December 20, 2022

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:

Golder Associates USA Inc., a member of WSP (WSP Golder), 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: *December 12 through December 18, 2022*

Construction activities performed during this reporting period did not involve excavation of soils within the HWPW Site. However, construction activities did include the installation of a new track in the Rail Ballast Cap adjacent to the south of the Asphalt Road Cap. Track installation occurred on December 13, 2022.

Dust Control and Air Monitoring

IHST conducted real time air and dust monitoring at the Site in accordance with the Air Monitoring Plan (July 8, 2021), and the results for this period are provided in **Attachment A.** As indicated in the IHST Weekly Report, there were no events where PM 2.5 or PM 10 readings increased above the Take-Action Level or Stop-Work Level during the monitoring period.

Soil Management

No soil excavation activities were performed during this reporting period within the Site.

Stormwater Management

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

There are no planned Construction Activities for the period between **December 19 and December 25, 2022.**

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

Sincerely,

Golder Associates Inc.

Anthony Reid
Sr. Consultant Geologist

Eric Matzner
Practice Leader/ Principal

ATTACHMENT A

Weekly Report of Air Monitoring

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Leaders in
Quality, Service
and Innovation

Weekly Report of Air Monitoring

Union Pacific Railroad
North Bypass Construction Project

Former Houston Wood Preserving Works Site
Houston, TX

For Period from 2022-12-12 to 2022-12-18

Contents

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/m3, and 150 ug/m3 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.

Note: *Work in the capped area occurred only on Tuesday, 12/13/2022, of this week. Air monitoring data is provided for this day.*

PM 2.5 and PM 10 Daily Summary Results

Sample Date
Dec 13, 2022

Description of Work Performed
A Union Pacific rail gang worked on the North Bypass track, just south of the capped area of the former Houston Wood Preserving Works site, replacing rail on both sides of the track. Work was conducted between the Waco Street overpass and Lockwood Drive overpass. Work involved a full gang of machines and trackmen operating a cribber adzer and installing new rail on wood ties. Work hours were from approximately 02:30 – 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-01	IMY East - Sudan and Harlem	02:53	17:42	29.78421	-95.31768	7.8 ug/m3	22.3 ug/m3
AMS-02a	IMY SE - Clementine	02:47	17:40	29.78202	-95.31924	8.2 ug/m3	23.2 ug/m3
AMS-03a	IMY South - Schweikhardt	02:42	17:34	29.78215	-95.32244	7.6 ug/m3	23 ug/m3
AMS-04b	IMY South - Dan	02:32	17:31	29.78215	-95.32409	3.9 ug/m3	16.1 ug/m3
AMS-05b	IMY South - Waco and Lee	02:26	17:25	29.7821	-95.32561	7 ug/m3	20.4 ug/m3
AMS-06b	HWPW - Erastus	03:04	17:15	29.78758	-95.31671	6.5 ug/m3	20 ug/m3
AMS-07	HWPW - Lavender Soutn	03:14	16:50	29.78718	-95.31992	5.3 ug/m3	17 ug/m3
AMS-08a	HWPW - Solo North	03:19	16:55	29.78745	-95.32115	4.8 ug/m3	16.1 ug/m3
AMS-09	HWPW - Kashmere and Liberty	03:27	17:01	29.78751	-95.32369	4.6 ug/m3	13.4 ug/m3
AMS-10b	HWPW - Eddie and Kashmere	03:34	17:04	29.7864	-95.32379	4.7 ug/m3	13.4 ug/m3
AMS-11	HWPW - Quitman East	03:44	17:09	29.78443	-95.32385	7.4 ug/m3	21.7 ug/m3

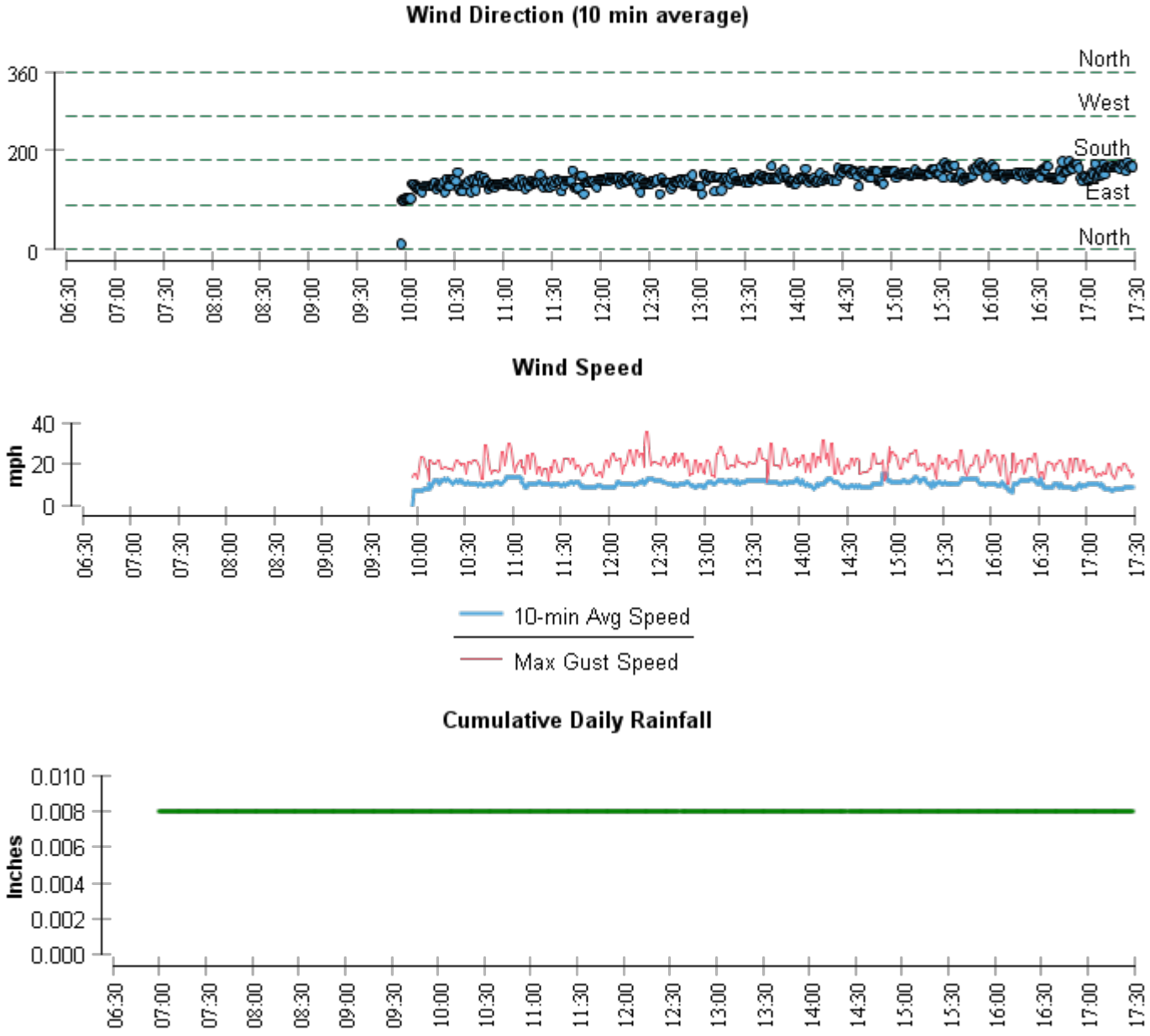
Summary Results of Daily Weather Conditions

