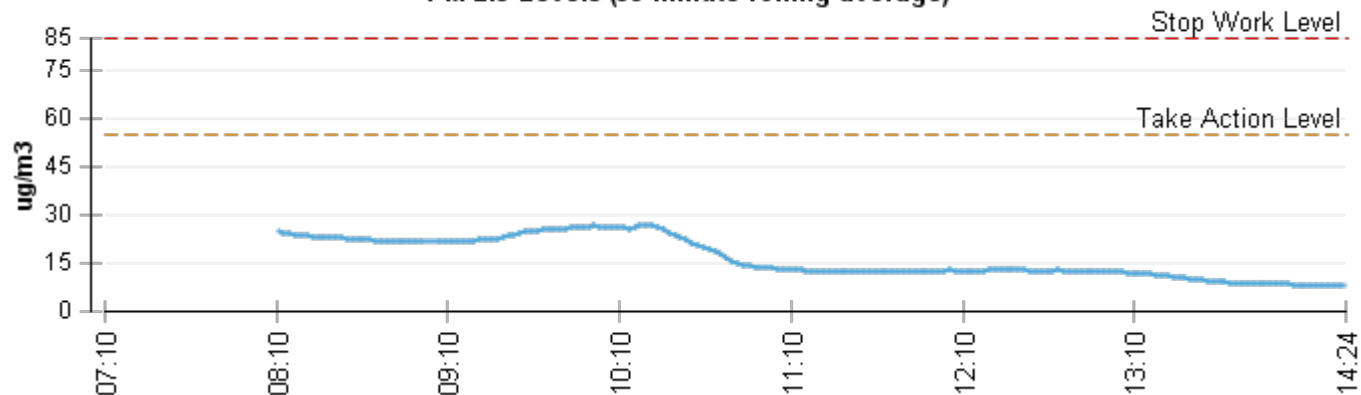
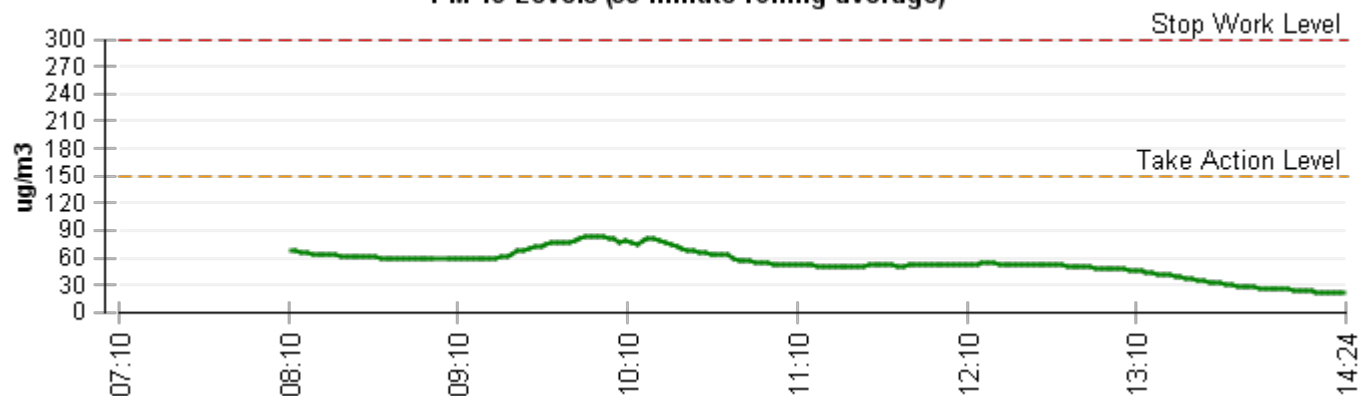
- Take-Action Level - 30-minute average dust concentrations  $>55 \text{ ug/m}^3$  (PM 2.5) or  $>150 \text{ ug/m}^3$  (PM 10)  
Additional dust control measures, as outlined in the site dust control plan, will be promptly implemented to reduce levels below the Take-Action Level.
- Stop-Work Level - 30-minute average dust concentrations  $>85 \text{ ug/m}^3$  (PM 2.5) or  $>300 \text{ ug/m}^3$  (PM 10)  
Work will be stopped immediately, as outlined in the site dust control plan, and UPRR will evaluate dust control measures. Work will not resume until UPRR has implemented additional controls that will effectively prevent generation of dust levels above the Stop-Work Level.

