



From: Mr. Keith Fields, Project Manager (Tidewater)
To: Thomas Heins (USACE), Lindsay Mairs (AFCEC), and Dennis Powers (USACE)
Subject: Draft Fieldwork Completion Report (Tree Removal and Stump Grinding)
Contract Number: W912DR-20-D-0012
Task Order Number: W912DR23F0049
Project Title: Niagara Falls Air Reserve Station (NFARS) Site 3 Landfill Tree Removal
Project Location: Niagara Falls, New York
Date: January 15, 2025

Introduction:

This report summarizes the fieldwork conducted during the tree removal at the Niagara Falls Air Reserve Station (NFARS) in Niagara Falls, New York on December 18 to 20, 2023 and May 14 to 16, 2024. The objectives of this project were to remove and dispose of approximately fifty trees within the boundary of the Site 3 Landfill and then restore the landfill cap to maintain its integrity.

The Tidewater team, consisting of Tidewater and The Davey Tree Expert Company (Davey), performed field activities described in the approved Excavation Work Plan (EWP) for Tree Removal Activities.¹ Daily Fieldwork Reports are provided as Attachment A. During the one-year warranty period, the Tidewater team will water the repaired portions of the landfill cap. Watering is scheduled to take place on a weekly basis, as needed to ensure grass growth in the repaired locations.

At the outset of each day of fieldwork, the team conducted a tailgate safety meeting to review the day's objectives, discuss safety protocols, and address any potential hazards associated with field activities. Field activities were performed in accordance with the approved Accident Prevention Plan/Site Safety and Health Plan (APP/SSHP).² Copies of the tailgate safety meeting forms are included in Attachment B.

The following attachments are provided with this Fieldwork Completion Report:

- Attachment A: Daily Fieldwork Reports
- Attachment B: Daily Tailgate Safety Meeting Forms
- Attachment C: Field Notes Documenting Geo-Location of Trees
- Attachment D: Instrument Certification of Calibration
- Attachment E: Monitoring Data Reports
- Attachment F: Weight Tickets
- Attachment G: Photo Log
- Attachment H: Topsoil Approval Documentation

December 2023 Fieldwork Activities Summary:

Following inspections of the condition of the landfill cap to ensure no rutting would occur, field work commenced on December 18, 2023. Trees were geolocated using a Trimble™ global positioning system (GPS) unit to ensure all trees identified for removal in the Performance Work Statement (PWS) were located. Forty-seven trees were cut down and forty-eight trees were removed. Tree #94

¹ Tidewater, 2023. *Final Excavation Work Plan for Tree Removal Activities, Niagara Falls Air Reserve Station Niagara County, Niagara Falls, New York*. Prepared under Contract No. W912DR-20-D-0012. December.

² Tidewater, 2023. *Final Accident Prevention Plan/Site Safety and Health Plan, Niagara Falls Air Reserve Station Tree Removal Activities*. Prepared under Contract No. W912DR-20-D-0012. November.



did not exist at the location provided in the PWS. Tree #68 fell during a storm prior to being cut down and Tree #57 was removed prior to fieldwork by others. Tree removal activities were completed on December 20, 2023. Attachment C provides a drawing and spreadsheet documenting the location of tree removal and stump grinding activities. During tree removal activities, Tidewater monitored noise levels and volatile organic compound (VOC) levels using a photoionization detector (PID). The PID Certificate of Calibration is provided in Attachment D. PID and noise monitoring results are provided in Attachment E.

Davey removed all trees identified in the PWS and transported logs and chipped material to Good Earth Organics. Logs documenting the weight of materials taken to Good Earth Organics are provided in Attachment F. Photographs taken during the December 2023 field work are included in Attachment G.

May 2024 Fieldwork Activities Summary:

Stump grinding and site restoration activities commenced on May 14, 2024, and were completed on May 16, 2024. After each stump was ground, the grindings were scanned visually for waste and with a PID by the Tidewater team. VOCs in the stump grindings were not detected above the response level identified in the EWP. During stump grinding a temporary fence post was encountered at Tree #76 at roughly five inches below ground surface (bgs). There were no VOCs detected with the PID at this location. Following coordination with USACE and AFCEC, this fence post was determined not to be a part of the landfill waste. Stump grindings were then removed and loaded into a dump truck and transported to Good Earth Organics for disposal (see Attachment F for weight ticket).

Each tree location was backfilled to its original grade with approved topsoil and seeded with a mix of 40% Kentucky bluegrass, 40% tall fescue, and 20% annual ryegrass. HydroCover™ was applied to stabilize and promote grass growth in the seeded areas. Topsoil used for site restoration was obtained from Shelby Crushed Stone located at 10830 Blair Rd, Medina, NY 14103. The report submitted to New York State Department of Environmental Conservation (NYSDEC) requesting approval to use the topsoil and the NYSDEC approval letter are provided in Attachment H. The weight ticket/invoice from Shelby Crushed Stone is provided in Attachment F.

Prior to departing the site, the Tidewater Team tagged each tree using a GPS Trimble unit to confirm no trees or stumps were missed.

During stump grinding, Tidewater implemented the Community Air Monitoring Program (CAMP) detailed in the EWP. No VOC levels were detected during fieldwork in excess of the response levels identified in the EWP. Particulate levels exceeded the response level on one occasion; however, this exceedance occurred during setup and prior to the commencement of tree removal activities. The Certificate of Calibration for the PID is provided in Attachment D. Copies of monitoring data reports for particulate levels, PID readings, and sound monitoring are provided in Attachment E. Photographs taken during the May 2024 field work are provided in Attachment G.

Deviations to the Excavation Work Plan:

Three deviations from the EWP occurred. The deviations and explanations follow below.

1. Tree #57 had already fallen and was removed prior to the commencement of the contract. The depression that remained was backfilled with approved topsoil and seeded.



2. Tree #94 was not found during the tagging of trees with the Trimble™ GPS unit. The area where the tree was reported was thoroughly inspected. No stumps were found nor was a depression found. As a result, no action was taken on this location.
3. Tree #68 was uprooted during a storm prior to the December field event. This resulted in a disruption to the landfill cap of greater than 6 inches bgs. Upon arrival to the site the occurrence was reported to the USACE PM. The area was then inspected for visible waste and scanned with a PID. No signs of waste existed. The tree was removed and the disruption to the landfill cap restored with approved topsoil.

Cover Monitoring and Revegetation

Following the stump grinding and site restoration activities in May 2024, the areas that were backfilled/seeded were watered and monitored to ensure revegetation. Watering activities were conducted in May and June 2024. Additional seeding was performed in some areas in September 2024. A site visit was conducted in November 2024 with Lindsay Mairs and the revegetation of the restored areas was determined to be complete.

Attachment A:
Daily Fieldwork Reports

**Niagara Falls Air Reserve Station December 2023 Tree Removal
Daily Report
Monday, December 18, 2023**

Weather:

- 30s; Cloudy/Drizzle

Site Personnel:

- Hans White, Nick Wyckoff (Tidewater Inc.)
- Gerald Kubek, Ryan Fraizer, Jon Tyx, Matthew Brennan, Tyler Martin, Adam Martin, Michael Alvar, Joshua Rung, Chad Bockham, Brett Powenski, George Plarr, Tom Anderson (Davey Tree Experts)

Summary of Activities completed on Monday, December 18, 2023:

- Arrived at site and obtained base access passes
- Assessed site conditions
- Conducted Tailgate Safety meetings
- Tagged and marked all trees to be removed
- Prepared site for tree removal
 - Stationed trucks for chipping near the east end of the parking lot
 - Placed mats across the landfill cap to prevent rutting
- Commenced noise monitoring in vicinity of site operations
- Periodically monitored for VOCs using the onsite PID
 - Maximum reading recorded 0.3 PPM (Background)
- Began tree removal in the north section of the landfill
- Completed removal of all (17) trees in the northern portion of the site three landfill
 - 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, and 116
- Received permission to conduct tree removal on the leased portion of the site 3 landfill
- Conducted site cleanup activities
 - Raking and leaf blowing
 - Ensured tires were free from large amounts of mud
- Mobilized traction mats to southern portion of the site three landfill
- Departed for the day

Summary of Activities planned for Tuesday, December 19, 2023:

- Begin to remove trees on southern portion of the Site 3 Landfill.
- Receive delivery of soil sample bottles for additional topsoil test.



Daily Photo Log



**Niagara Falls Air Reserve Station December 2023 Tree Removal
Daily Report
Tuesday, December 19, 2023**

Weather:

- 20s; Cloudy/Snowy

Site Personnel:

- Hans White, Nick Wyckoff (Tidewater, Inc.)
- Gerald Kubek, Ryan Fraizer, Jon Tyx, Matthew Brennan, Tyler Martin, Adam Martin, Michael Alvar, Joshua Rung, Chad Bockham, and Brett Powenski (Davey Tree Experts)

Summary of Activities completed on Tuesday, December 19, 2023:

- Arrived at site and assessed site conditions.
- Conducted Tailgate Safety meeting.
- Prepared site for tree removal.
 - Stationed trucks for chipping along Kinross Street.
 - Placed mats across the landfill cap to prevent rutting in wet and most heavily trafficked areas.
- Commenced noise monitoring in vicinity of site operations.
- Periodically monitored for VOCs using the onsite PID.
 - Maximum reading recorded 0.5 PPM (an order of magnitude below any action required by CAMP).
- Began tree removal in the southern section of the landfill.
- Completed removal of all (31) trees in the southern portion of the Site 3 landfill.
 - 52, 56, 58, 59, 60, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, and 93.
 - Tree #94 missing.
 - Tree #57 already removed.
- Ensured tires were free from significant amounts of mud.
- Cleaned chipping area on Kinross Street.
- Departed for the day.
- Accepted delivery of additional soil sample kit for topsoil sample.

Summary of Activities planned for Wednesday, December 20, 2023:

- Clean up tree debris on the southern portion of the Site 3 Landfill.
- Conclude tree removal operations.
- Collect topsoil samples.
- Ship topsoil samples to laboratory for analysis

Daily Photo Log



**Niagara Falls Air Reserve Station December 2023 Tree Removal
Daily Report
Wednesday, December 20, 2023**

Weather:

- 30s; Cloudy

Site Personnel:

- Hans White, Nick Wyckoff (Tidewater, Inc.)
- Gerald Kubek, Ryan Fraizer, Jon Tyx, Matthew Brennan, Tyler Martin, Adam Martin, Michael Alvar, Joshua Rung, Chad Bockham, Brett Powenski, and George Plarr (Davey Tree Experts)

Summary of Activities completed on Wednesday, December 20, 2023:

- Arrived at site and assessed site conditions.
- Conducted Tailgate Safety meeting.
- Prepared site for cleanup.
 - Stationed trucks for chipping along Kinross Street.
 - Adjusted mats across the landfill cap to prevent rutting in wet and most heavily trafficked areas.
- Commenced noise monitoring in vicinity of site operations.
- Periodically monitored for VOCs using the onsite PID.
 - Maximum reading recorded was 0.0 PPM.
- Completed cleanup of the southern portion of the Site 3 Landfill.
- Ensured tires were free from significant amounts of mud.
- Cleaned chipping area on Kinross Street.
- Departed site.
- Collected topsoil sample from stockpile at Ruso Development.
- Relinquished samples to courier for transportation to the analytical laboratory.

Daily Photo Log



**Niagara Falls Air Reserve Station May 2024 Tree Removal
Daily Report
Tuesday, May 14, 2024**

Weather:

- 70s; mostly sunny
- Wind from the SW

Site Personnel:

- Hans White, Nick Wyckoff (Tidewater, Inc.)
- Jon Tyx, Matthew Brennan (Davey Tree Experts)
- Elizabeth Eyer (USACE Baltimore District)

Summary of Activities completed on Tuesday, May 14, 2024:

- Arrived at site and assessed site conditions.
- Conducted Tailgate Safety meeting.
- Prepared site for stump grinding.
- Set up and commenced air and noise monitoring in vicinity of site operations in the northern portion of the Site 3 Landfill.
 - Particulate monitoring up wind and downwind.
 - VOC monitoring downwind.
 - Noise monitoring in vicinity of operations
- Began stump grinding.
- Checked stump areas for signs of exposed fill.
 - None found.
- Completed stump grinding of the northern portion of the Site 3 Landfill.
- Broke down monitoring equipment.
- Mobilized to southern portion of the Site 3 Landfill.
- Set up monitoring equipment in the vicinity of site operations in the southern portion of the Site 3 landfill.
 - Particulate monitoring up wind and downwind.
 - VOC monitoring downwind.
 - Noise monitoring in vicinity of operations
- Began stump grinding on southern portion of the Site 3 Landfill.
- Encountered metal rebar like item in one stump grinding area. Checked for VOCs, none above background (0.1 ppm).
- Completed stump grinding at southern portion of the Site 3 Landfill.
- Broke down monitoring equipment.
- Cleaned up stump grindings for efficient removal of ground woodchips.
- Restored barrier on Kinross Street to prevent unauthorized vehicle entry.
- Departed for day.

Planned activities for on Wednesday, May 15, 2024:

- Remove stump grinding debris.
- Accept delivery of topsoil (plan to station at end of Kinross Street for southern portion of landfill and parking lot approved for northern portion of landfill).
- Backfill with topsoil in preparation for watering and seeding.

Daily Photo Log





Metal encountered during intrusive stump grinding.