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

Note: *Wind speed / direction sensor had filled with rainwater before the start of monitoring on December 13, 2022 and was not functioning in the early to mid-morning. Sensor was restored to service at approximately 09:55.*

Weather Time History Data

Sample Date **Dec 13, 2022**



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.

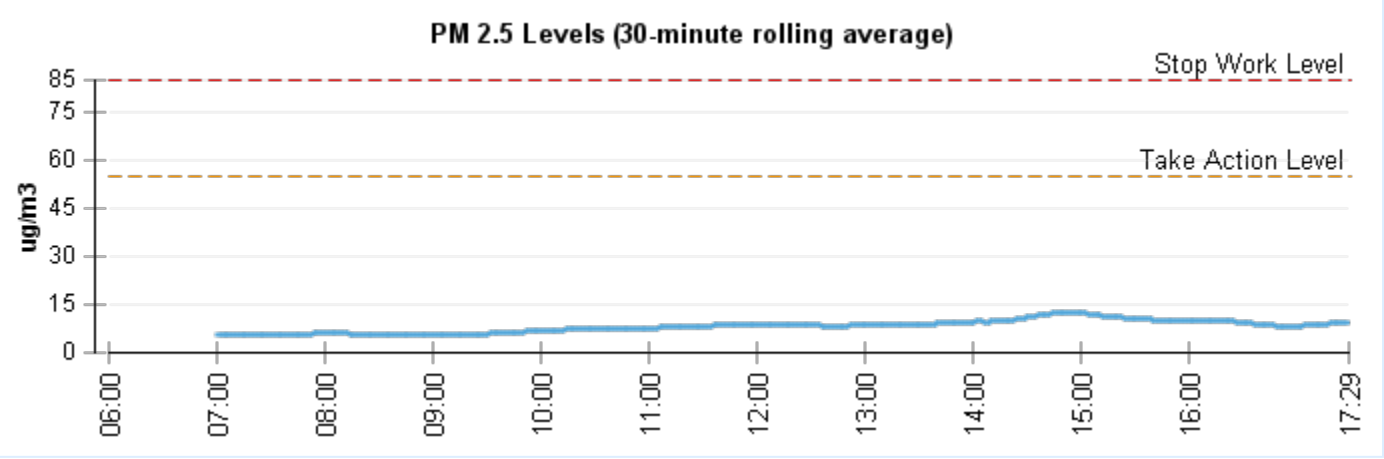
Union Pacific Railroad (UPRR) has established control levels for airborne particulates to help ensure that construction-related dust levels are adequately controlled. These levels are explained as follows:

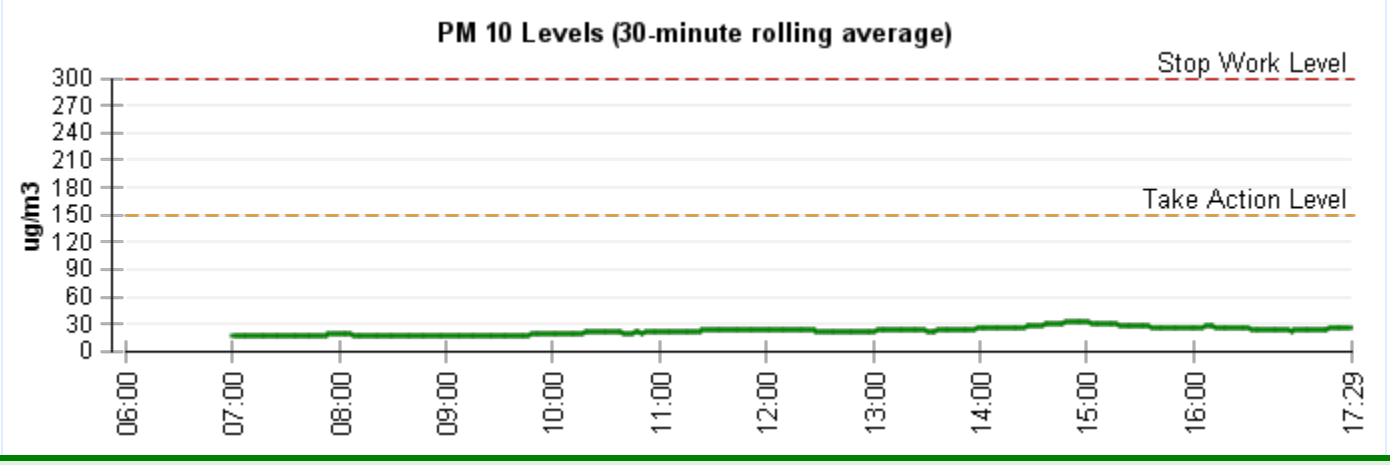
- Take-Action Level - 30-minute average dust concentrations >55 ug/m3 (PM 2.5) or >150 ug/m3 (PM 10) Additional dust control measures, as outlined in the site dust control plan, will be promptly implemented to reduce levels below the Take-Action Level.
- Stop-Work Level - 30-minute average dust concentrations >85 ug/m3 (PM 2.5) or >300 ug/m3 (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

