

Daily Air Monitoring Report

JACOBS

New Bedford Harbor Superfund Site

New Bedford, MA

Date: 3/20/2024 **Day:** Wednesday **Shift:** 0600h-1630h

Weather Conditions: Clear
Temperature Low 40°F Precipitation 0.00 in.
Temperature High 54°F Average Dewpoint 19.66°F
Wind Direction S,SSW,SW Average Humidity 43.83 %
Wind Speed 6-20 mph Barometric Pressure 29.54 in.

Weather Source: Weather Underground (<https://www.wunderground.com/history/daily/us/ma/new-bedford/KEWB/date/2024-3-20>)

Summary of Day's Work Activities

Excavation of Cell 1 RCRA material, DDA load out of TSCA & RCRA material

PPE Utilized: Level C modified / Level D

Inspections/Permits: Daily equipment inspections

Particulate Air Monitoring

Location	Max (mg/m ³)	TWA (mg/m ³)
Area C North	0.479	0.025
Area C South	0.068	0.020
Area C East	0.787	0.016
Area C West	0.036	0.017

Action Levels: 2.5 mg/m³ for an 8-hr time weighted average (TWA). If 2.5 mg/m³ or greater is sustained for longer than 5 minutes, activities will be assessed by the SSHOs and corrective actions will be implanted if necessary.

Instruments: (4) DataRAM™ pDR-1000AN Monitors – ThermoFisher Scientific

VOC Monitoring

Location	Max (ppm)	Avg (ppm)
Cell 1 (downwind)	8.0	0.1
Cell 1 (operator cab)	3.0	0.2

Action Levels: Refer to Accident Prevention Plan, Addendum 7, Cell 1 Removal (Jacobs, 2023)

Instruments: (2) RAE Systems MultiRAE Portable Multi Gas Monitor

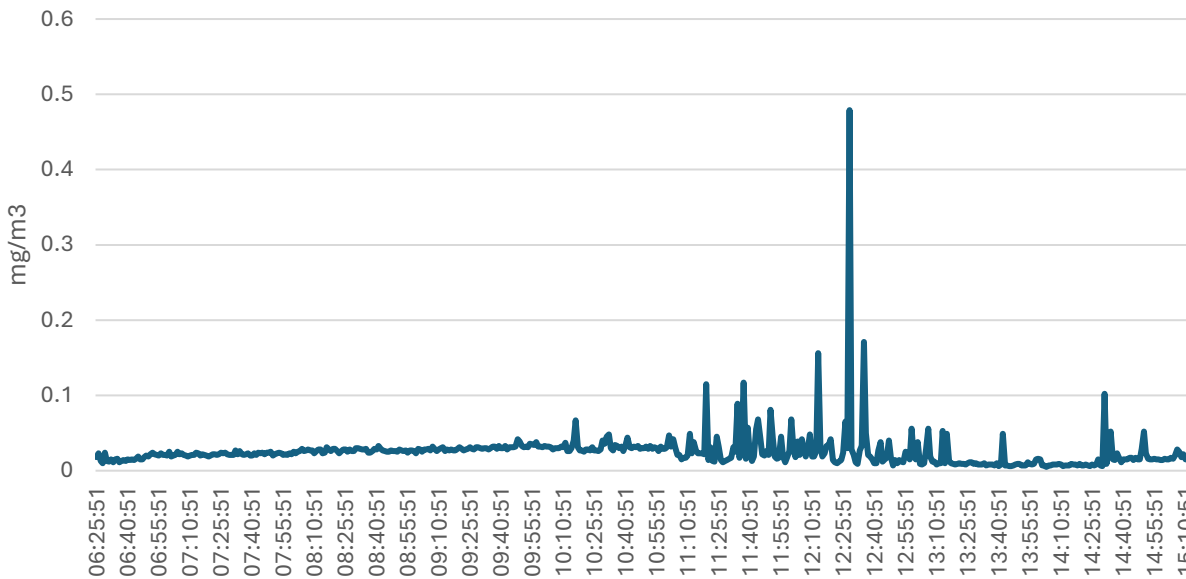
Action Level or Notable Events

- Downwind VOC max reading occurred during the loadout of RCRA material after a strong gust of wind. Levels immediately started to dissipate and returned to 0.0 ppm in less than 1 minute.
- Operator cab VOC peak presumed to be exhaust when opening cab door. Levels decreased to background within 1 minute.