Niagara Falls Air Reserve Station May 2024 Tree Removal

Daily Report

Wednesday, May 15, 2024

Weather:

- 70s; mostly Cloudy
- Wind from the NE

Site Personnel:

- Hans White, Nick Wyckoff (Tidewater, Inc.)
- Jon Tyx, Matthew Brennan (Davey Tree Experts)
- Elizabeth Eyer (USACE Baltimore District)

Summary of Activities completed on Wednesday, May 15, 2024:

- Arrived at site and assessed site conditions.
- Conducted Tailgate Safety meeting.
- Prepared site for removal of stump grindings.
- Set up and commenced air and noise monitoring in vicinity of site operations in the northern portion of the Site 3 Landfill.
 - Particulate monitoring up wind and downwind.
 - VOC monitoring downwind.
 - Noise monitoring in vicinity of operations.
- Began removal of stump grindings.
- Checked cleared stump areas for signs of exposed fill. None found.
- Checked cleared stump areas for VOCs with PID. None above established project action levels.
- Completed removal of stump grindings the northern portion of the Site 3 Landfill.
- Broke down monitoring equipment.
- Mobilized to southern portion of the Site 3 Landfill.
- Set up monitoring equipment in the vicinity of site operations in the southern portion of the Site 3 landfill.
 - Particulate monitoring up wind and downwind.
 - VOC monitoring downwind.
 - Noise monitoring in vicinity of operations.
- Began removal of stump grindings on southern portion of the Site 3 Landfill.
- Checked cleared stump areas for signs of exposed fill. None found other than the exposed metal item noted in the daily report from Tuesday (5/14).
- Checked cleared stump areas for VOCs with PID. None above established project action levels.
- Completed removal of stump grindings at southern portion of the Site 3 Landfill.
- Broke down monitoring equipment.
- Cleaned up Kinross Street where stump grindings were loaded into truck.
- Restored barrier on Kinross Street to prevent unauthorized vehicle entry.
- Departed for day.

Planned activities for on Wednesday, May 16, 2024:

- Accept delivery of topsoil (plan to station at end of Kinross Street for southern portion of landfill and parking lot approved for northern portion of landfill).
- Backfill stump grinding depressions with topsoil.
- Seed and water restored landfill cap.

Daily Photo Log



Niagara Falls Air Reserve Station May 2024 Tree Removal

Daily Report

Thursday, May 16, 2024

Weather:

- 70s; Partly Cloudy
- Wind from the East-Northeast

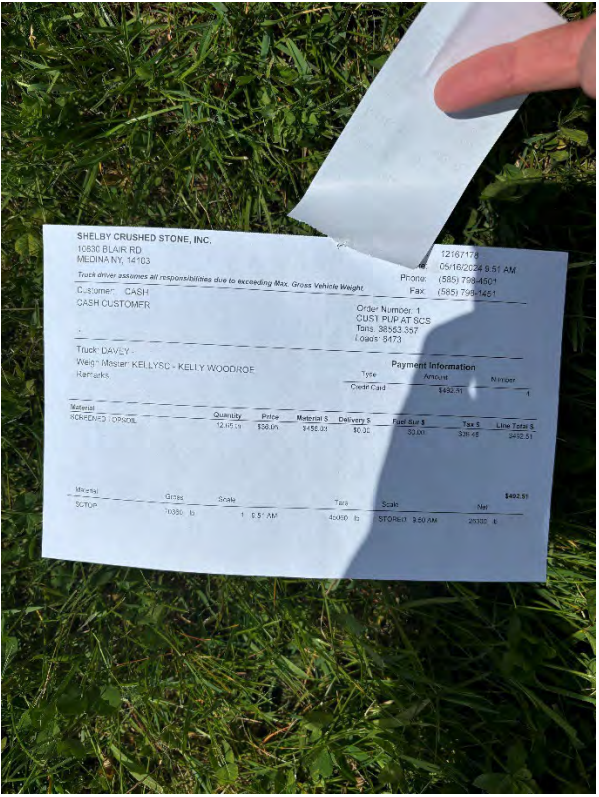
Site Personnel:

- Hans White, Nick Wyckoff (Tidewater, Inc.)
- Jon Tyx, Matthew Brennan (Davey Tree Experts)
- Tom Heins (USACE PM)

Summary of Activities completed on Thursday, May 16, 2024:

- Arrived at site and assessed site conditions.
- Conducted Tailgate Safety Meeting.
- Prepared site for backfilling with topsoil.
- Set up and commenced air and noise monitoring in vicinity of site operations in the northern portion of the Site 3 Landfill.
 - Particulate monitoring up wind and downwind.
 - VOC monitoring downwind.
 - Noise monitoring in vicinity of operations.
- Began backfilling with NYDEC approved topsoil from Shelby Crushed Stone.
- Seeded applied topsoil.
- Broke down monitoring equipment.
- Mobilized to southern portion of the Site 3 Landfill.
- Set up monitoring equipment in the vicinity of site operations in the southern portion of the Site 3 landfill.
 - Particulate monitoring up wind and downwind.
 - VOC monitoring downwind.
 - Noise monitoring in vicinity of operations.
- Began backfilling with topsoil on southern portion of the Site 3 Landfill.
- Seeded newly applied topsoil at southern portion of the Site 3 Landfill.
- Broke down monitoring equipment.
- Cleaned up Kinross Street where topsoil was loaded into track loader.
- Restored barrier on Kinross Street to prevent unauthorized vehicle entry.
- Coordinated authorization for watering of newly planted grass seed.
- Departed for day.
- Coordinated weekly watering scheduled to commence next week.

Daily Photo Log



Attachment B:
Daily Tailgate Safety Meeting
Forms

TAILGATE SAFETY MEETING FORM

Date: 12/18/23 Time: 0730 Job Number: W912DR-20-D-0012

Site Location: Niagara Falls Air Reserve Station Site 3 Landfill

Scope of Work: Site Visit/Reconnaissance; Vegetation Removal; Tree Removal; CAMP Air Monitoring; Stump Removal; Landfill Cap Repair; Site Maintenance.

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment: Level D: hard hat (if applicable), standard work clothing, safety glasses, safety-toed boots, work gloves, traffic vest, etc.

Chemical Hazards: None anticipated.

Physical Hazards: Slips, trips, falls; heavy equipment; uneven/marshy conditions. Review AHAs

Equipment Used: stake body truck; wood chipper; chainsaws; hand/power tools

Emergency Procedures: 911, First Aid

Hospital:

Mount St. Mary's Hospital

5300 Military Road

Lewiston, NY 14092

Phone: 845-561-4400 Ambulance Phone: 911

Hospital Address and Route: • Head South on Kinross Street toward Langley Street (0.4 miles), Turn left on Hulby Street (194 ft), Turn right on Hulby Street (0.2 miles), Turn right onto Kirkbridge Drive (144ft), Turn left onto Wagner Drive (0.4 miles), Turn left onto Blewett Drive (0.4 miles), Turn right onto Tuscarora Road (0.4 miles), Turn left onto Lockport Rd (0.4 miles), Turn right onto Joris Ct/Lockport Rd (1.8 Miles), Turn right onto NY-265 N/Military Rd (3.0 miles), Turn left (0.1 mile), arrive at hospital.

Noise Impacts and Mitigation: Ear plugs/muffs during wood chipping, tree removal, and stump grinding, Noise Monitoring.

Odor Impacts and Mitigation: _____

Permits Required: _____

ATTENDEES

NAME PRINTED

Gerald Klueck
Ryan Frazier
Jon LYX
Matthew Brennan
Tyler Martin
Adam Martin
Michael Alford

SIGNATURE

Gerald Klueck
Ryan Frazier
Jon LYX
Matthew Brennan
Tyler Martin
Adam Martin
Michael Alford

Meeting Conducted by: H. White

Site Safety Officer: H. White

Signed by: [Signature]

Quality Manager: _____

Daily Issues and Lessons Learned: N/A

Daily Site Closure Actions: _____

TAILGATE SAFETY MEETING FORM

Date: 12/19/23 Time: 0730 Job Number: W912DR-20-D-0012

Site Location: Niagara Falls Air Reserve Station Site 3 Landfill

Scope of Work: Site Visit/Reconnaissance; Vegetation Removal; Tree Removal; CAMP Air

Monitoring: Stump Removal; Landfill Cap Repair; Site Maintenance.

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment: Level D: hard hat (if applicable), standard work clothing, safety glasses, safety-toed boots, work gloves, traffic vest, etc.

Chemical Hazards: None anticipated.

Physical Hazards: Slips, trips, falls; heavy equipment; uneven/marshy conditions. Review AHAs

Equipment Used: stake body truck; wood chipper; chainsaws; hand/power tools

Emergency Procedures: 911, First Aid

Hospital:

Mount St. Mary's Hospital

5300 Military Road

Lewiston, NY 14092

Phone: 845-561-4400 Ambulance Phone: 911

Hospital Address and Route: • Head South on Kinross Street toward Langley Street (0.4 miles). Turn left on Hulby Street (194 ft). Turn right on Hulby Street (0.2 miles). Turn right onto Kirkbridge Drive (144ft). Turn left onto Wagner Drive (0.4 miles). Turn left onto Blewett Drive (0.4 miles). Turn right onto Tuscarora Road (0.4 miles). Turn left onto Lockport Rd (0.4 miles). Turn right onto Joris Ct/Lockport Rd (1.8 Miles). Turn right onto NY-265 N/Military Rd (3.0 miles). Turn left (0.1 mile), arrive at hospital.

Noise Impacts and Mitigation: Ear plugs/muffs during wood chipping, tree removal, and stump grinding, Noise Monitoring.

Odor Impacts and Mitigation: _____

Permits Required: _____

ATTENDEES

NAME PRINTED
<u>Tyler Marshall</u>
<u>John Tux</u>
<u>Matthew Brannon</u>
<u>NICK W. CHITT</u>
<u>John Martin</u>
<u>Chad Brannon</u>
<u>Josh Rung</u>

SIGNATURE
<u>[Signature]</u>
<u>[Signature]</u>
<u>[Signature]</u>
<u>[Signature]</u>
<u>[Signature]</u>

Meeting Conducted by: H. White

Site Safety Officer: H. White

Signed by: [Signature]

Quality Manager: _____

Daily Issues and Lessons Learned: _____

Daily Site Closure Actions: _____

TAILGATE SAFETY MEETING FORM

Date: 12/20/23 Time: 0900 Job Number: W912DR-20-D-0012

Site Location: Niagara Falls Air Reserve Station Site 3 Landfill

Scope of Work: Site Visit/Reconnaissance; Vegetation Removal; Tree Removal; CAMP Air Monitoring; Stump Removal; Landfill Cap Repair; Site Maintenance.

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment: Level D: hard hat (if applicable), standard work clothing, safety glasses, safety-toed boots, work gloves, traffic vest, etc.

Chemical Hazards: None anticipated.

Physical Hazards: Slips, trips, falls; heavy equipment; uneven/marshy conditions. Review AHAs

Equipment Used: stake body truck; wood chipper; chainsaws; hand/power tools

Emergency Procedures: 911, First Aid

Hospital:

Mount St. Mary's Hospital

5300 Military Road

Lewiston, NY 14092

Phone: 845-561-4400 Ambulance Phone: 911

Hospital Address and Route: • Head South on Kinross Street toward Langley Street (0.4 miles). Turn left on Hulby Street (194 ft). Turn right on Hulby Street (0.2 miles). Turn right onto Kirkbridge Drive (144ft). Turn left onto Wagner Drive (0.4 miles). Turn left onto Blewett Drive (0.4 miles). Turn right onto Tuscarora Road (0.4 miles). Turn left onto Lockport Rd (0.4 miles). Turn right onto Joris Ct/Lockport Rd (1.8 Miles). Turn right onto NY-265 N/Military Rd (3.0 miles). Turn left (0.1 mile), arrive at hospital.

Noise Impacts and Mitigation: Ear plugs/muffs during wood chipping, tree removal, and stump grinding. Noise Monitoring.

Odor Impacts and Mitigation: _____

Permits Required: _____

ATTENDEES

NAME PRINTED
<u>JOSH RING</u>
<u>Michael Alund</u>
<u>Ryan Grazier</u>
<u>Tyler Martin</u>
<u>Brett Lowinski</u>
<u>Joe Trax</u>
<u>NICK WICKOFF</u>

SIGNATURE
<u>[Signature]</u>
<u>[Signature]</u>
<u>[Signature]</u>
<u>[Signature]</u>
<u>[Signature]</u>
<u>[Signature]</u>

Signed by: _____
Quality Manager: _____

Meeting Conducted by: H. White
Site Safety Officer: H. White

Daily Issues and Lessons Learned: _____

Daily Site Closure Actions: _____

TAILGATE SAFETY MEETING FORM

Date: 5/14/2024 Time: 0700 Job Number: W912DR-20-D-0012

Site Location: Niagara Falls Air Reserve Station Site 3 Landfill

Scope of Work: Site Visit/Reconnaissance; Vegetation Removal; Tree Removal; CAMP Air Monitoring; Stump Removal; Landfill Cap Repair; Site Maintenance.

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment: Level D: hard hat (if applicable), standard work clothing, safety glasses, safety-toed boots, work gloves, traffic vest, etc.

Chemical Hazards: None anticipated.

Physical Hazards: Slips, trips, falls; heavy equipment; uneven/marshy conditions. Review AHAs

Equipment Used: stake body truck; wood chipper; chainsaws; hand/power tools

Emergency Procedures: 911, First Aid

Hospital:

Mount St. Mary's Hospital

5300 Military Road

Lewiston, NY 14092

Phone: 845-561-4400 Ambulance Phone: 911

Hospital Address and Route: • Head South on Kinross Street toward Langley Street (0.4 miles). Turn left on Hulby Street (194 ft). Turn right on Hulby Street (0.2 miles). Turn right onto Kirkbridge Drive (144ft). Turn left onto Wagner Drive (0.4 miles). Turn left onto Blewett Drive (0.4 miles). Turn right onto Tuscarora Road (0.4 miles). Turn left onto Lockport Rd (0.4 miles). Turn right onto Joris Ct/Lockport Rd (1.8 Miles). Turn right onto NY-265 N/Military Rd (3.0 miles). Turn left (0.1 mile), arrive at hospital.

Noise Impacts and Mitigation: Ear plugs/muffs during wood chipping, tree removal, and stump grinding. Noise Monitoring.