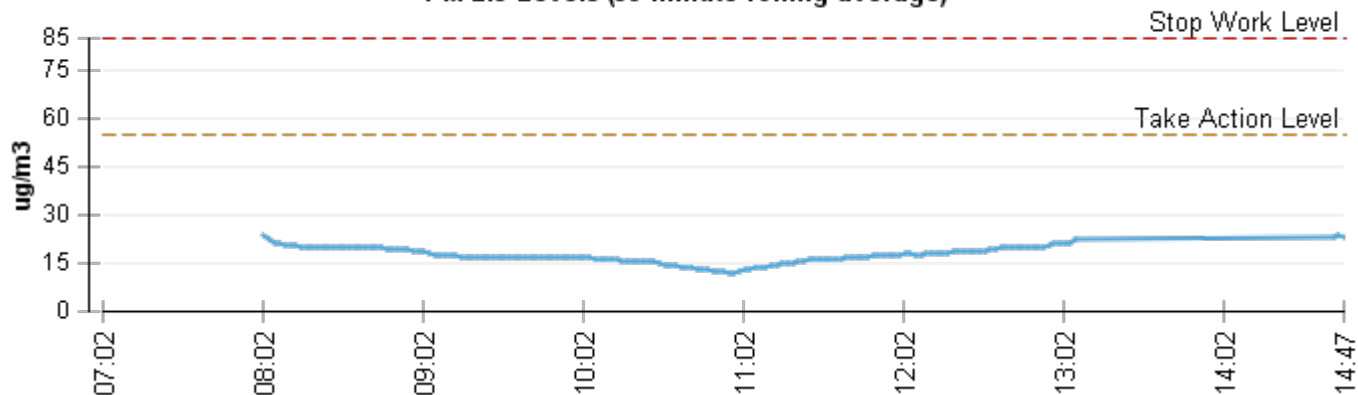
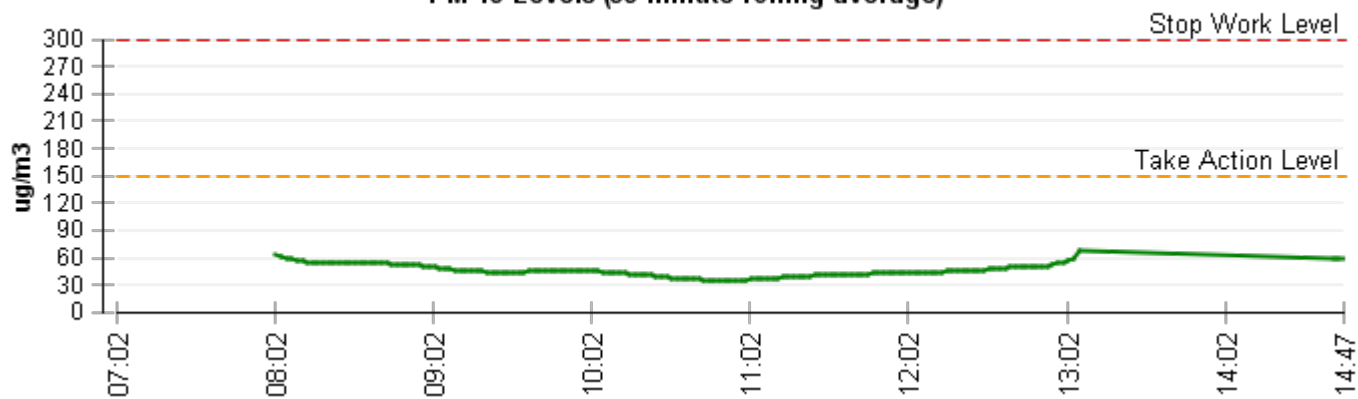
Air monitoring stations may exhibit higher than actual readings during the first 5 - 10 minutes after startup, before the instrumentation has fully warmed up. This is a known and expected behavior of the instrumentation.