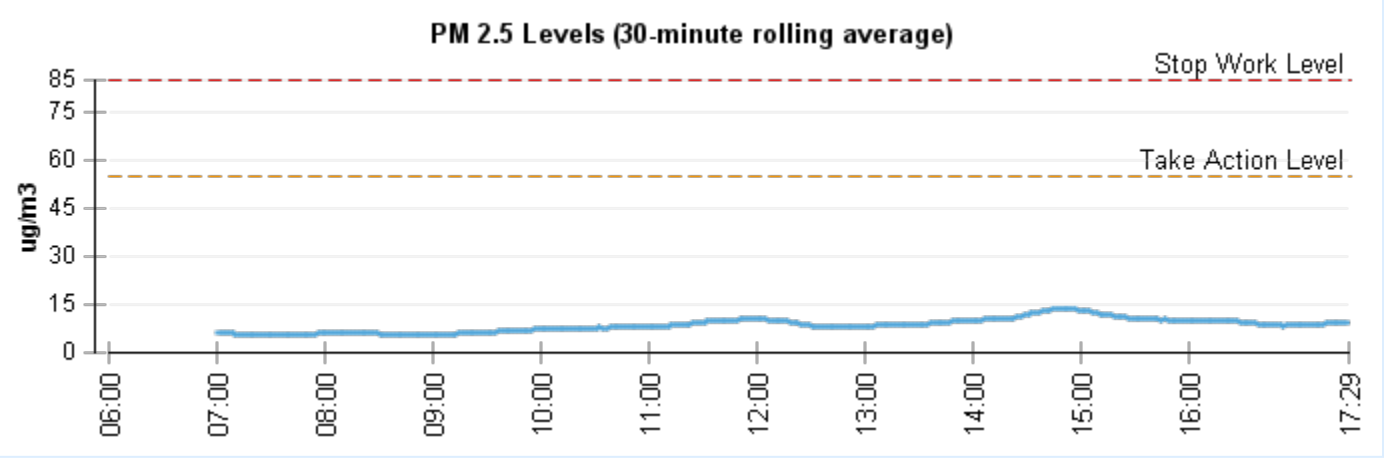
Sample Date	Dec 13, 2022
Station ID AMS-01	**Location Description** 29.78421, -95.31768 - IMY East - Sudan and Harlem

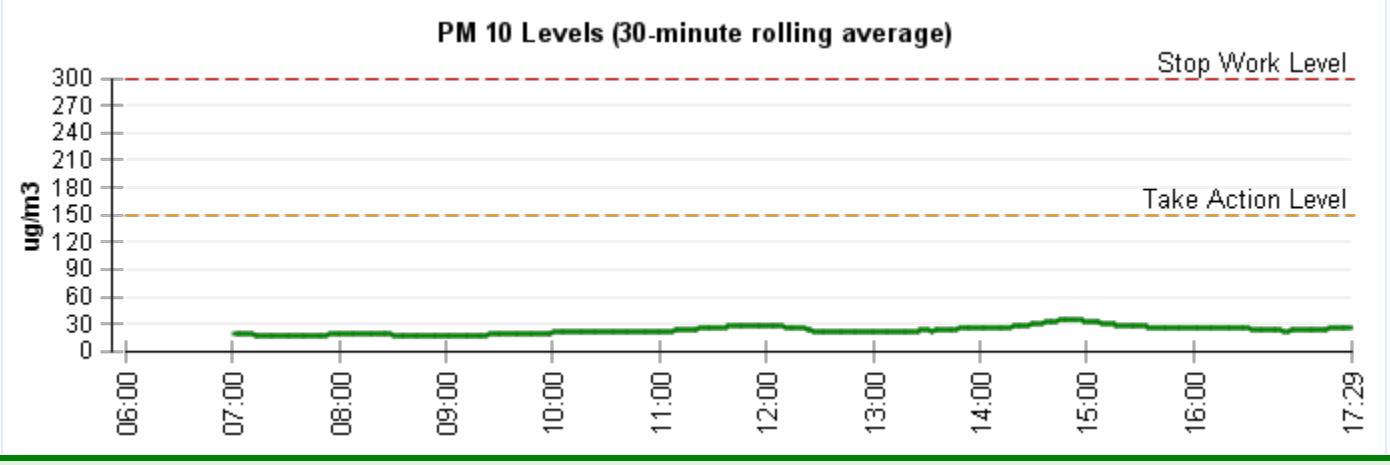




PM 2.5 and PM 10 Time History Data

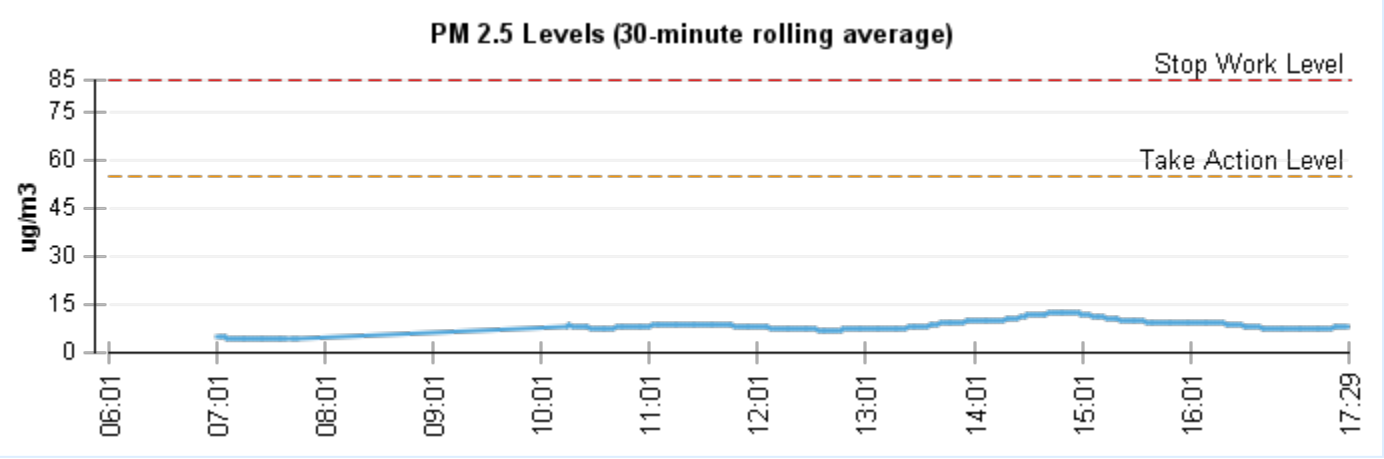
Sample Date	Dec 13, 2022
Station ID AMS-02a	**Location Description** 29.78202, -95.31924 - IMY SE - Clementine