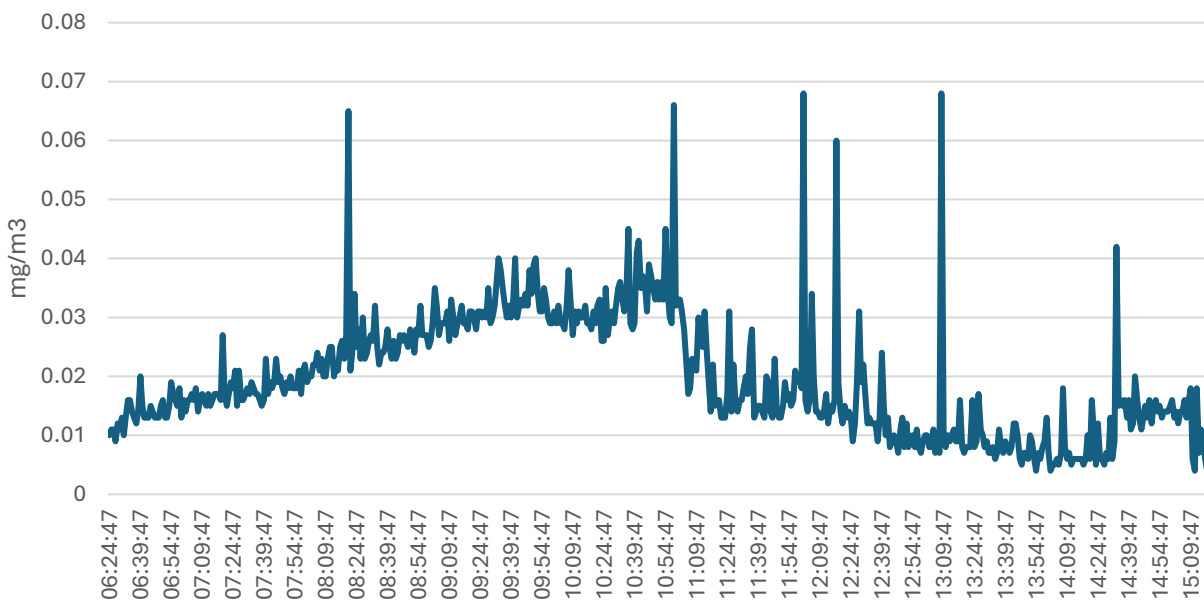
Corrective Actions

- None

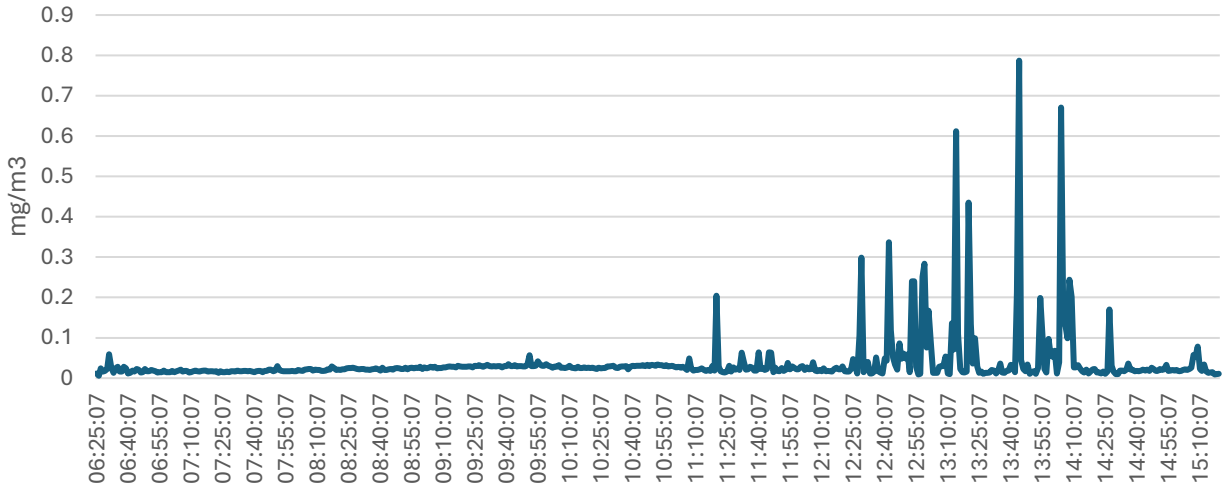
Area C North
Total Airborne Particulate Monitoring
20 Mar 2024