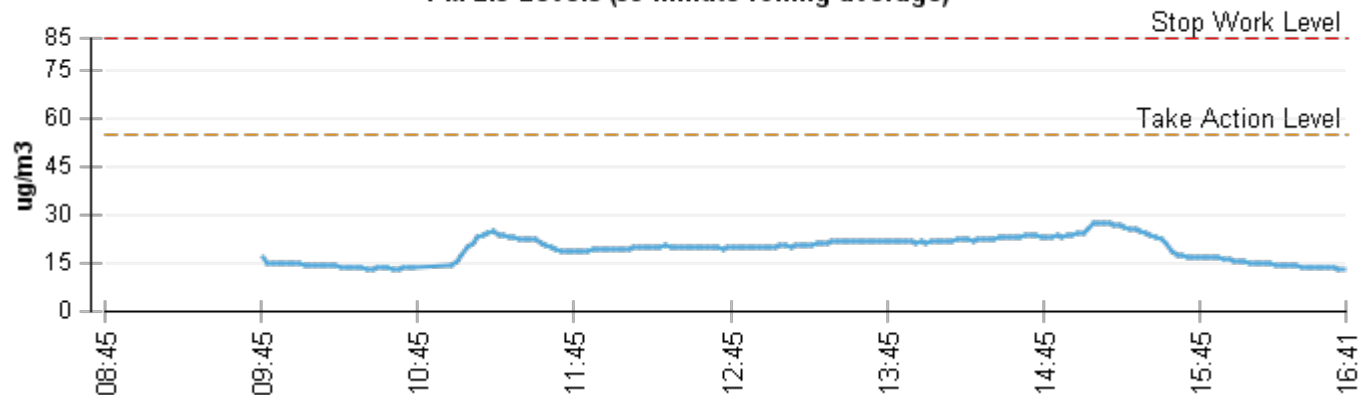
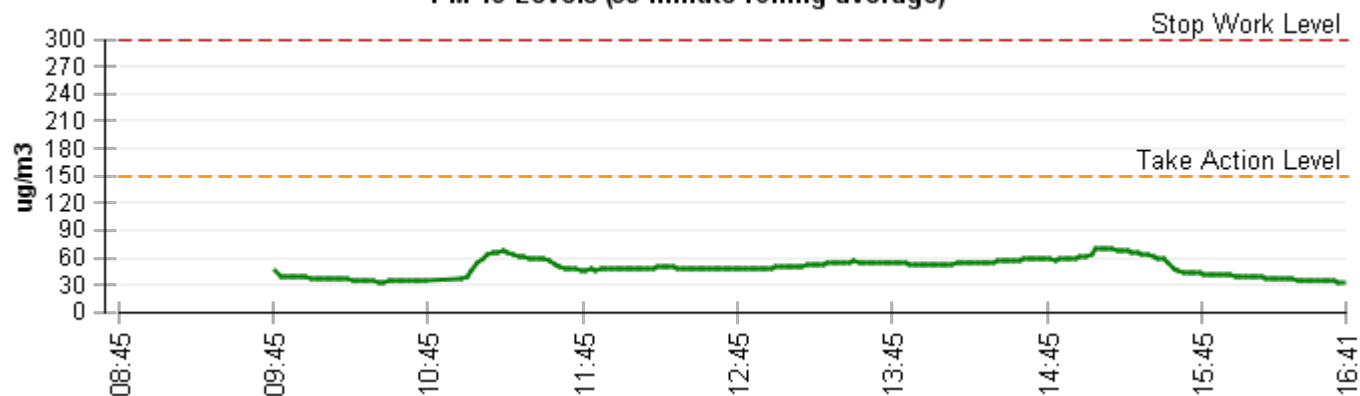
**PM 2.5 and PM 10 Time History Data****Sample Date** Feb 27, 2023**Station ID** AMS-08a  
**Location Description** 29.78734, -95.31717 - HWPW - Erastus**PM 2.5 Levels (30-minute rolling average)****PM 10 Levels (30-minute rolling average)**