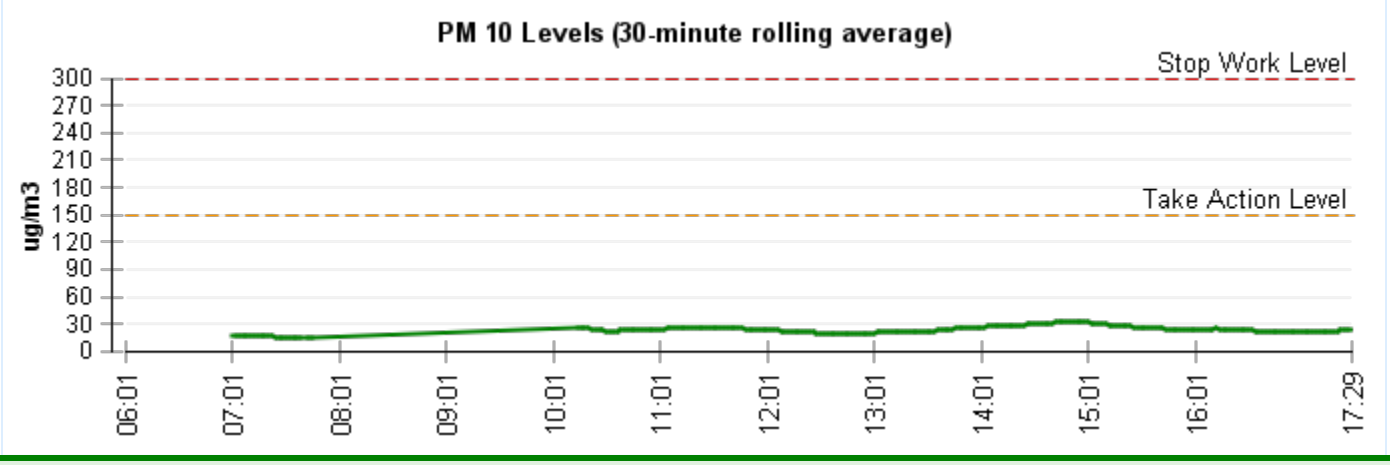




PM 2.5 and PM 10 Time History Data

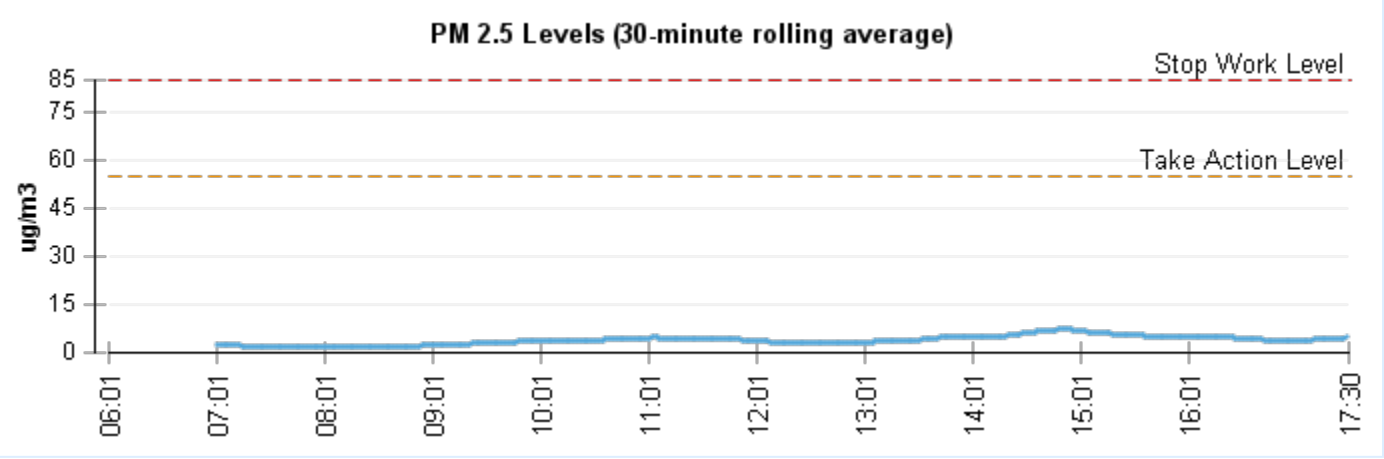
Sample Date	Dec 13, 2022
Station ID AMS-03a	**Location Description** 29.78215, -95.32244 - IMY South - Schweikhardt