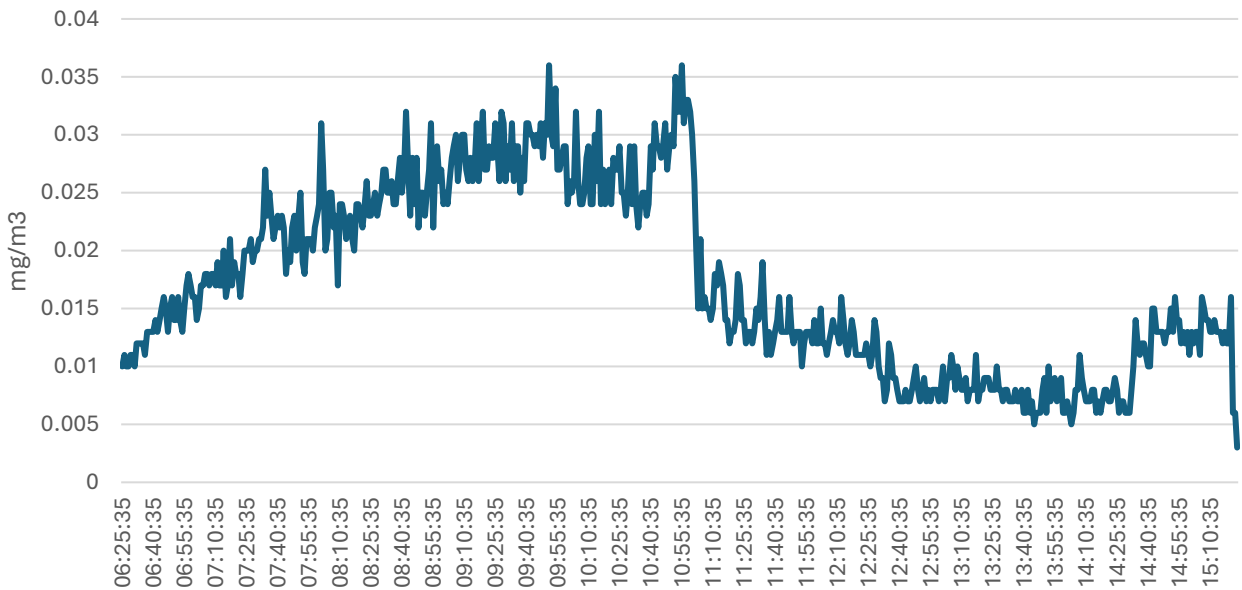
Area C South
Total Airborne Particulate Monitoring
20 March 2024



Area C East
Total Airborne Particulate Monitoring
20 March 2024



Area C West
Total Airborne Particulate Monitoring
20 March 2024



PID (DOWNWIND) SUMMARY

Summary

Unit Name MultiRAE(PGM-6228)
Unit SN M01EA18453
Unit Firmware Ver V1.54

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Pause in Menu Mode

Site ID NBH00000
User ID NEWBEDFD

Begin 3/19/2024 06:13:43
End 3/19/2024 06:21:06
Sample Period(s) 10
Number of Records 43

Sensor	LEL(%LEL) VOC(ppm)	OXY(%)	H2S(ppm)	CO(ppm)	
Sensor SN	SCA3110244D1 SCA3A40108CC	SCA3420224D1	SCA3AR0131D1	SCA3060180D1	
Measure Type	Min; Avg; Max; Real Min; Avg; Max; Real	Min; Avg; Max; Real	Min; Avg; Max; Real	Min; Avg; Max; Real	
Span	50 100.000	18.0	10.0	50	
Span 2	N/A 1000.000	N/A	N/A	N/A	
Low Alarm	10 3.500	19.5	10.0	20	
High Alarm	10 5.000	23.0	20.0	30	
Over Alarm	100 5000.000	30.0	100.0	500	
STEL Alarm	N/A 1.500	N/A	15.0	30	
TWA Alarm	N/A 1.000	N/A	10.0	35	
Measurement Gas(CF)	Methane(1.00) Isobutylene(1.00)	N/A	N/A	N/A	
Calibration Time	3/18/2024 05:34 3/18/2024 05:36	3/18/2024 05:34	3/18/2024 05:34	3/18/2024 05:34	
Peak	0	20.9	0.0	0	0.3
Min	0	20.9	0.0	0	0.0
Average	0	20.9	0.0	0	0.1