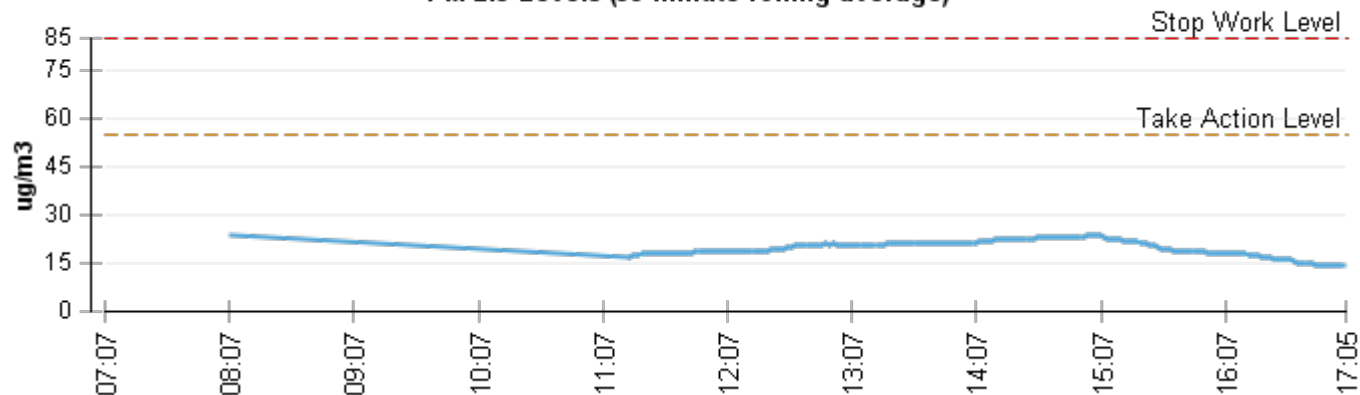
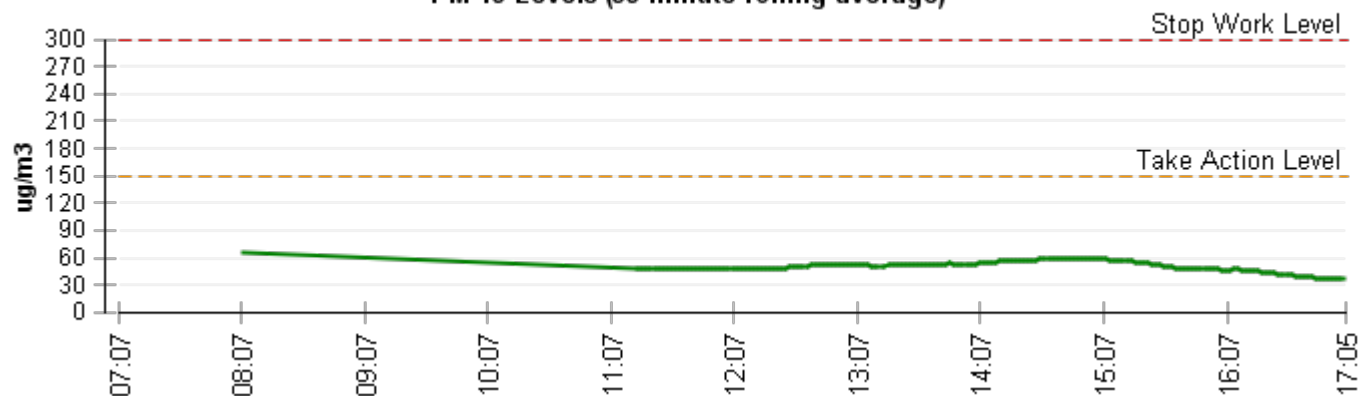