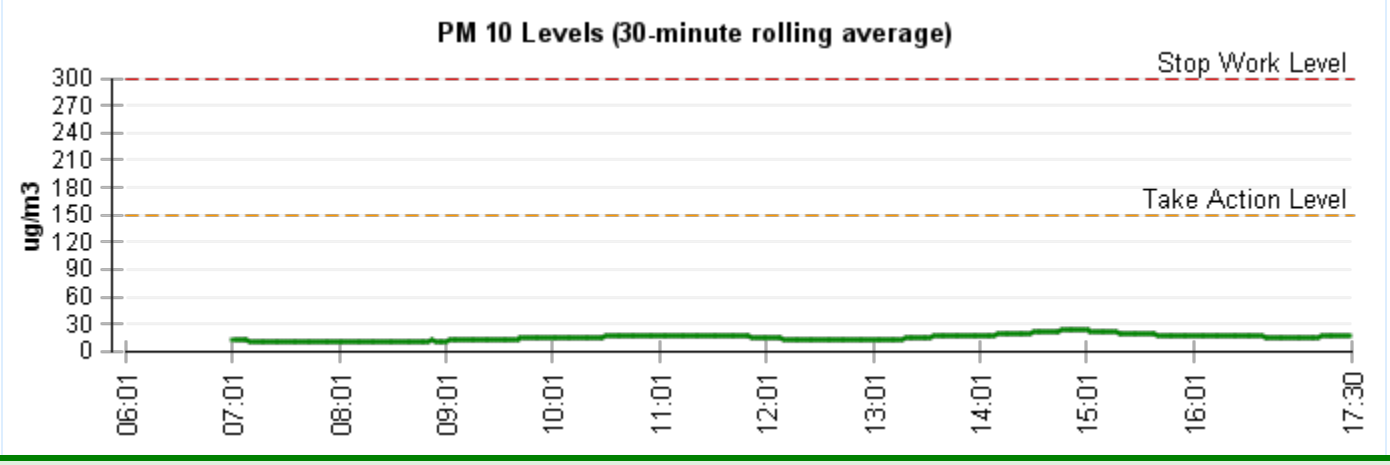




PM 2.5 and PM 10 Time History Data

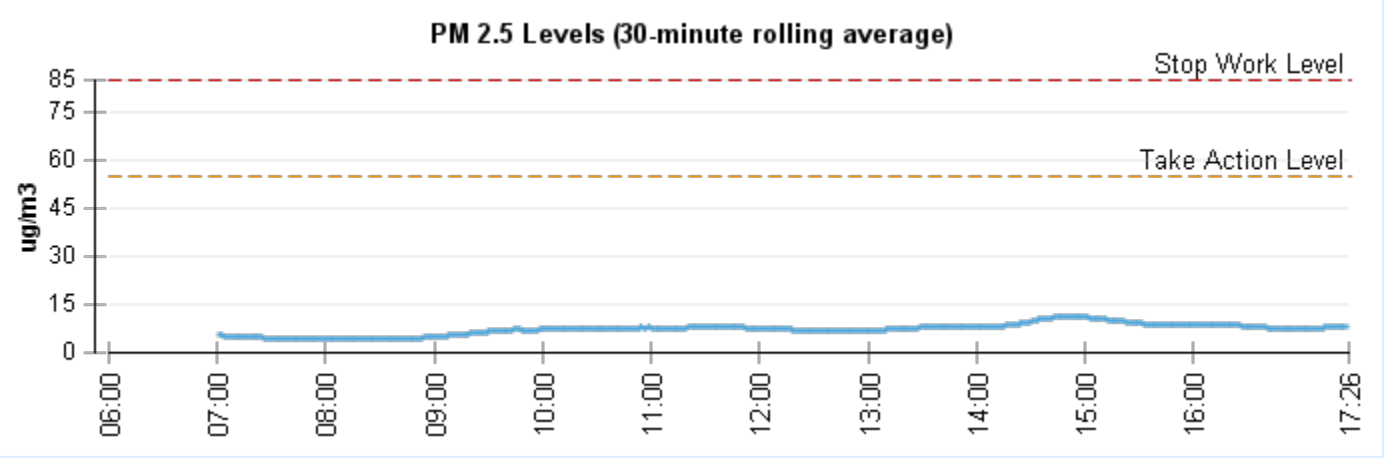
Sample Date	Dec 13, 2022
Station ID AMS-04b	**Location Description** 29.78215, -95.32409 - IMY South - Dan

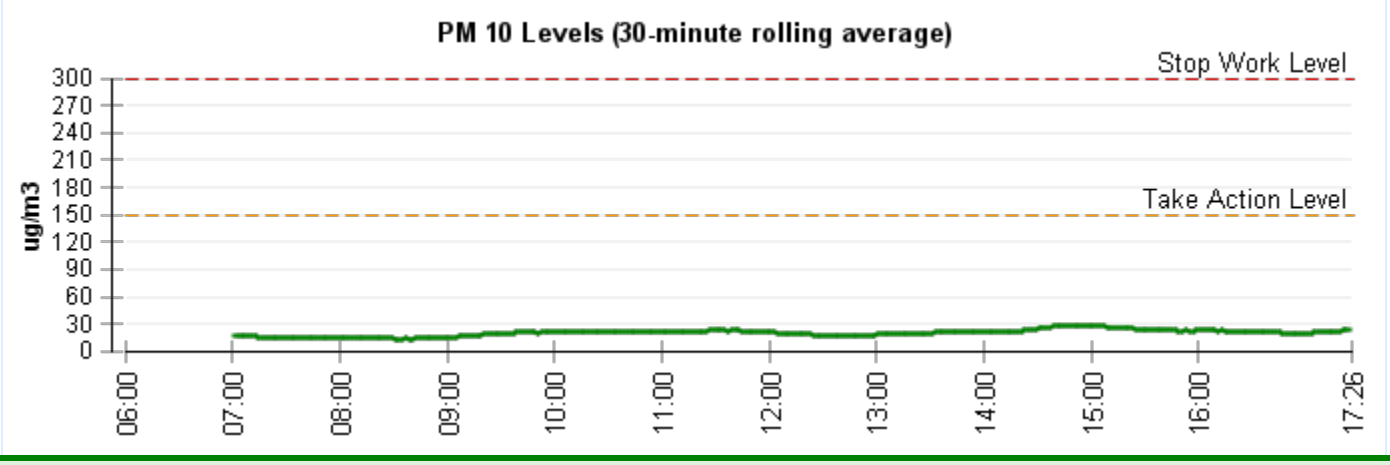




PM 2.5 and PM 10 Time History Data

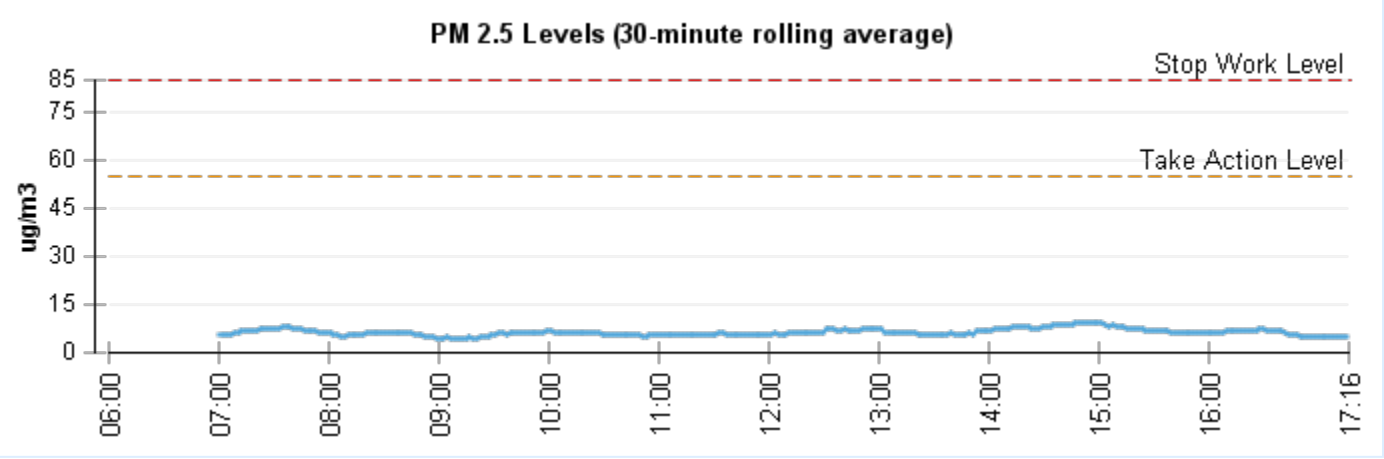
Sample Date	Dec 13, 2022
Station ID AMS-05b	**Location Description** 29.7821, -95.32561 - IMY South - Waco and Lee