Summary

Unit Name MultiRAE(PGM-6228)
Unit SN M01EA18453
Unit Firmware Ver V1.54

Running Mode Hygiene Mode

Datalog Mode Auto
Diagnostic Mode No
Stop Reason Power Down

Site ID NBHS2024
User ID NEWBEDFD

Begin 3/19/2024 06:31:03
End 3/19/2024 06:33:15
Sample Period(s) 10
Number of Records 13

Sensor	LEL(%LEL) VOC(ppm)	OXY(%)	H2S(ppm)	CO(ppm)	
Sensor SN	SCA3110244D1 SCA3A40108CC	SCA3420224D1	SCA3AR0131D1	SCA3060180D1	
Measure Type	Min; Avg; Max; Real Min; Avg; Max; Real	Min; Avg; Max; Real	Min; Avg; Max; Real	Min; Avg; Max; Real	
Span	50 100.000	18.0	10.0	50	
Span 2	N/A 1000.000	N/A	N/A	N/A	
Low Alarm	10 3.500	19.5	10.0	20	
High Alarm	10 5.000	23.0	20.0	30	
Over Alarm	100 5000.000	30.0	100.0	500	
STEL Alarm	N/A 1.500	N/A	15.0	30	
TWA Alarm	N/A 1.000	N/A	10.0	35	
Measurement Gas(CF)	Methane(1.00) Isobutylene(1.00)	N/A	N/A	N/A	
Calibration Time	3/18/2024 05:34 3/18/2024 05:36	3/18/2024 05:34	3/18/2024 05:34	3/18/2024 05:34	
Peak	0	20.9	0.7	0	0.1
Min	0	20.9	0.0	0	0.1
Average	0	20.9	0.2	0	0.1

Summary

Unit Name MultiRAE(PGM-6228)
Unit SN M01EA18453
Unit Firmware Ver V1.54

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Power Down

Site ID NBHS2024
User ID NEWBEDFD

Begin 3/19/2024 06:35:41
End 3/19/2024 08:22:40
Sample Period(s) 10
Number of Records 641

Sensor	LEL(%LEL) VOC(ppm)	OXY(%)	H2S(ppm)	CO(ppm)	
Sensor SN	SCA3110244D1 SCA3A40108CC	SCA3420224D1	SCA3AR0131D1	SCA3060180D1	
Measure Type	Min; Avg; Max; Real Min; Avg; Max; Real	Min; Avg; Max; Real	Min; Avg; Max; Real	Min; Avg; Max; Real	
Span	50 100.000	18.0	10.0	50	
Span 2	N/A 1000.000	N/A	N/A	N/A	
Low Alarm	10 3.500	19.5	10.0	20	
High Alarm	10 5.000	23.0	20.0	30	
Over Alarm	100 5000.000	30.0	100.0	500	
STEL Alarm	N/A 1.500	N/A	15.0	30	
TWA Alarm	N/A 1.000	N/A	10.0	35	
Measurement Gas(CF)	Methane(1.00) Isobutylene(1.00)	N/A	N/A	N/A	
Calibration Time	3/18/2024 05:34 3/18/2024 05:36	3/18/2024 05:34	3/18/2024 05:34	3/18/2024 05:34	
Peak	0	20.9	0.0	0	0.8
Min	0	20.9	0.0	0	0.0
Average	0	20.9	0.0	0	0.0

Summary

Unit Name MultiRAE(PGM-6228)
Unit SN M01EA18453
Unit Firmware Ver V1.54

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Pause in Menu Mode

Site ID NBHS2024
User ID NEWBEDFD

Begin 3/19/2024 08:24:56
End 3/19/2024 08:25:20
Sample Period(s) 10
Number of Records 1

Sensor	LEL(%LEL) VOC(ppm)	OXY(%)	H2S(ppm)	CO(ppm)	
Sensor SN	SCA3110244D1 SCA3A40108CC	SCA3420224D1	SCA3AR0131D1	SCA3060180D1	
Measure Type	Min; Avg; Max; Real Min; Avg; Max; Real	Min; Avg; Max; Real	Min; Avg; Max; Real	Min; Avg; Max; Real	
Span	50 100.000	18.0	10.0	50	
Span 2	N/A 1000.000	N/A	N/A	N/A	