Odor Impacts and Mitigation: _____

Permits Required: _____

ATTENDEES

NAME PRINTED

Jon Tix
Mark Brennan
NICK WYCKOFF
Elizabeth Eyer

SIGNATURE

[Signature]
[Signature]
[Signature]

Meeting Conducted by: H. White

Site Safety Officer: A. White

Signed by: [Signature]

Quality Manager: _____

Daily Issues and Lessons Learned: check for waste.

Daily Site Closure Actions: _____

TAILGATE SAFETY MEETING FORM

Date: 5/15/2024 Time: _____ Job Number: W912DR-20-D-0012

Site Location: Niagara Falls Air Reserve Station Site 3 Landfill

Scope of Work: Site Visit/Reconnaissance; Vegetation Removal; Tree Removal; CAMP Air

Monitoring: Stump Removal; Landfill Cap Repair; Site Maintenance.

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment: Level D: hard hat (if applicable), standard work clothing, safety glasses, safety-toed boots, work gloves, traffic vest, etc.

Chemical Hazards: None anticipated.

Physical Hazards: Slips, trips, falls; heavy equipment; uneven/marshy conditions. Review AHAs

Equipment Used: stake body truck; wood chipper; chainsaws; hand/power tools

Emergency Procedures: 911, First Aid

Hospital:

Mount St. Mary's Hospital

5300 Military Road

Lewiston, NY 14092

Phone: 845-561-4400 Ambulance Phone: 911

Hospital Address and Route: • Head South on Kinross Street toward Langley Street (0.4 miles), Turn left on Hulby Street (194 ft), Turn right on Hulby Street (0.2 miles), Turn right onto Kirkbridge Drive (144ft), Turn left onto Wagner Drive (0.4 miles), Turn left onto Blewett Drive (0.4 miles), Turn right onto Tuscarora Road (0.4 miles), Turn left onto Lockport Rd (0.4 miles), Turn right onto Joris Ct/Lockport Rd (1.8 Miles), Turn right onto NY-265 N/Military Rd (3.0 miles), Turn left (0.1 mile), arrive at hospital.

Noise Impacts and Mitigation: Ear plugs/muffs during wood chipping, tree removal, and stump grinding, Noise Monitoring.

Odor Impacts and Mitigation: _____

Permits Required: _____

ATTENDEES

NAME PRINTED
<u>John TVF</u>
<u>Matt Brennan</u>
<u>Elizabeth Eyer</u>
<u>Nick Wyckoff</u>

SIGNATURE
<u>[Signature]</u>
<u>[Signature]</u>
<u>[Signature]</u>

Meeting Conducted by: H. White

Site Safety Officer: H. White

Signed by: [Signature]

Quality Manager: _____

Daily Issues and Lessons Learned: Slight chance of rain in afternoon.

Daily Site Closure Actions: _____

TAILGATE SAFETY MEETING FORM

Date: 5/16/2024 Time: 1050 Job Number: W912DR-20-D-0012

Site Location: Niagara Falls Air Reserve Station Site 3 Landfill

Scope of Work: Site Visit/Reconnaissance; Vegetation Removal; Tree Removal; CAMP Air Monitoring; Stump Removal; Landfill Cap Repair; Site Maintenance.

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment: Level D: hard hat (if applicable), standard work clothing, safety glasses, safety-toed boots, work gloves, traffic vest, etc.

Chemical Hazards: None anticipated.

Physical Hazards: Slips, trips, falls; heavy equipment; uneven/marshy conditions. Review AHAs

Equipment Used: stake body truck; wood chipper; chainsaws; hand/power tools

Emergency Procedures: 911, First Aid

Hospital:

Mount St. Mary's Hospital

5300 Military Road

Lewiston, NY 14092

Phone: 845-561-4400 Ambulance Phone: 911

Hospital Address and Route: • Head South on Kinross Street toward Langley Street (0.4 miles), Turn left on Hulby Street (194 ft), Turn right on Hulby Street (0.2 miles), Turn right onto Kirkbridge Drive (144ft), Turn left onto Wagner Drive (0.4 miles), Turn left onto Blewett Drive (0.4 miles), Turn right onto Tuscarora Road (0.4 miles), Turn left onto Lockport Rd (0.4 miles), Turn right onto Joris Ct/Lockport Rd (1.8 Miles), Turn right onto NY-265 N/Military Rd (3.0 miles), Turn left (0.1 mile), arrive at hospital.

Noise Impacts and Mitigation: Ear plugs/muffs during wood chipping, tree removal, and stump grinding, Noise Monitoring.

Odor Impacts and Mitigation: _____

Permits Required: _____

ATTENDEES

NAME PRINTED

Matt Brennan
Jon Tux
Nick Wyckoff

SIGNATURE

[Signature]
[Signature]

Meeting Conducted by: H. White
Site Safety Officer: H. White

Signed by: [Signature]
Quality Manager: _____

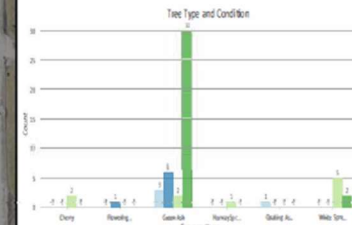
Daily Issues and Lessons Learned: _____

Daily Site Closure Actions: _____

Attachment C:
Field Notes Documenting
Geo-location of Trees

Niagara Falls ARS

Trees Within IRP Site 3



There are 50 trees within this survey that intersect with the landfill IRP Site 3. Tree points originated from 2018 URS tree survey and were cross referenced with 2019 imagery. All point data is on accompanying spreadsheet with Tree Number corresponding to the tree labels on this map.

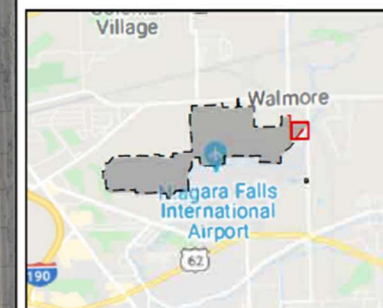
Legend

- IRP Site 3 Landfill
- Niagara Falls ARS Boundary
- Tree Requiring Removal



0 50 100 200 Feet

Produced By: AFRC GIS Office
7 January 2020
afrc.gio@us.af.mil



Notes:

X: Indicates tree removed and landfill cap restored
O: Indicates tree removed prior to field work

Tree #57: Removed prior to field event. Area backfilled to restore landfill cap.

Tree #94: Was not found to be in the location reported during the initial tagging of trees and thus no action was taken.

Tree #68: Was uprooted in a storm prior to field work. Tree was removed and the landfill cap restored.

Tree #76: Fence post encountered during stump grinding. Determined to not be a part of the landfill waste.



Tree Number	Tree Code	Common Name	Latitude	Longitude	LongText	Num.	Height Range (ft.)	Complete
52	FRPE	Green Ash	43.1158991	-78.927485902	-78.9274859	1	26-50	Y
56	FRPE	Green Ash	43.1157868	-78.927715898	-78.9277159	1	26-50	Y
57	FRPE	Green Ash	43.1159047	-78.927751338	-78.9277513	1	26-50	See Comment Below
58	FRPE	Green Ash	43.1162081	-78.928087655	-78.9280877	1	26-50	Y
59	FRPE	Green Ash	43.1163273	-78.928598090	-78.9285981	1	26-50	Y
60	FRPE	Green Ash	43.1163187	-78.928756428	-78.9287564	1	26-50	Y
62	FRPE	Green Ash	43.1158002	-78.928034618	-78.9280346	2	16-25	Y
63	FRPE	Green Ash	43.11578	-78.928198094	-78.9281981	1	26-50	Y
64	FRPE	Green Ash	43.1157186	-78.928321834	-78.9283218	1	16-25	Y
65	FRPE	Green Ash	43.1156822	-78.928437387	-78.9284374	1	26-50	Y
66	FRPE	Green Ash	43.1156288	-78.928533826	-78.9285338	1	16-25	Y
67	FRPE	Green Ash	43.1155959	-78.928677953	-78.928678	1	16-25	Y
68	FRPE	Green Ash	43.1155104	-78.928762820	-78.9287628	1	26-50	Y
69	FRPE	Green Ash	43.1154811	-78.929050455	-78.9290505	1	26-50	Y
70	FRPE	Green Ash	43.1154119	-78.929127033	-78.929127	1	26-50	Y
71	FRPE	Green Ash	43.1153279	-78.929190004	-78.92919	1	16-25	Y
72	FRPE	Green Ash	43.1152211	-78.929219248	-78.9292192	1	26-50	Y
73	FRPE	Green Ash	43.1151801	-78.929097123	-78.9290971	1	26-50	Y
74	FRPE	Green Ash	43.1151562	-78.928966246	-78.9289662	1	26-50	Y
75	FRPE	Green Ash	43.1153956	-78.928778863	-78.9287789	1	26-50	Y



Tree Number	Tree Code	Common Name	Latitude	Longitude	LongText	Num.	Height Range (ft.)	Complete
76	FRPE	Green Ash	43.1152936	-78.928516086	-78.9285161	2	16-25	Y
77	FRPE	Green Ash	43.1153921	-78.928440371	-78.9284404	1	16-25	Y
78	FRPE	Green Ash	43.1155287	-78.928313764	-78.9283138	1	16-25	Y
79	POTR	Quaking Aspen	43.1156158	-78.928217933	-78.9282179	1	16-25	Y
80	FRPE	Green Ash	43.1153011	-78.928199429	-78.9281994	1	26-50	Y
81	FRPE	Green Ash	43.1153743	-78.928116879	-78.9281169	1	26-50	Y
82	FRPE	Green Ash	43.1154166	-78.927764753	-78.9277648	1	26-50	Y
83	FRPE	Green Ash	43.1152574	-78.927893971	-78.927894	1	26-50	Y
84	FRPE	Green Ash	43.1151957	-78.927952260	-78.9279523	2	26-50	Y
85	FRPE	Green Ash	43.115127	-78.928010917	-78.9280109	1	26-50	Y
86	FRPE	Green Ash	43.1150723	-78.928079683	-78.9280797	1	26-50	Y
93	MASP	Flowering Crab	43.1164366	-78.928289786	-78.9282898	1	16-25	Y
94	PRSP	Cherry	43.1164216	-78.928107783	-78.9281078	1	0-15	See Comment Below
96	PIAB	Norway Spruce	43.1167291	-78.928198293	-78.9281983	1	26-50	Y
97	PRSP	Cherry	43.116709	-78.928274285	-78.9282743	1	0-15	Y
98	FRPE	Green Ash	43.1167058	-78.928336025	-78.928336	1	26-50	Y
101	FRPE	Green Ash	43.1167064	-78.928456745	-78.9284567	1	16-25	Y
102	PIGL	White Spruce	43.1167925	-78.928626237	-78.9286262	1	16-25	Y
105	FRPE	Green Ash	43.1167713	-78.928759102	-78.9287591	1	26-50	Y
106	FRPE	Green Ash	43.1166889	-78.928798547	-78.9287985	2	26-50	Y



Tree Number	Tree Code	Common Name	Latitude	Longitude	LongText	Num.	Height Range (ft.)	Complete
107	PIGL	White Spruce	43.1168177	-78.928925679	-78.9289257	1	16-25	Y
108	PIGL	White Spruce	43.1168709	-78.928978796	-78.9289788	1	16-25	Y
109	PIGL	White Spruce	43.1168587	-78.929033373	-78.9290334	1	16-25	Y
110	PIGL	White Spruce	43.1168525	-78.929114905	-78.9291149	1	16-25	Y
111	FRPE	Green Ash	43.1169007	-78.929136572	-78.9291366	1	26-50	Y
112	FRPE	Green Ash	43.1168423	-78.929193738	-78.9291937	1	26-50	Y
113	FRPE	Green Ash	43.1168889	-78.929238129	-78.9292381	1	26-50	Y
114	PIGL	White Spruce	43.1167838	-78.929599259	-78.9295993	1	16-25	Y
115	PIGL	White Spruce	43.1167509	-78.929610221	-78.9296102	1	16-25	Y
116	FRPE	Green Ash	43.1167243	-78.929771883	-78.9297719	1	16-25	Y

Comments:

Tree #57 had already fallen and was removed prior to the commencement of the contract. The depression that remained was backfilled with approved topsoil and seeded.

Tree #94 was not found during the tagging of trees.