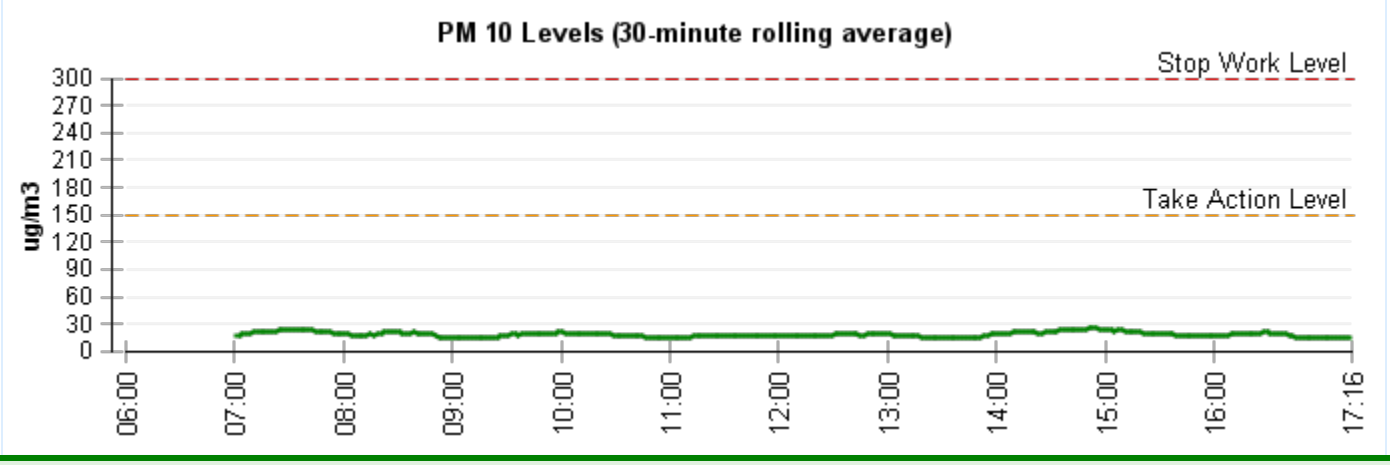




PM 2.5 and PM 10 Time History Data

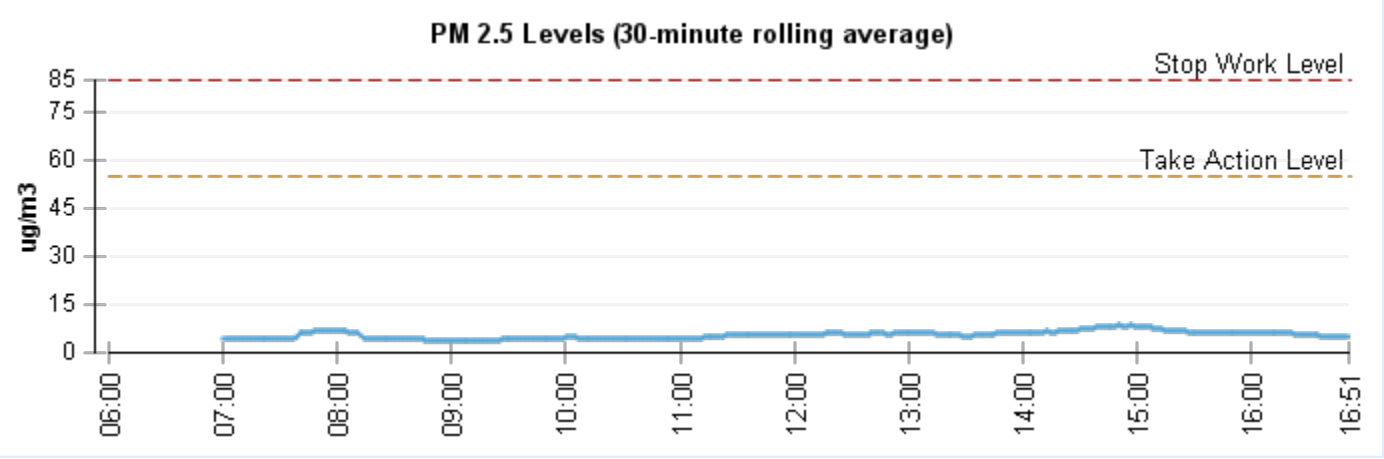
Sample Date	Dec 13, 2022
Station ID AMS-06b	**Location Description** 29.78758, -95.31671 - HWPW - Erastus