Low Alarm	10 3.500	19.5	10.0	20	
High Alarm	10 5.000	23.0	20.0	30	
Over Alarm	100 5000.000	30.0	100.0	500	
STEL Alarm	N/A 1.500	N/A	15.0	30	
TWA Alarm	N/A 1.000	N/A	10.0	35	
Measurement Gas(CF)	Methane(1.00) Isobutylene(1.00)	N/A	N/A	N/A	
Calibration Time	3/18/2024 05:34 3/18/2024 05:36	3/18/2024 05:34	3/18/2024 05:34	3/18/2024 05:34	
Peak	0	20.4	0.0	0	0.0
Min	0	20.4	0.0	0	0.0
Average	0	20.4	0.0	0	0.0

Summary

Unit Name MultiRAE(PGM-6228)
Unit SN M01EA18453
Unit Firmware Ver V1.54

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Power Down

Site ID NBHS2024
User ID NEWBEDFD

Begin 3/19/2024 08:25:51
End 3/19/2024 16:41:46
Sample Period(s) 10
Number of Records 2615

Sensor	LEL(%LEL) VOC(ppm)	OXY(%)	H2S(ppm)	CO(ppm)
Sensor SN	SCA3110244D1 SCA3A40108CC	SCA3420224D1	SCA3AR0131D1	SCA3060180D1
Measure Type	Min; Avg; Max; Real Min; Avg; Max; Real	Min; Avg; Max; Real	Min; Avg; Max; Real	Min; Avg; Max; Real
Span	50 100.000	18.0	10.0	50
Span 2	N/A 1000.000	N/A	N/A	N/A
Low Alarm	10 3.500	19.5	10.0	20
High Alarm	10 5.000	23.0	20.0	30
Over Alarm	100 5000.000	30.0	100.0	500
STEL Alarm	N/A 1.500	N/A	15.0	30
TWA Alarm	N/A 1.000	N/A	10.0	35
Measurement Gas(CF)	Methane(1.00)	N/A	N/A	N/A

Calibration Time	Isobutylene(1.00) 3/18/2024 05:34 3/18/2024 05:36	3/18/2024 05:34	3/18/2024 05:34	3/18/2024 05:34	
Peak	0	20.9	0.0	0	8.0
Min	0	20.5	0.0	0	0.0
Average	0	20.9	0.0	0	0.1

PID (OPERATOR CAB) SUMMARY

Datalog

Current Event:24/03/20 06:30

Summary

Unit Name MultiRAE{PGM-6228}
Unit SN M01EA16156
Unit Firmware Ver V1.50

Running Mode Hygiene Mode
Datalog Mode Auto
Diagnostic Mode No
Stop Reason Power Down

Site ID SITE0000
User ID USER0000

Begin 3/20/2024 06:30:21
End 3/20/2024 16:49:40
Sample Period(s) 60
Number of Records 619

Sensor	LEL(%LEL) VOC(ppm)	OXY(%)	H2S(ppm)	CO(ppm)
Sensor SN	SC03110243AB SC03A40287V4	SCA3420557D3	SC03130296V5	SC03130296V5
Measure Type	Min; Avg; Max; Real Min; Avg; Max; Real	Min; Avg; Max; Real	Min; Avg; Max; Real	Min; Avg; Max; Real
Span	50 100.000	18.0	10.0	50
Span 2	N/A 1000.000	N/A	N/A	N/A
Low Alarm	10 8.000	19.5	10.0	35
High Alarm	20 10.000	23.5	20.0	30
Over Alarm	100 5000.000	30.0	200.0	500
STEL Alarm	N/A 25.000	N/A	15.0	100
TWA Alarm	N/A 10.000	N/A	10.0	35
Measurement Gas(CF)	Methane(1.00) Isobutylene(1.00)	N/A	N/A	N/A
Calibration Time	2/21/2024 16:01 2/21/2024 16:02	2/21/2024 16:01	2/21/2024 16:01	2/21/2024 16:01
Peak	0 3.0	21.3	0.0	0
Min	0 0.0	20.9	0.0	0
Average	0 0.5	20.9	0.0	0