**PM 2.5 and PM 10 Time History Data****Sample Date** Feb 27, 2023**Station ID** AMS-10b  
**Location Description** 29.78602, -95.32033 - HWPW - Lavender South**PM 2.5 Levels (30-minute rolling average)****PM 10 Levels (30-minute rolling average)**

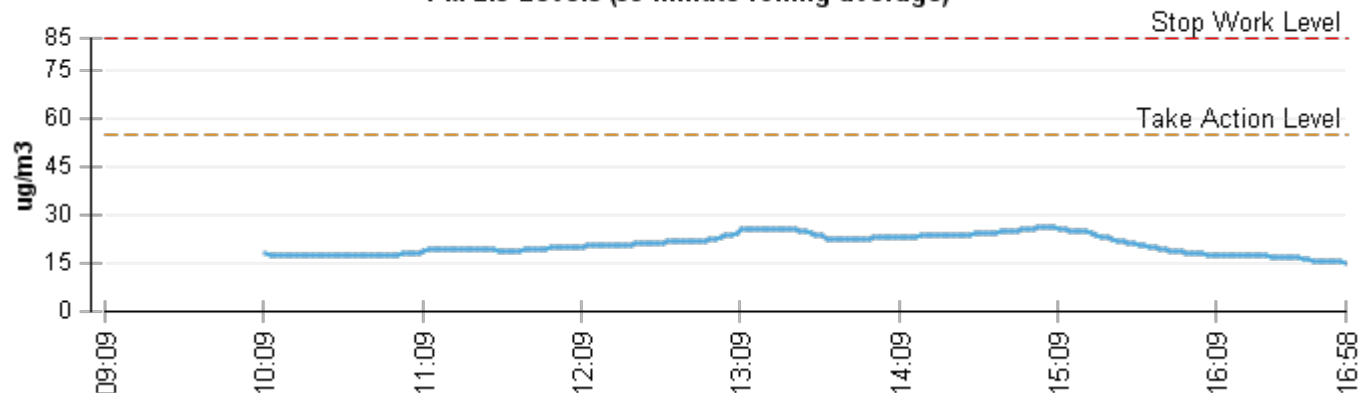
**PM 2.5 and PM 10 Time History Data****Sample Date** Feb 27, 2023**Station ID** AMS-11  
**Location Description** 29.78617, -95.32003 - HWPW - Lavender South**PM 2.5 Levels (30-minute rolling average)****PM 10 Levels (30-minute rolling average)**

**PM 2.5 and PM 10 Time History Data****Sample Date** Feb 28, 2023**Station ID** AMS-06b  
**Location Description** 29.78601, -95.32061 - HWPW - Solo South**PM 2.5 Levels (30-minute rolling average)****PM 10 Levels (30-minute rolling average)**

**PM 2.5 and PM 10 Time History Data****Sample Date** Feb 28, 2023**Station ID** AMS-08a  
**Location Description** 29.78734, -95.31717 - HWPW - Erastus**PM 2.5 Levels (30-minute rolling average)****PM 10 Levels (30-minute rolling average)**

**PM 2.5 and PM 10 Time History Data****Sample Date** Feb 28, 2023**Station ID** AMS-11  
**Location Description** 29.78667, -95.31907 - HWPW - Clementine South**PM 2.5 Levels (30-minute rolling average)****PM 10 Levels (30-minute rolling average)**



**PM 2.5 and PM 10 Time History Data****Sample Date** Feb 28, 2023**Station ID** AMS-13a  
**Location Description** 29.78622, -95.32034 - HWPW - Lavender South**PM 2.5 Levels (30-minute rolling average)****PM 10 Levels (30-minute rolling average)**