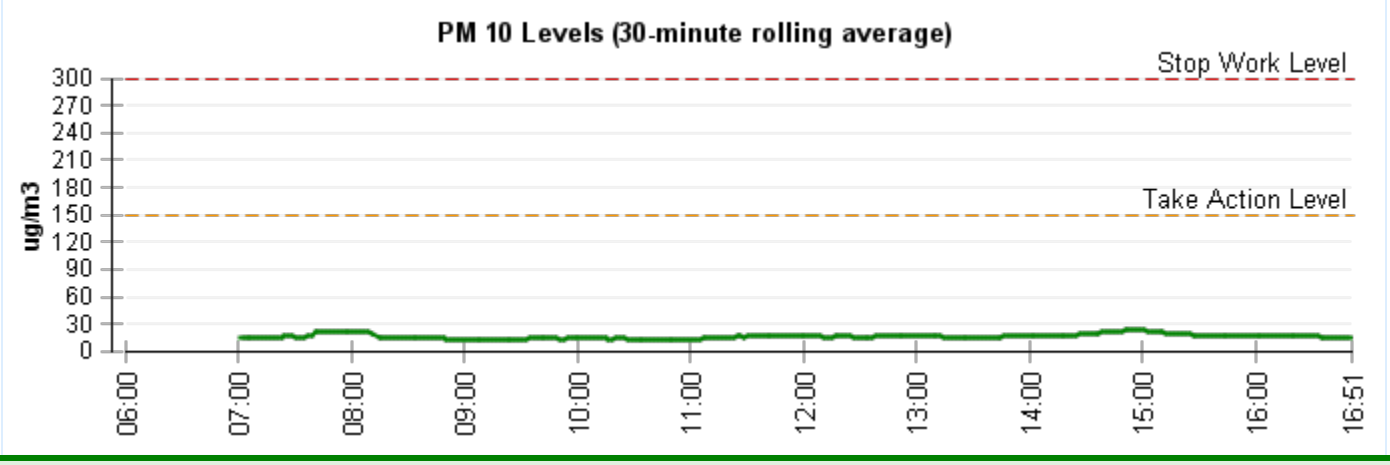




PM 2.5 and PM 10 Time History Data

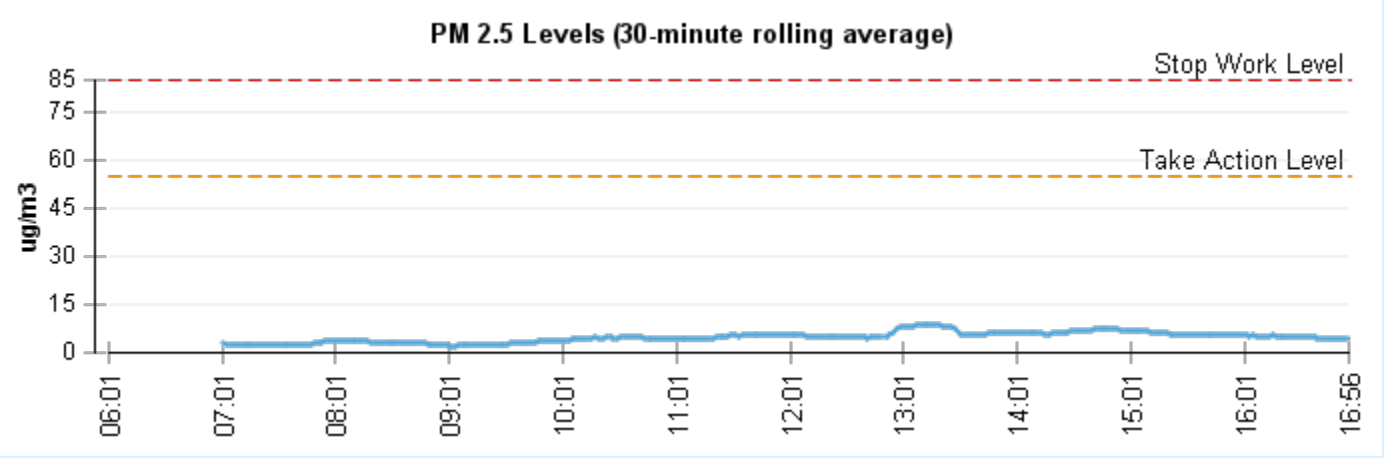
Sample Date	Dec 13, 2022
Station ID AMS-07	**Location Description** 29.78718, -95.31992 - HWPW - Lavender Soutn

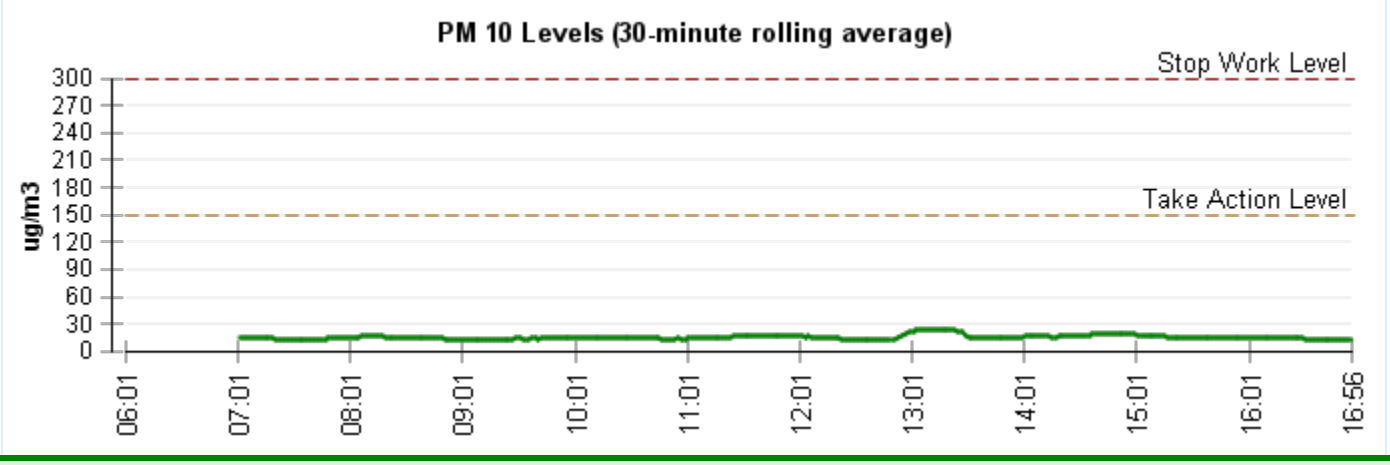




PM 2.5 and PM 10 Time History Data

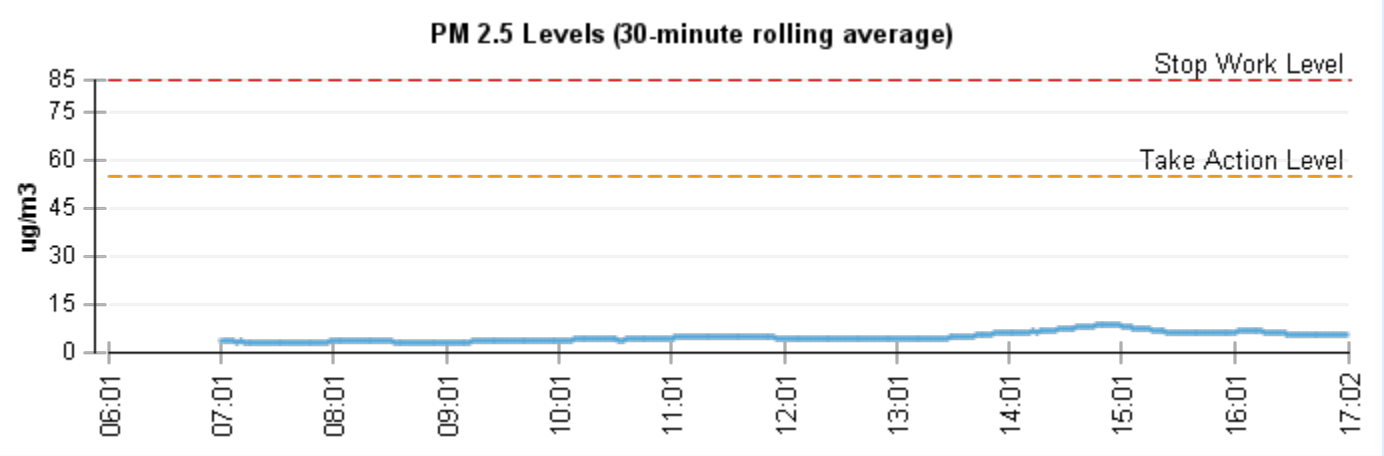
Sample Date	Dec 13, 2022
Station ID AMS-08a	**Location Description** 29.78745, -95.32115 - HWPW - Solo North