Prepared by: Hans White

Site Health and Safety Officer

**Attachment D:
Instrument
Certification of
Calibration**



White Oak
Environmental & Safety

4026 North Hampton Drive
Powell, OH 43065
(614) 389-1430
www.whiteoakenv.com

Certificate of Calibration

Date: December 15th, 2023
White Oak Order# 5116
Technician: Ethan Miller

Customer: TideWater
Customer PO# N/A
Customer Job# N/A

Instrument Info

Manufacturer: Honeywell	Model#: MiniRae 3000	Serial#: 592-602949
Lab Temperature: 70.0 F	Asset# R00259	Within Warranty: Yes

Calibration Data

<u>Sensor</u>	<u>Zero Standard</u>	<u>Sensor Reading</u>	<u>Span Standard</u>	<u>Sensor Reading</u>
VOC	0.0 PPM	0.0 PPM	100 PPM	100 PPM

Calibration Standards

<u>Zero Air (20.9% Oxygen, Balance Nitrogen)</u>		
Lot# 276718	Manufacturer: Porta Gas	Expiration Date: 3/15/2026
<u>100 PPM Isobutylene</u>		
Lot# 304-402735302-1	Manufacturer: Gasco	Expiration Date: 7/18/2027

Technician Signature: _____

All Standards Used Are NIST Traceable
Instrument Should Be Calibrated And Operated According To Manufacturers' Recommendations



TSI INCORPORATED – OCONOMOWOC

1060 Corporate Center Drive, Oconomowoc, WI 53066 USA
tel 651 490 2811 + toll free 800 245 0779 + web www.tsi.com

Page 1 of 1

An ISO 9001
Registered Company

Certificate of Calibration

Certificate No: 1106274A AC300009657

Submitted By: APTIM
16406 E US ROUTE 224 BAY 5
FINDLAY, OH 45840

Serial Number: AC300009657

Date Received: 7/26/2023

Customer ID: LVE003289

Date Issued: 8/17/2023

Model: AC-300 CALIBRATOR

Valid Until: 8/17/2024

Test Conditions:

Temperature: 18°C to 29°C

Humidity: 20% to 80%

Barometric Pressure: 890 mbar to 1050 mbar

Model Conditions:

As Found: IN TOLERANCE

As Left: IN TOLERANCE

SubAssemblies:

Description:

Serial Number:

Calibrated per Procedure: 057V879

Reference Standard(s):

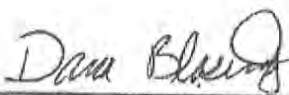
I.D. Number	Device
ET0000556	B&K ENSEMBLE

Last Calibration	Date Calibration Due
6/6/2022	6/6/2024

Measurement Uncertainty:

ACOUSTIC +/- 0.19DB FREQUENCY +/- 0.058%
Estimated at 95% Confidence Level (k=2)

Calibrated By:


DANA BLASING

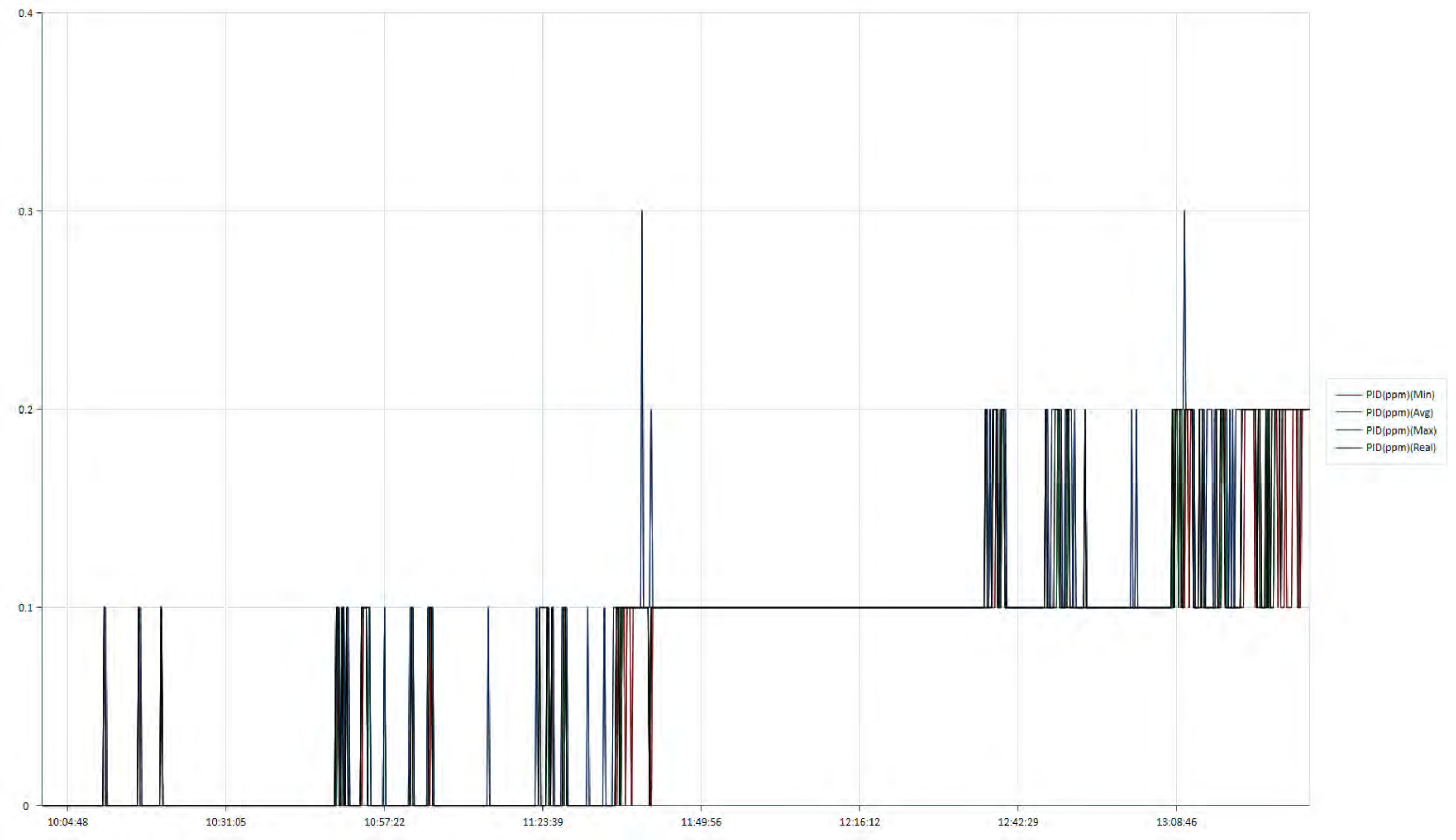
Service Technician

8/17/2023

This report certifies that all calibration equipment used in the test is traceable to NIST, and applies only to the unit identified under equipment above. This report must not be reproduced except in its entirety without the written approval of TSI Incorporated.

Attachment E:
Monitoring Data Reports

PID Monitoring Report
December 18, 2023



Sound Monitoring Report
December 18, 2023

Session Report

12/19/2023

Information Panel

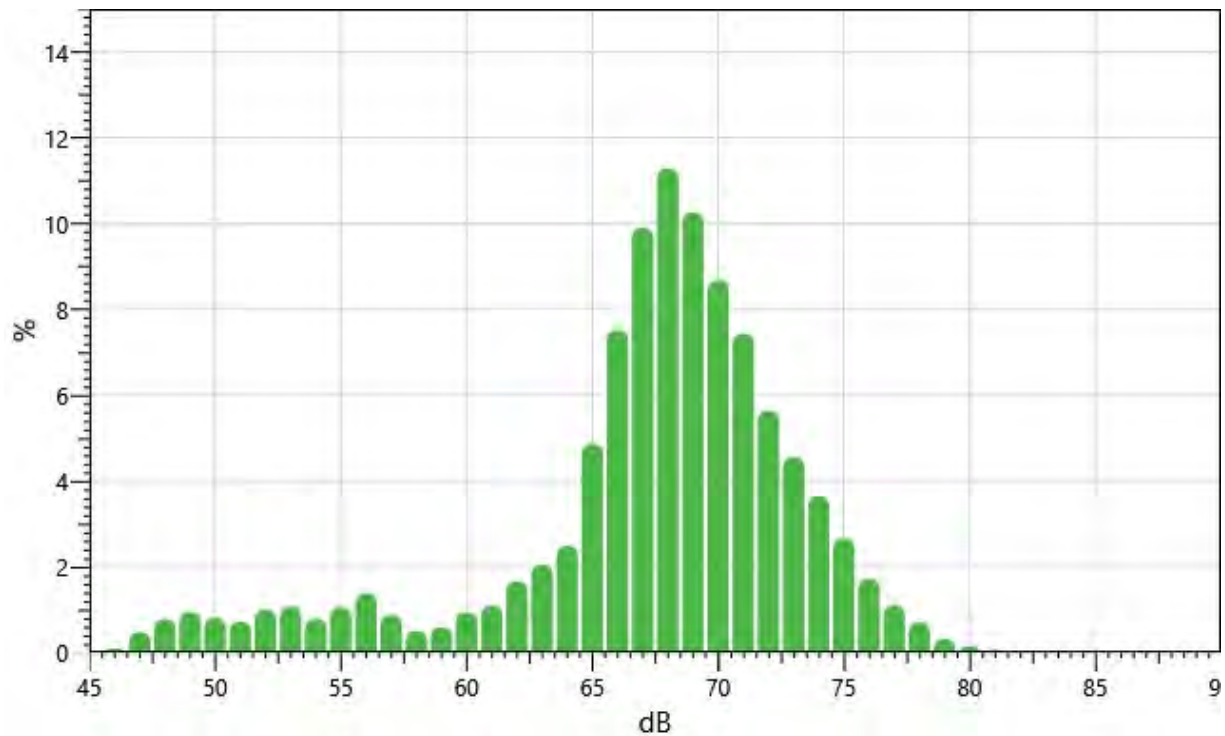
Name S003_BAR080001_19122023_154517
Start Time 12/18/2023 9:06:21 AM
Stop Time 12/18/2023 12:12:23 PM
Device Name BAR080001
Model Type SoundPro SE
Device Firmware Rev R.13J
Comments

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
LDN	1	70.5 dB	Lmax	1	86.2 dB
Lmin	1	45.2 dB			

Statistics Chart

S003_BAR080001_19122023_154517: Statistics Chart



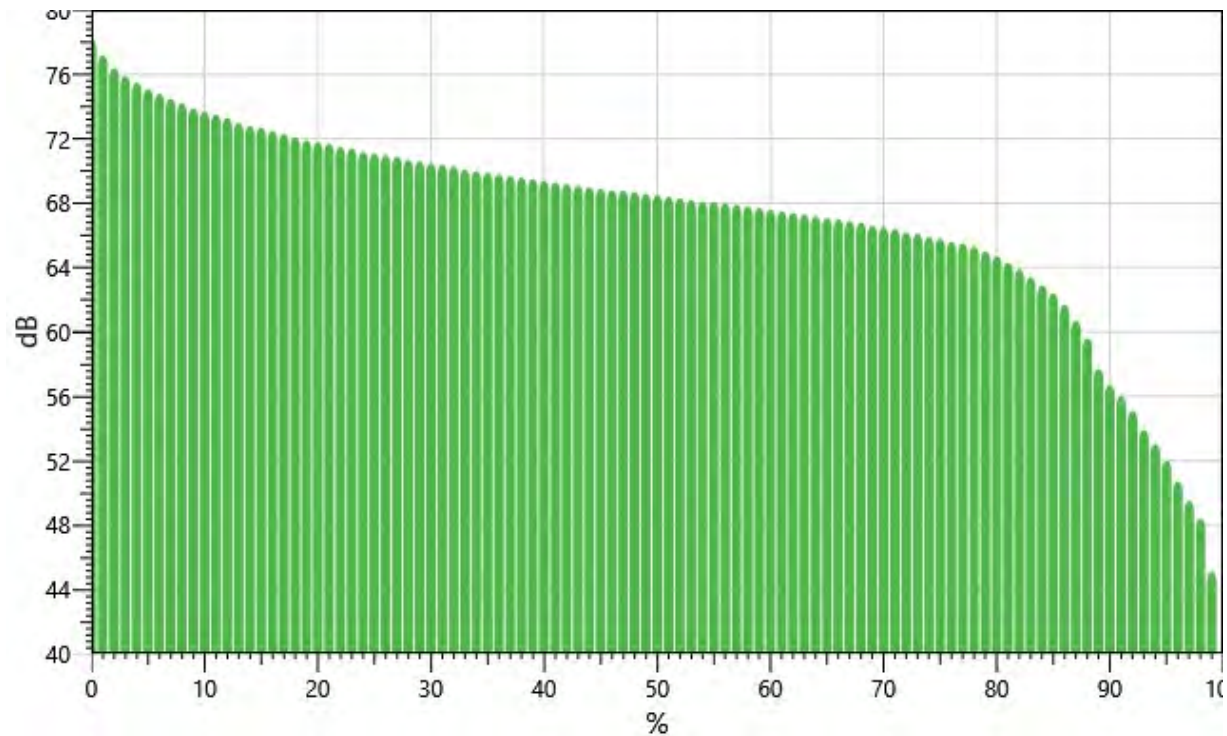
Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
45:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
46:	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.10
47:	0.03	0.03	0.04	0.05	0.06	0.05	0.06	0.06	0.05	0.06	0.48
48:	0.07	0.07	0.05	0.08	0.08	0.09	0.08	0.09	0.09	0.09	0.78
49:	0.10	0.11	0.09	0.10	0.09	0.09	0.09	0.09	0.10	0.09	0.95
50:	0.09	0.09	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.07	0.82
51:	0.08	0.09	0.05	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.72
52:	0.09	0.09	0.09	0.10	0.10	0.11	0.10	0.11	0.11	0.11	1.01
53:	0.12	0.11	0.10	0.11	0.11	0.11	0.10	0.11	0.11	0.09	1.07
54:	0.09	0.10	0.06	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.80
55:	0.09	0.09	0.10	0.11	0.11	0.11	0.11	0.11	0.10	0.11	1.06
56:	0.11	0.13	0.14	0.14	0.16	0.16	0.14	0.14	0.13	0.14	1.39
57:	0.14	0.13	0.07	0.09	0.09	0.08	0.07	0.07	0.07	0.07	0.88
58:	0.06	0.05	0.06	0.05	0.05	0.06	0.05	0.05	0.04	0.04	0.51
59:	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.08	0.08	0.08	0.60
60:	0.09	0.09	0.06	0.09	0.09	0.09	0.11	0.10	0.11	0.11	0.94
61:	0.11	0.11	0.11	0.11	0.10	0.11	0.11	0.12	0.11	0.12	1.10
62:	0.14	0.14	0.14	0.17	0.17	0.17	0.18	0.17	0.19	0.20	1.66
63:	0.20	0.21	0.15	0.21	0.22	0.21	0.22	0.20	0.21	0.22	2.05
64:	0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.28	0.30	2.49
65:	0.33	0.37	0.41	0.45	0.45	0.48	0.52	0.56	0.63	0.67	4.86
66:	0.71	0.77	0.55	0.73	0.75	0.77	0.79	0.80	0.80	0.86	7.52
67:	0.86	0.93	0.96	0.99	1.00	1.00	1.02	1.04	1.05	1.07	9.91
68:	1.08	1.10	1.11	1.14	1.15	1.13	1.14	1.17	1.13	1.14	11.29
69:	1.17	1.21	0.90	1.00	1.06	1.02	1.01	0.98	0.97	0.94	10.26
70:	0.94	0.90	0.89	0.88	0.87	0.86	0.88	0.83	0.83	0.80	8.68
71:	0.81	0.74	0.77	0.76	0.75	0.74	0.73	0.72	0.70	0.70	7.43
72:	0.68	0.69	0.60	0.35	0.58	0.56	0.56	0.55	0.55	0.52	5.64
73:	0.51	0.50	0.49	0.46	0.46	0.45	0.43	0.43	0.42	0.40	4.56
74:	0.42	0.39	0.38	0.37	0.35	0.34	0.34	0.36	0.36	0.34	3.64
75:	0.34	0.34	0.33	0.21	0.27	0.25	0.25	0.23	0.23	0.21	2.66
76:	0.22	0.20	0.19	0.18	0.17	0.16	0.16	0.15	0.15	0.14	1.72
77:	0.13	0.13	0.12	0.11	0.12	0.11	0.10	0.10	0.09	0.09	1.11
78:	0.10	0.09	0.08	0.06	0.08	0.07	0.06	0.06	0.05	0.05	0.70
79:	0.05	0.04	0.04	0.04	0.03	0.03	0.03	0.02	0.03	0.02	0.32
80:	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.14
81:	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.00	0.07

82:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
83:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
84:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Exceedance Chart

S003_BAR080001_19122023_154517: Exceedance Chart



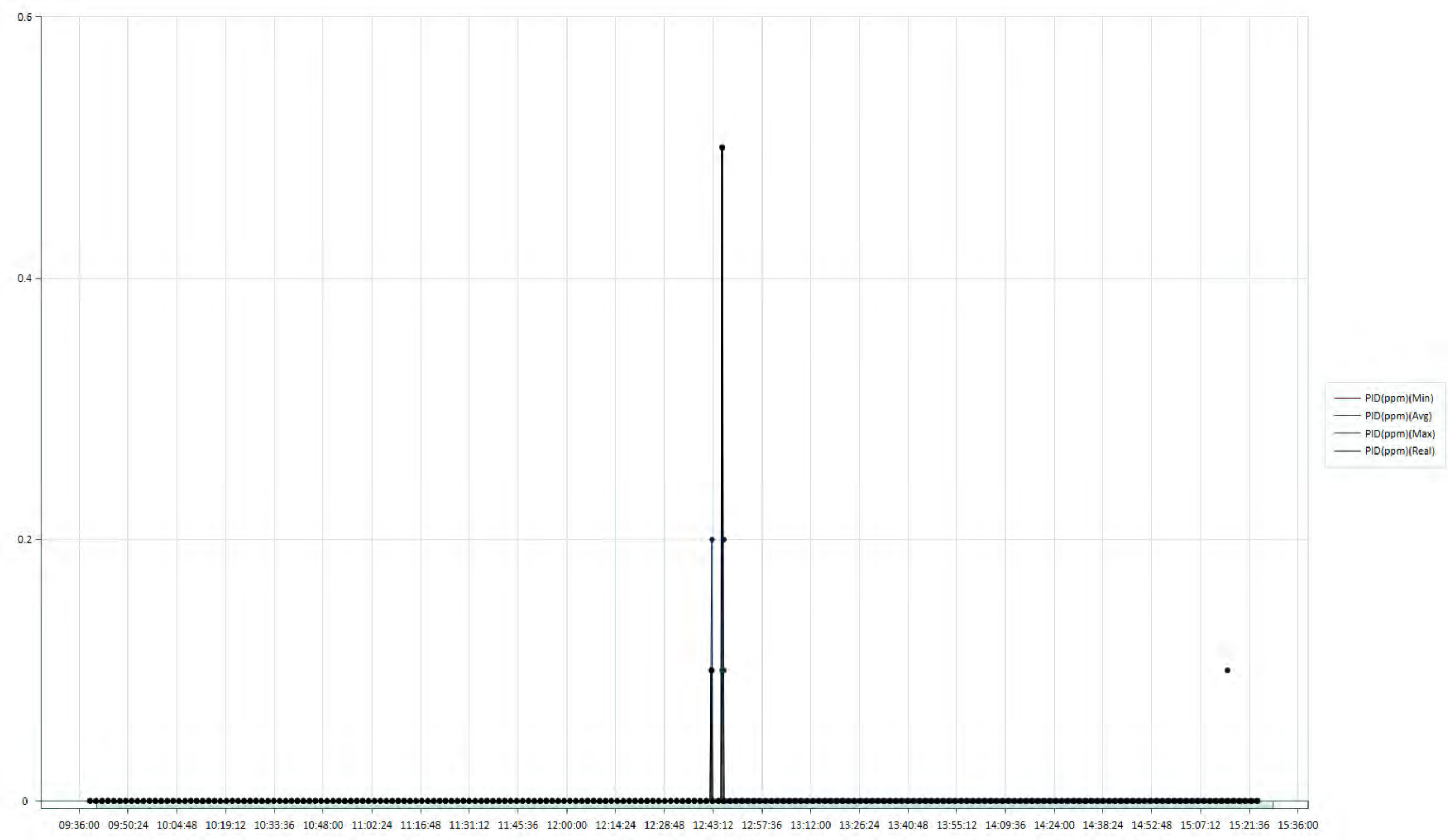
Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		78.2	77.2	76.4	75.9	75.5	75.1	74.8	74.5	74.2
10%:	73.9	73.7	73.5	73.3	73.0	72.8	72.7	72.5	72.3	72.1
20%:	71.9	71.8	71.7	71.5	71.4	71.2	71.1	71.0	70.9	70.7
30%:	70.6	70.5	70.4	70.3	70.1	70.0	69.9	69.8	69.7	69.6
40%:	69.5	69.4	69.3	69.2	69.1	69.0	68.9	68.8	68.8	68.7
50%:	68.6	68.5	68.4	68.3	68.2	68.1	68.1	68.0	67.9	67.8
60%:	67.7	67.6	67.5	67.4	67.3	67.2	67.1	67.0	66.9	66.8
70%:	66.6	66.5	66.4	66.2	66.1	65.9	65.8	65.6	65.5	65.3
80%:	65.0	64.7	64.3	63.9	63.4	62.9	62.4	61.7	60.7	59.6
90%:	57.7	56.7	56.0	55.1	53.9	53.0	52.0	50.7	49.5	48.4
100%:	45.1									

Summary Data Panel

<u>Description</u>	<u>Meter</u>	<u>Value</u>	<u>Description</u>	<u>Meter</u>	<u>Value</u>
Dose	1	--	Lpk	1	101.9 dB
Lmax	1	85.9 dB			
Weighting	1	A	Response	1	FAST
Bandwidth	1	OFF	Exchange Rate	1	3 dB
Integrating Threshold	1	100 dB	Log Rate	1	--
Exchange Rate	2	3 dB	Integrating Threshold	2	100 dB
Weighting	2	Z	Response	2	FAST

PID Monitoring Report
December 19, 2023



Sound Monitoring Report
December 19, 2023

Session Report

12/19/2023

Information Panel

Name S004_BAR080001_19122023_153828

Start Time 12/19/2023 9:07:16 AM

Stop Time 12/19/2023 2:53:27 PM

Device Name BAR080001

Model Type SoundPro SE

Device Firmware Rev R.13J

Comments

Company Name

Description

Location

Run Time 05:46:11

Serial Number BAR080001

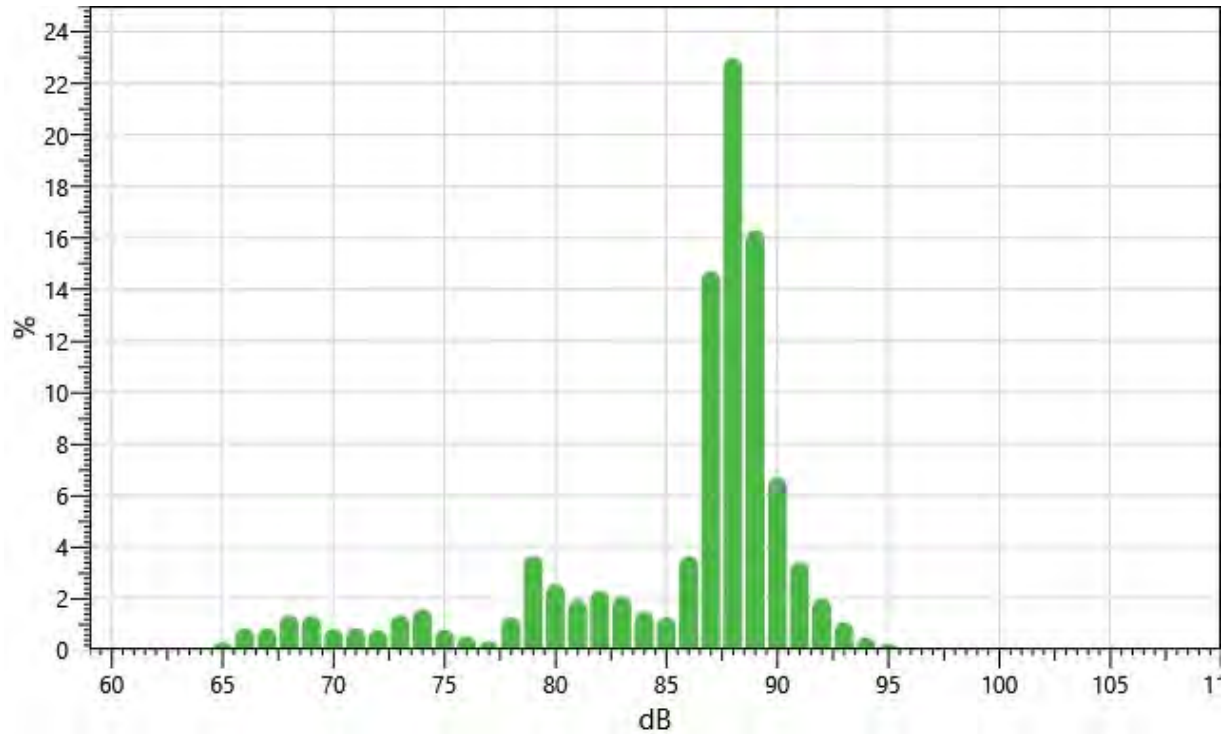
User Name

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Lmin	1	59.6 dB	Lmax	1	103.5 dB
LDN	1	88 dB			

Statistics Chart

S004_BAR080001_19122023_153828: Statistics Chart



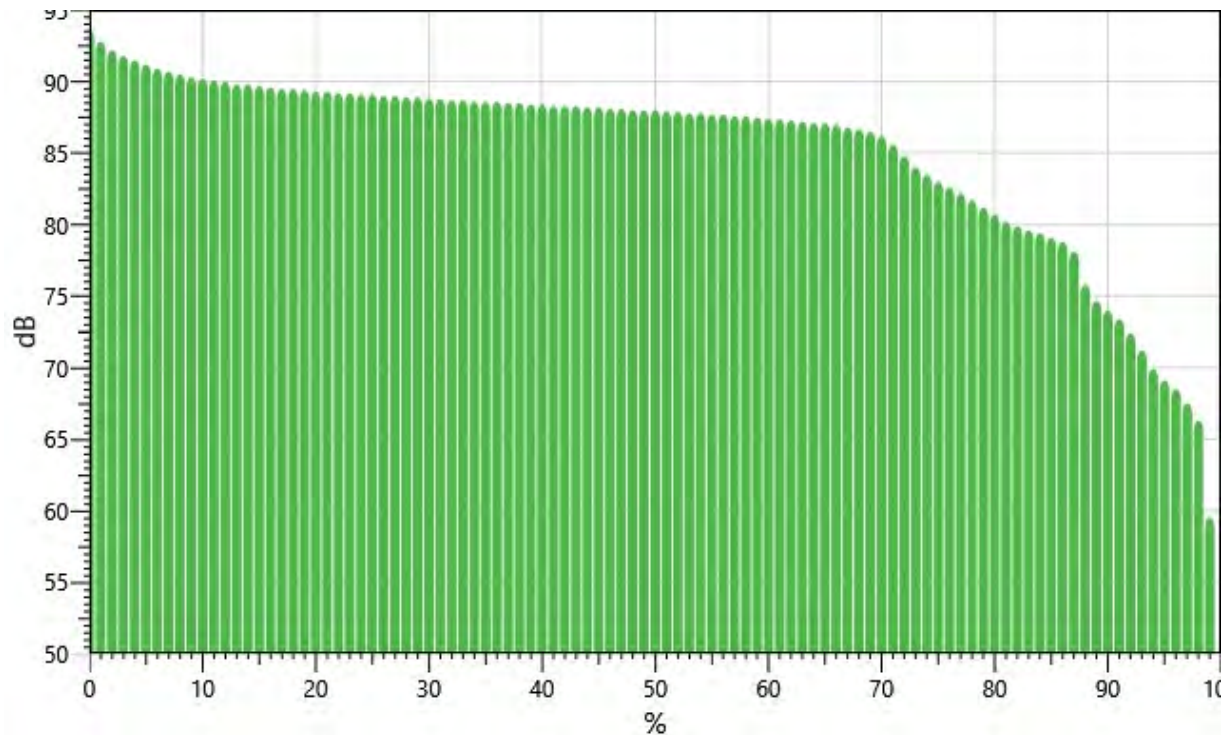
Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
59:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60:	0.00	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.09
61:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.08
62:	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.05
63:	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.04
64:	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.06
65:	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.05	0.06	0.29
66:	0.07	0.08	0.06	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.83
67:	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.10	0.82
68:	0.09	0.11	0.11	0.12	0.13	0.13	0.15	0.16	0.17	0.18	1.33
69:	0.18	0.19	0.13	0.14	0.14	0.13	0.11	0.10	0.10	0.09	1.32
70:	0.08	0.08	0.07	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.80
71:	0.09	0.09	0.09	0.09	0.08	0.09	0.08	0.08	0.07	0.08	0.84
72:	0.08	0.08	0.07	0.05	0.08	0.08	0.08	0.08	0.08	0.08	0.77
73:	0.09	0.09	0.11	0.12	0.13	0.15	0.15	0.16	0.16	0.17	1.33
74:	0.17	0.18	0.18	0.17	0.17	0.16	0.15	0.14	0.13	0.12	1.59
75:	0.11	0.10	0.10	0.06	0.08	0.07	0.07	0.07	0.07	0.07	0.78

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
76:	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.52
77:	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.34
78:	0.05	0.05	0.07	0.06	0.09	0.13	0.16	0.19	0.22	0.25	1.26
79:	0.28	0.32	0.34	0.37	0.38	0.39	0.39	0.40	0.39	0.38	3.64
80:	0.36	0.34	0.32	0.28	0.26	0.23	0.21	0.19	0.18	0.19	2.55
81:	0.18	0.19	0.20	0.14	0.20	0.20	0.20	0.21	0.21	0.22	1.94
82:	0.23	0.24	0.23	0.24	0.23	0.23	0.23	0.22	0.21	0.22	2.29
83:	0.23	0.22	0.21	0.21	0.20	0.20	0.20	0.19	0.19	0.20	2.05
84:	0.18	0.18	0.19	0.12	0.15	0.15	0.13	0.13	0.12	0.13	1.49
85:	0.13	0.12	0.12	0.11	0.12	0.12	0.12	0.13	0.14	0.14	1.26
86:	0.16	0.18	0.20	0.24	0.29	0.34	0.42	0.49	0.59	0.73	3.64
87:	0.88	1.05	1.24	0.98	1.41	1.57	1.69	1.84	1.95	2.09	14.71
88:	2.17	2.25	2.29	2.32	2.35	2.38	2.37	2.35	2.27	2.24	22.97
89:	2.16	2.04	1.94	1.83	1.71	1.58	1.44	1.34	1.17	1.09	16.30
90:	0.98	0.92	0.87	0.63	0.61	0.61	0.57	0.52	0.51	0.48	6.70
91:	0.44	0.42	0.38	0.36	0.35	0.32	0.32	0.29	0.27	0.26	3.41
92:	0.24	0.24	0.23	0.22	0.20	0.19	0.18	0.18	0.17	0.16	1.99
93:	0.15	0.14	0.14	0.12	0.09	0.10	0.09	0.09	0.08	0.07	1.07
94:	0.07	0.06	0.06	0.05	0.05	0.04	0.04	0.04	0.04	0.03	0.48
95:	0.03	0.03	0.03	0.02	0.03	0.02	0.02	0.02	0.02	0.01	0.23
96:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.08
97:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
98:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
99:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Exceedance Chart

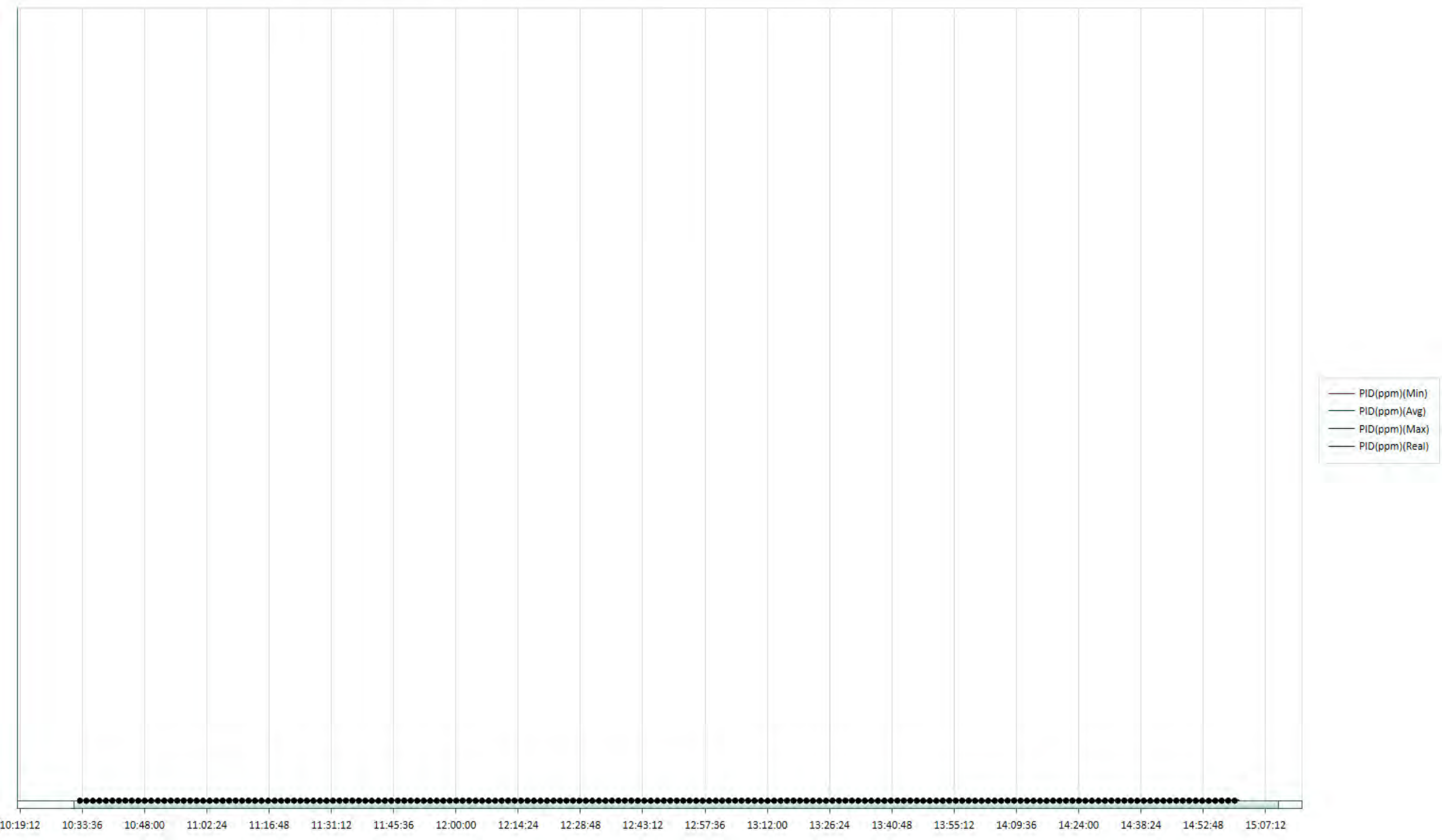
S004_BAR080001_19122023_153828: Exceedance Chart



Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		93.6	92.8	92.2	91.8	91.5	91.2	90.9	90.7	90.5
10%:	90.3	90.2	90.1	90.0	89.8	89.8	89.7	89.6	89.5	89.5
20%:	89.4	89.3	89.3	89.2	89.2	89.1	89.1	89.0	89.0	88.9
30%:	88.9	88.8	88.8	88.7	88.7	88.6	88.6	88.6	88.5	88.5
40%:	88.4	88.4	88.3	88.3	88.3	88.2	88.2	88.1	88.1	88.0
50%:	88.0	88.0	87.9	87.9	87.8	87.8	87.7	87.7	87.6	87.6
60%:	87.5	87.4	87.4	87.3	87.2	87.1	87.1	87.0	86.8	86.7
70%:	86.5	86.2	85.6	84.8	84.0	83.5	83.0	82.6	82.2	81.7
80%:	81.2	80.7	80.2	79.9	79.6	79.4	79.1	78.8	78.1	75.8
90%:	74.7	74.0	73.4	72.4	71.2	69.9	69.1	68.5	67.5	66.3
100%:	59.5									

PID Monitoring Report
December 20, 2023



Sound Monitoring Report
December 20, 2023

Session Report

12/20/2023

Information Panel

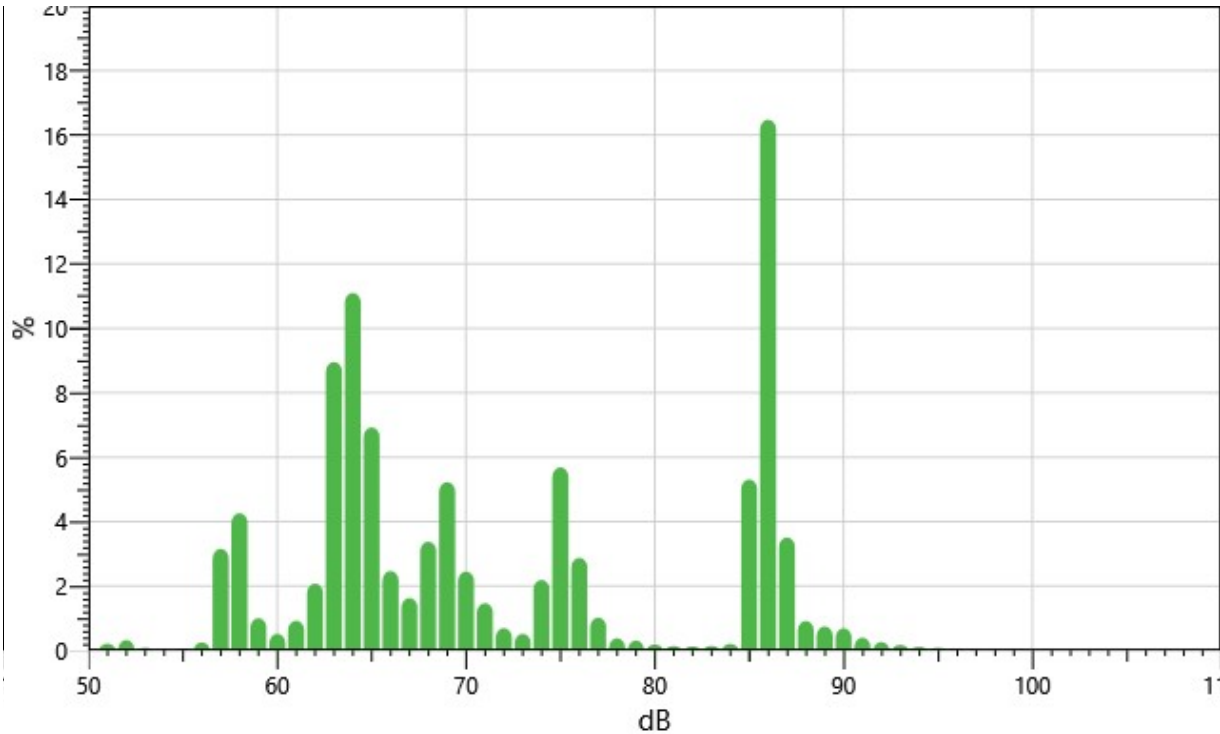
Name	S006_BAR080001_20122023_152923
Start Time	12/20/2023 10:03:57 AM
Stop Time	12/20/2023 1:58:05 PM
Device Name	BAR080001
Model Type	SoundPro SE
Device Firmware Rev	R.13J
Comments	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
LDN	1	82.2 dB	Lmax	1	101.6 dB
Lmin	1	50 dB			