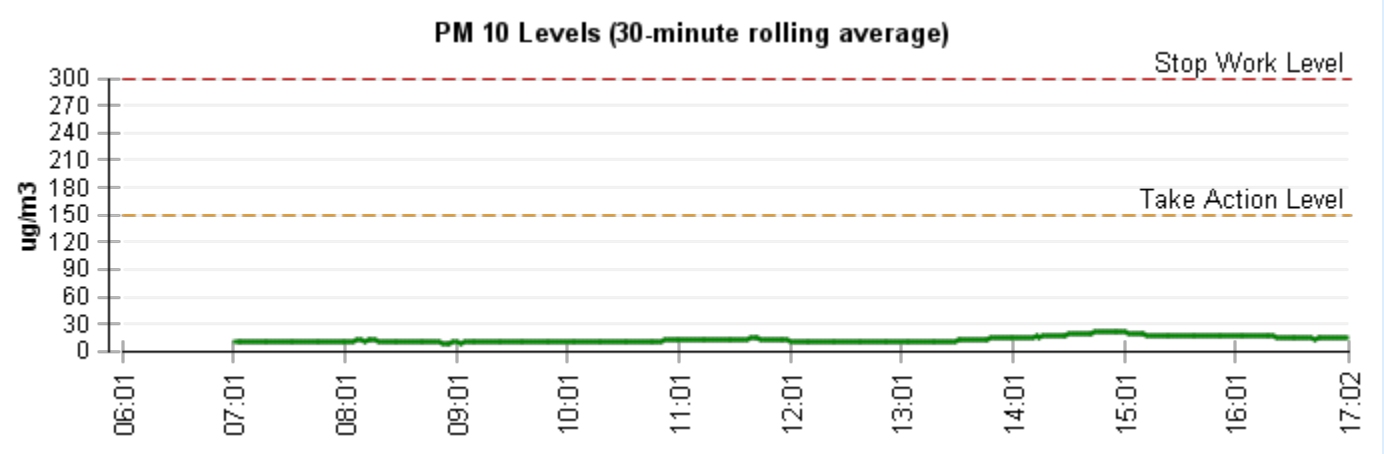




PM 2.5 and PM 10 Time History Data

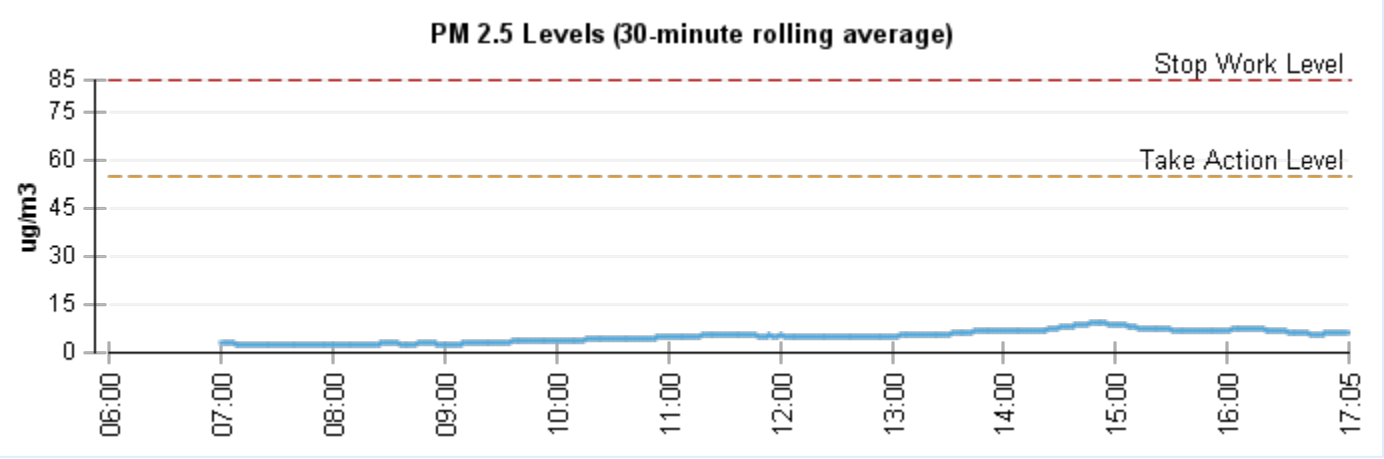
Sample Date	Dec 13, 2022
Station ID AMS-09	**Location Description** 29.78751, -95.32369 - HWPW - Kashmere and Liberty

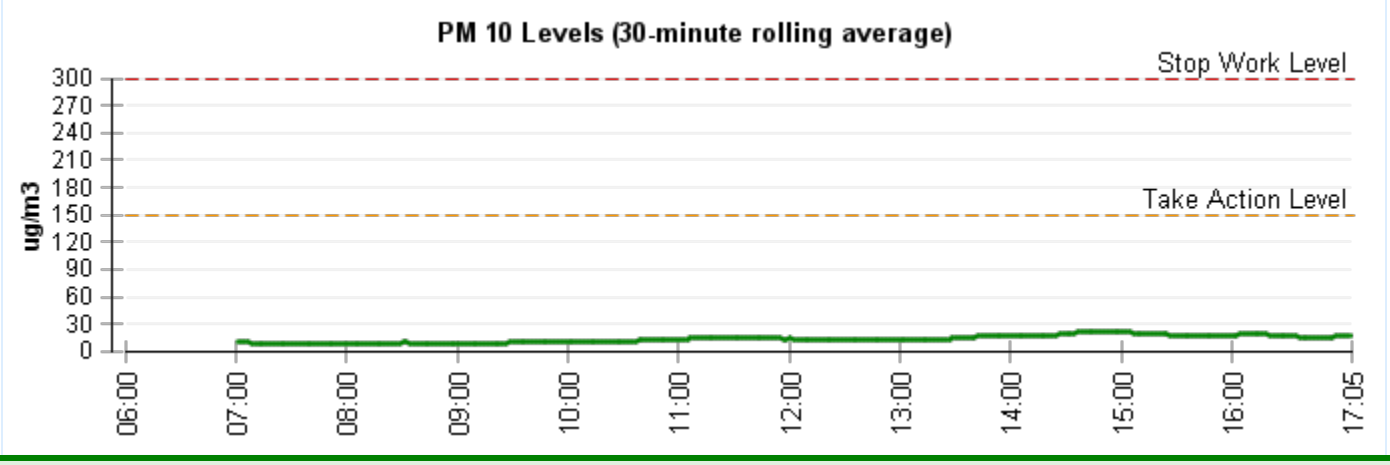




PM 2.5 and PM 10 Time History Data

Sample Date	Dec 13, 2022
Station ID AMS-10b	**Location Description** 29.7864, -95.32379 - HWPW - Eddie and Kashmere





PM 2.5 and PM 10 Time History Data

Sample Date	Dec 13, 2022
Station ID AMS-11	**Location Description** 29.78443, -95.32385 - HWPW - Quitman East