Statistics Chart

S006_BAR080001_20122023_152923: Statistics Chart



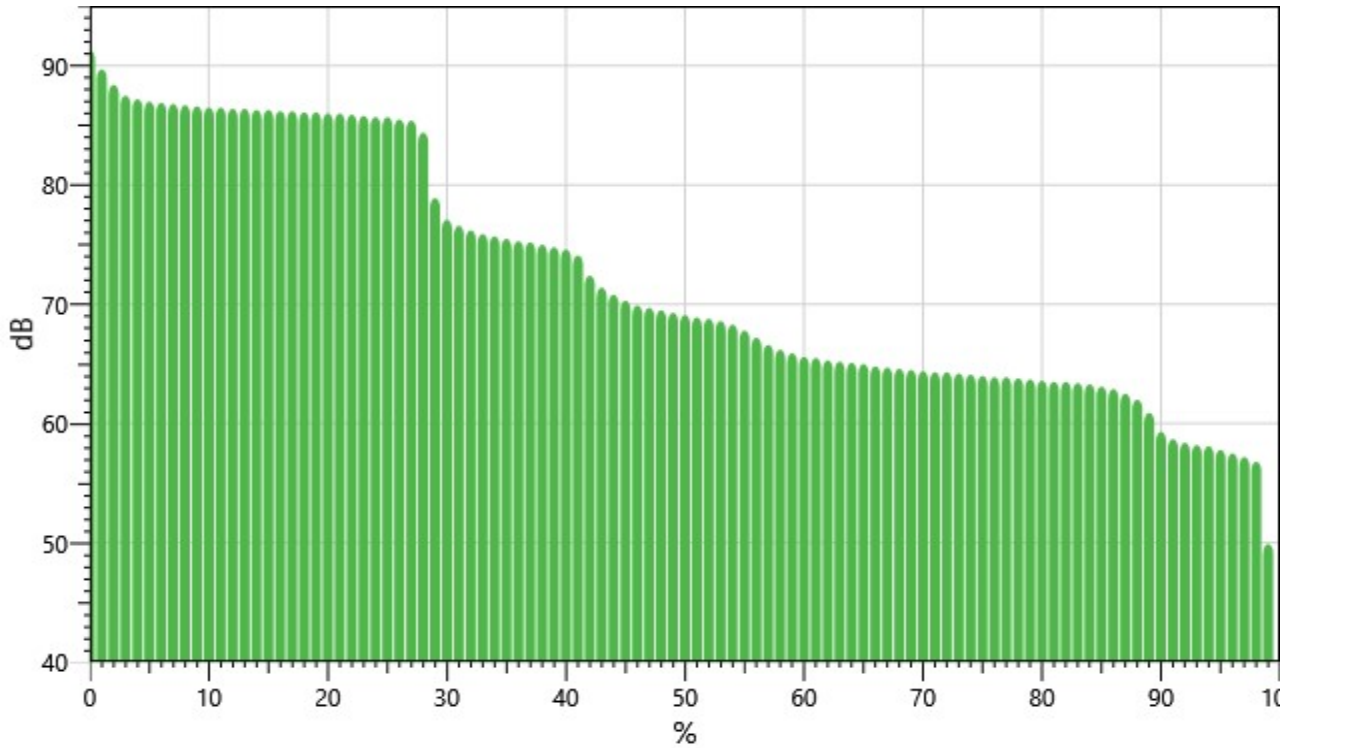
Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
50:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
51:	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.04	0.04	0.04	0.22
52:	0.05	0.05	0.04	0.04	0.03	0.03	0.03	0.02	0.02	0.02	0.33
53:	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.09
54:	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
55:	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.06
56:	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.06	0.11	0.26
57:	0.19	0.31	0.24	0.39	0.40	0.37	0.35	0.31	0.30	0.29	3.16
58:	0.36	0.44	0.54	0.57	0.57	0.51	0.43	0.35	0.28	0.21	4.26
59:	0.16	0.14	0.12	0.11	0.10	0.09	0.08	0.08	0.07	0.07	1.01
60:	0.07	0.06	0.03	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.52
61:	0.06	0.08	0.09	0.10	0.11	0.11	0.10	0.09	0.09	0.10	0.93
62:	0.10	0.13	0.15	0.18	0.21	0.25	0.26	0.26	0.26	0.28	2.08
63:	0.34	0.46	0.42	0.70	0.88	1.08	1.20	1.27	1.30	1.31	8.96
64:	1.27	1.28	1.23	1.17	1.18	1.08	1.05	0.98	0.95	0.92	11.10
65:	0.89	0.83	0.78	0.75	0.72	0.73	0.68	0.59	0.51	0.44	6.92
66:	0.39	0.34	0.22	0.27	0.25	0.24	0.21	0.20	0.18	0.17	2.47
67:	0.16	0.16	0.16	0.17	0.16	0.16	0.17	0.16	0.16	0.16	1.63
68:	0.17	0.19	0.23	0.27	0.31	0.34	0.40	0.45	0.48	0.55	3.38
69:	0.63	0.70	0.52	0.58	0.57	0.53	0.49	0.43	0.41	0.38	5.23
70:	0.34	0.31	0.27	0.25	0.23	0.22	0.22	0.22	0.20	0.19	2.45
71:	0.18	0.17	0.17	0.16	0.16	0.15	0.14	0.12	0.11	0.10	1.47
72:	0.09	0.10	0.08	0.05	0.07	0.07	0.06	0.06	0.06	0.05	0.70
73:	0.05	0.06	0.06	0.05	0.05	0.05	0.04	0.05	0.05	0.06	0.52
74:	0.08	0.09	0.10	0.12	0.15	0.20	0.26	0.32	0.39	0.50	2.19
75:	0.58	0.64	0.73	0.45	0.64	0.61	0.58	0.53	0.47	0.45	5.69
76:	0.41	0.37	0.35	0.31	0.31	0.26	0.25	0.23	0.21	0.19	2.88
77:	0.18	0.16	0.14	0.12	0.10	0.09	0.07	0.06	0.06	0.05	1.02
78:	0.05	0.05	0.05	0.03	0.04	0.03	0.03	0.04	0.04	0.03	0.39
79:	0.03	0.03	0.03	0.04	0.04	0.04	0.03	0.03	0.02	0.03	0.32
80:	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.19
81:	0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.01	0.14
82:	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.13
83:	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.14
84:	0.02	0.02	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.04	0.21
85:	0.06	0.09	0.14	0.22	0.33	0.47	0.65	0.88	1.13	1.34	5.31
86:	1.56	1.73	1.91	1.95	1.94	1.81	1.70	1.53	1.30	1.06	16.48

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
87:	0.86	0.68	0.54	0.30	0.30	0.24	0.19	0.15	0.14	0.12	3.51
88:	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.08	0.08	0.09	0.92
89:	0.09	0.08	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.08	0.75
90:	0.08	0.09	0.09	0.07	0.06	0.06	0.06	0.06	0.06	0.05	0.69
91:	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.40
92:	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.02	0.02	0.02	0.27
93:	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.01	0.18
94:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.12
95:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.09
96:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.07
97:	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.04
98:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
99:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
100:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Exceedance Chart

S006_BAR080001_20122023_152923: Exceedance Chart



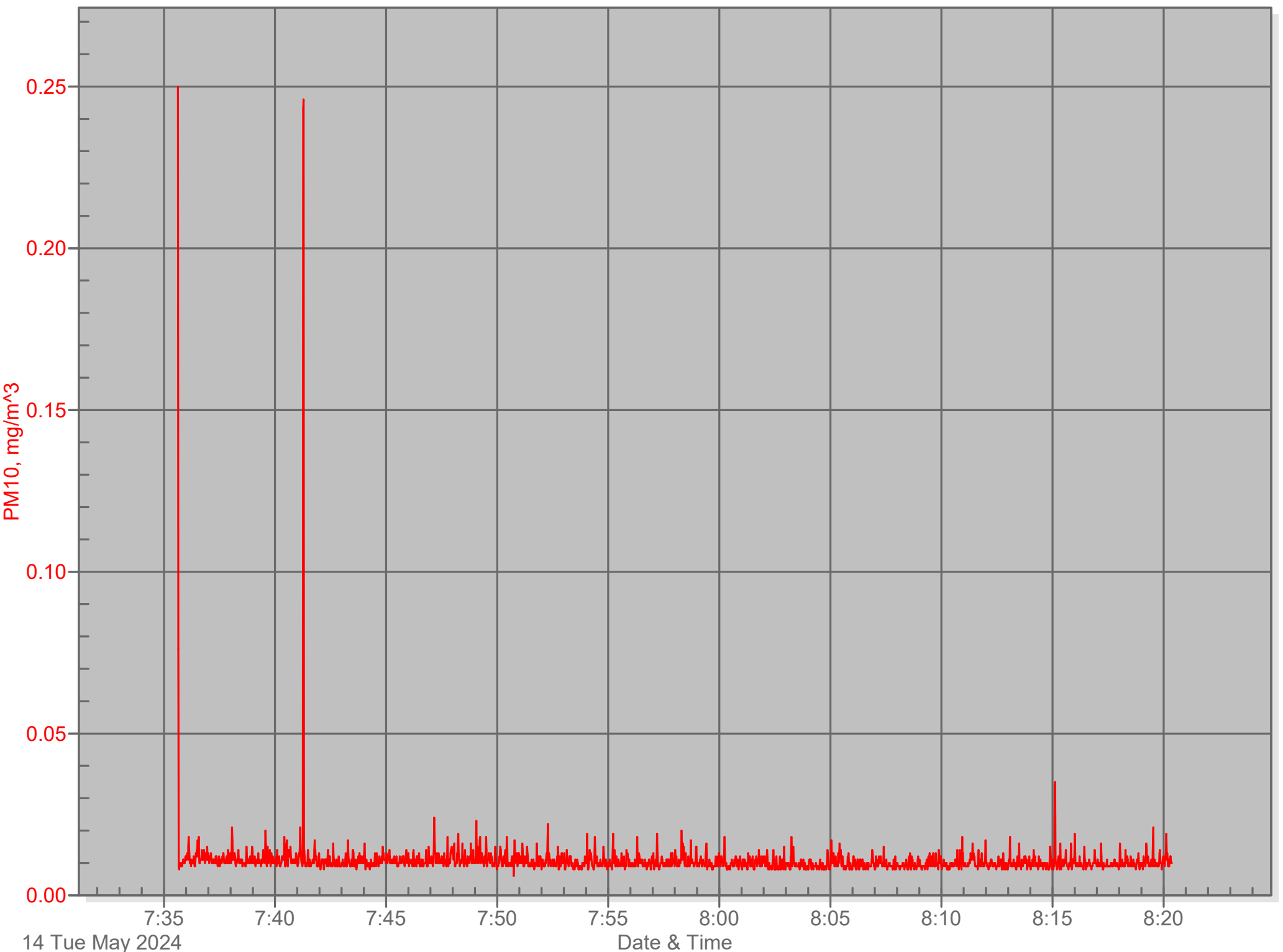
Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:	91.3	89.7	88.4	87.5	87.2	87.0	86.9	86.8	86.7	

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
10%:	86.6	86.5	86.5	86.4	86.4	86.3	86.3	86.2	86.2	86.1
20%:	86.1	86.0	86.0	85.9	85.8	85.7	85.7	85.5	85.4	84.4
30%:	78.9	77.1	76.6	76.2	75.9	75.7	75.5	75.3	75.2	75.0
40%:	74.8	74.6	74.1	72.4	71.4	70.8	70.3	69.9	69.7	69.5
50%:	69.3	69.1	68.9	68.8	68.6	68.3	67.8	67.2	66.6	66.2
60%:	65.9	65.6	65.5	65.3	65.2	65.1	65.0	64.8	64.7	64.6
70%:	64.5	64.4	64.3	64.3	64.2	64.1	64.0	63.9	63.9	63.8
80%:	63.7	63.6	63.5	63.5	63.4	63.3	63.1	62.9	62.5	62.0
90%:	60.9	59.3	58.7	58.4	58.2	58.1	57.8	57.5	57.2	56.8
100%:	49.9									

Particulate Monitoring Report
May 14, 2024

05142024 Northern Area Upwind

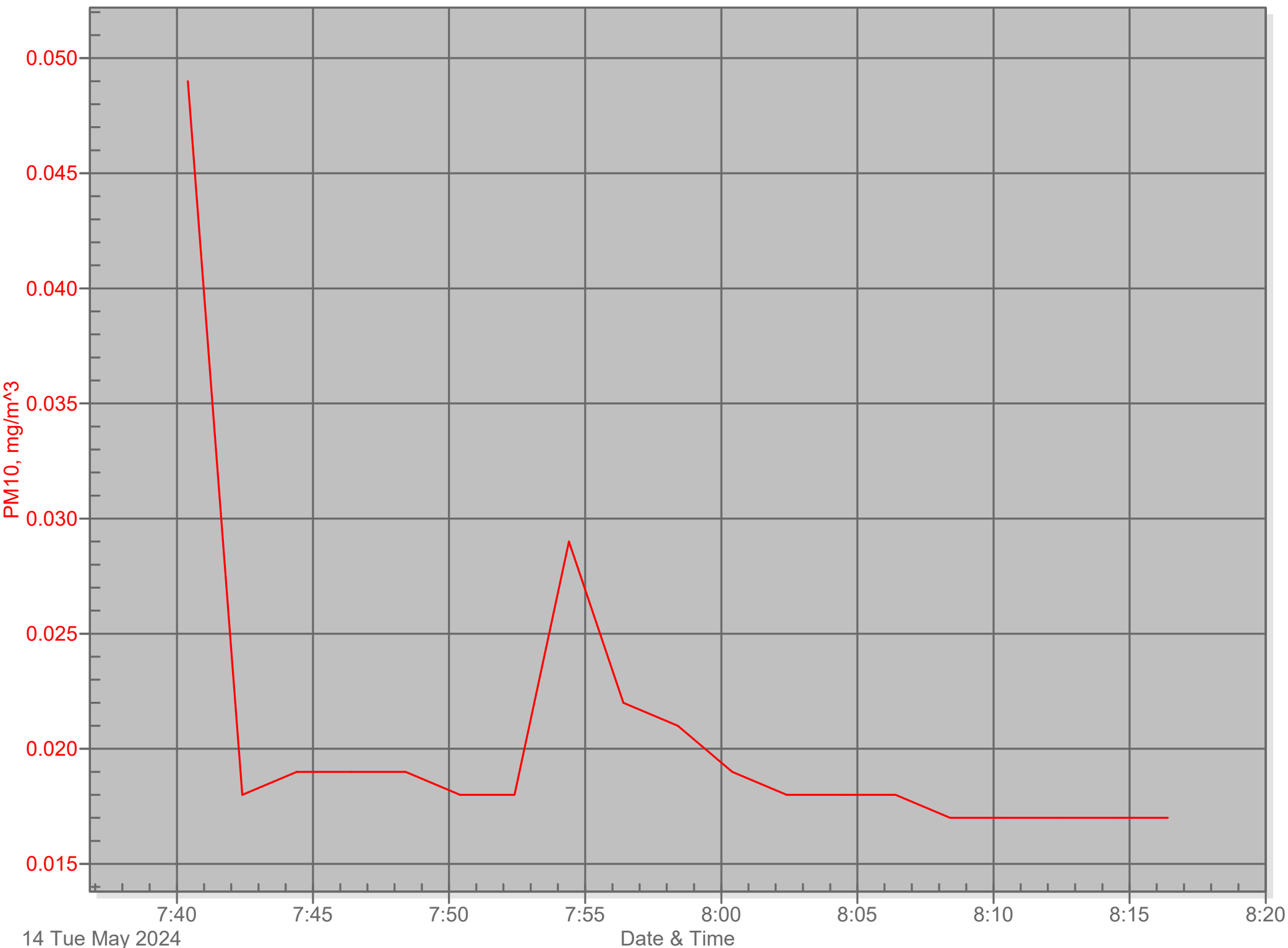


05142024 Northern Area Upwind

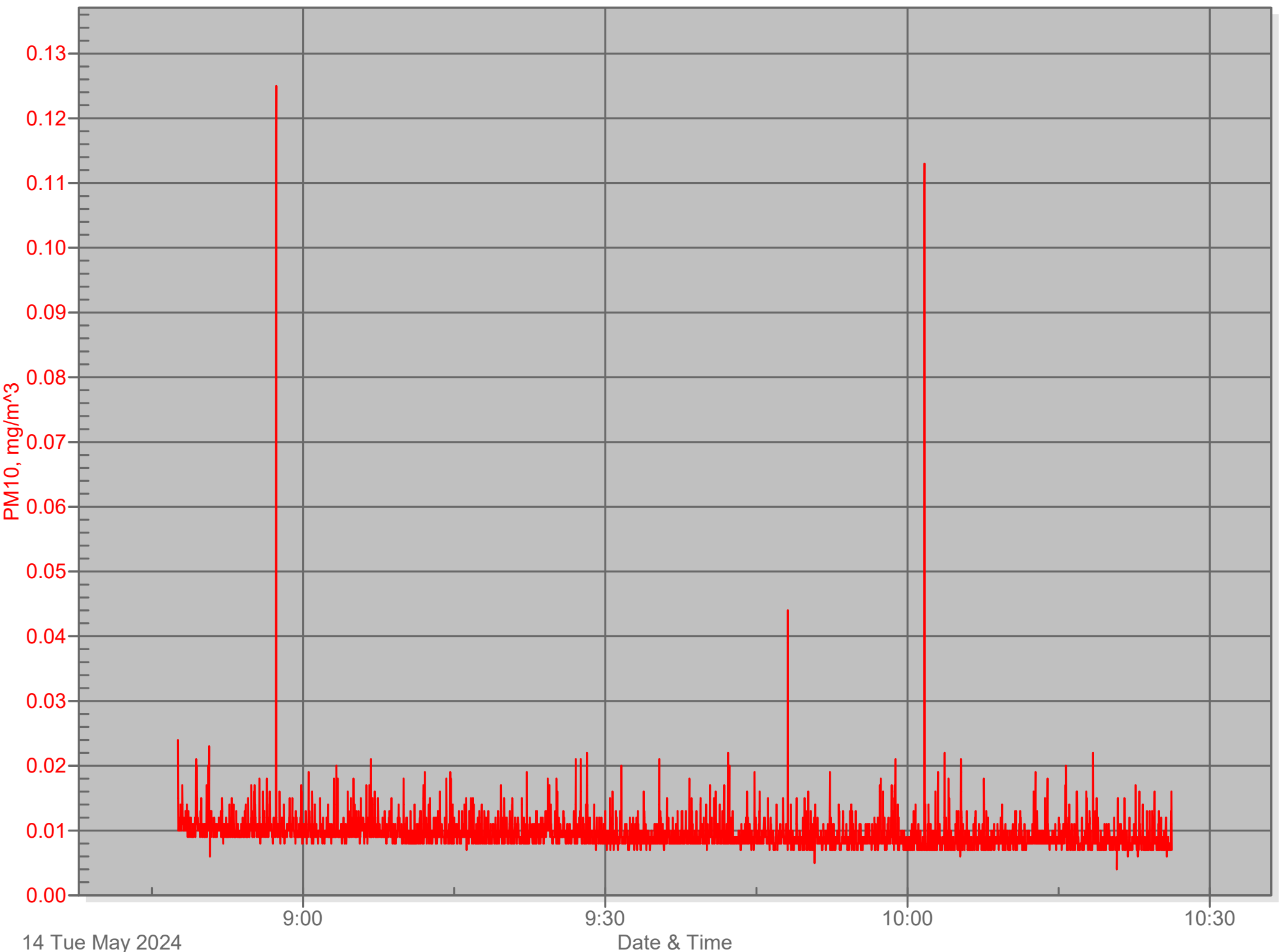
Notes

- 1. Initial spike occurred during initial set up and first reading**
- 2. Second spike occurred due to checking up wind reading (not reflected in downwind data)**

05142024 Northern Area Downwind



05142024 Southern Area Upwind

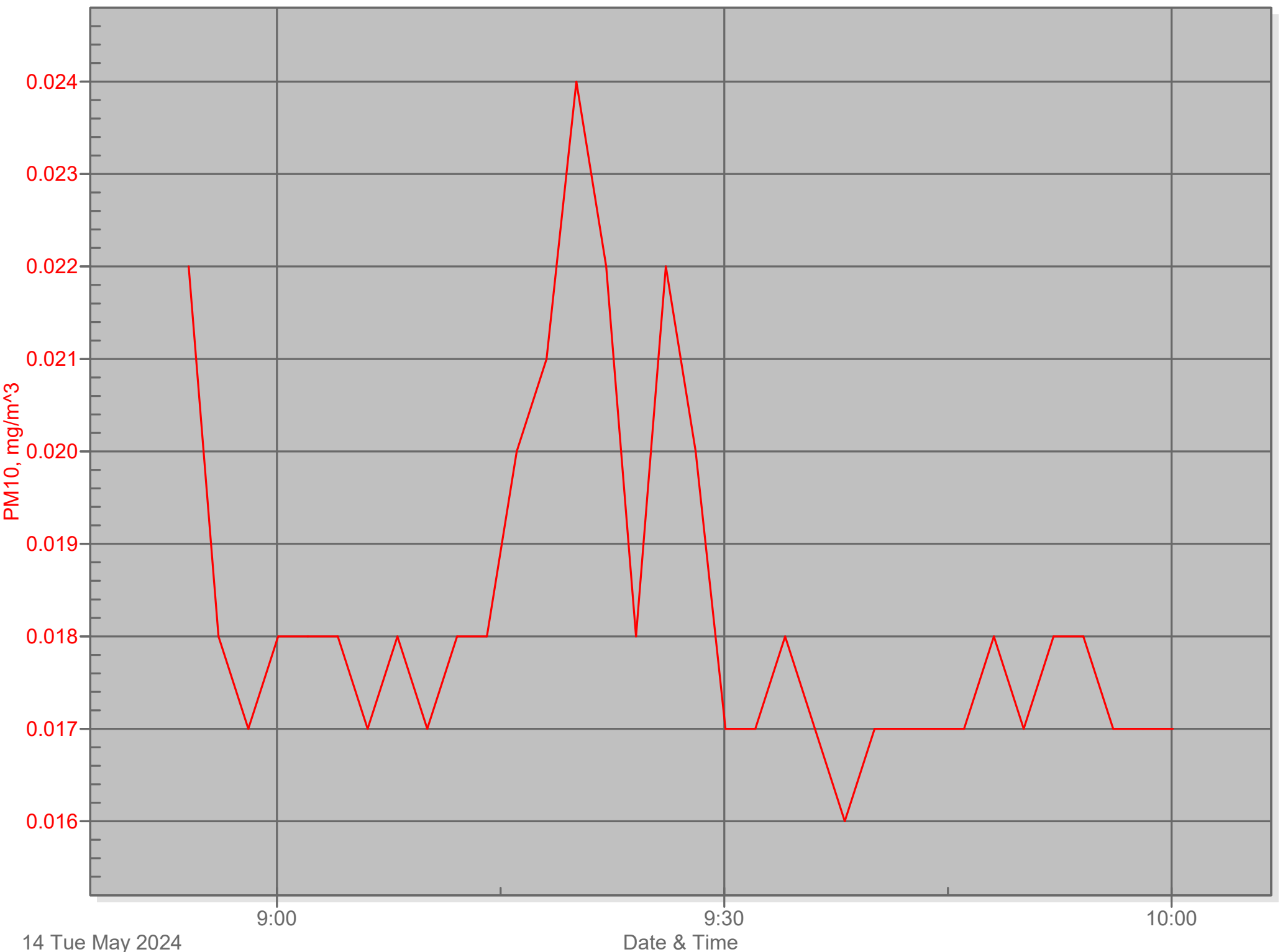


05142024 Southern Area Upwind

Notes

1. **First spike occurred during first check following setup (not reflected in downwind data)**
2. **Second spike occurred due to jet activity during monitoring (not reflected downwind)**

05142024 Southern Area Downwind



PID Monitoring Data
May 14, 2024

Complete Datalog

Current Event:00/01/01 00:35

Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-000821
Unit Firmware Ver	V2.16

Running Mode	Search Mode
Datalog Mode	Auto
Diagnostic Mode	No
Stop Reason	Stop by User

Site ID	RAE00233
User ID	00000001

Begin	1/1/2000 00:35:42
End	1/1/2000 02:18:35
Sample Period(s)	60
Number of Records	102

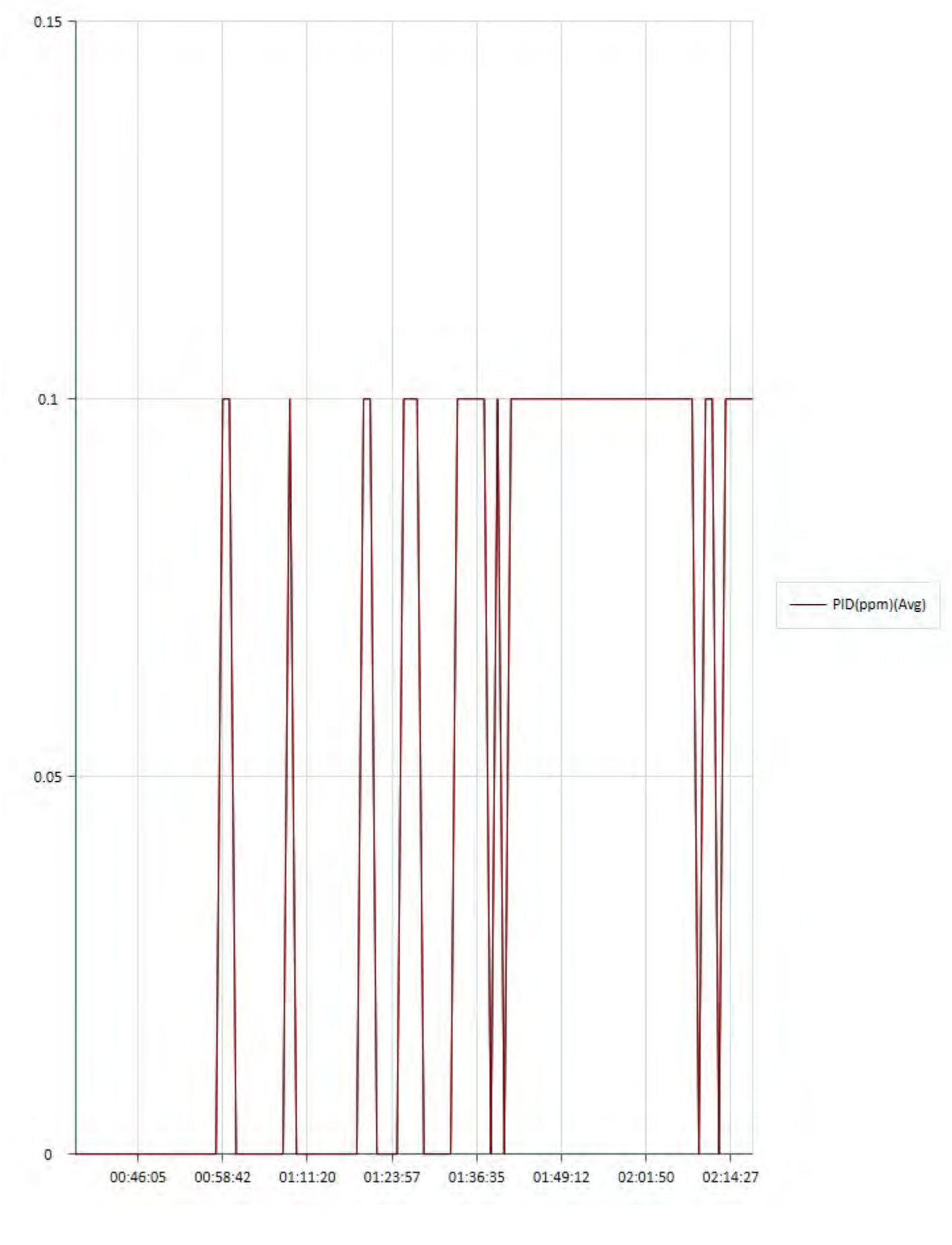
Sensor	PID(ppm)
Sensor SN	S0092J1W0061
Measure Type	Avg
Span	100.0
Span 2	1000.0
Low Alarm	50.0
High Alarm	100.0
Over Alarm	15000.0
STEL Alarm	100.0
TWA Alarm	50.0
Measurement Gas	Isobutylene
Calibration Time	1/1/2000 00:03
Peak	N/A
Min	N/A
Average	N/A

Sheet

Index	Date/Time	PID(ppm) (Avg)
001	1/1/2000 00:36:42	0.0
002	1/1/2000 00:37:42	0.0
003	1/1/2000 00:38:42	0.0
004	1/1/2000 00:39:42	0.0
005	1/1/2000 00:40:42	0.0
006	1/1/2000 00:41:42	0.0
007	1/1/2000 00:42:42	0.0
008	1/1/2000 00:43:42	0.0
009	1/1/2000 00:44:42	0.0
010	1/1/2000 00:45:42	0.0
011	1/1/2000 00:46:42	0.0
012	1/1/2000 00:47:42	0.0
013	1/1/2000 00:48:42	0.0
014	1/1/2000 00:49:42	0.0
015	1/1/2000 00:50:42	0.0
016	1/1/2000 00:51:42	0.0
017	1/1/2000 00:52:42	0.0
018	1/1/2000 00:53:42	0.0
019	1/1/2000 00:54:42	0.0
020	1/1/2000 00:55:42	0.0
021	1/1/2000 00:56:42	0.0
022	1/1/2000 00:57:42	0.0
023	1/1/2000 00:58:42	0.1
024	1/1/2000 00:59:42	0.1
025	1/1/2000 01:00:42	0.0
026	1/1/2000 01:01:42	0.0
027	1/1/2000 01:02:42	0.0
028	1/1/2000 01:03:42	0.0
029	1/1/2000 01:04:42	0.0
030	1/1/2000 01:05:42	0.0
031	1/1/2000 01:06:42	0.0
032	1/1/2000 01:07:42	0.0
033	1/1/2000 01:08:42	0.1
034	1/1/2000 01:09:42	0.0
035	1/1/2000 01:10:42	0.0
036	1/1/2000 01:11:42	0.0
037	1/1/2000 01:12:42	0.0
038	1/1/2000 01:13:42	0.0
039	1/1/2000 01:14:42	0.0
040	1/1/2000 01:15:42	0.0
041	1/1/2000 01:16:42	0.0
042	1/1/2000 01:17:42	0.0
043	1/1/2000 01:18:42	0.0
044	1/1/2000 01:19:42	0.1
045	1/1/2000 01:20:42	0.1
046	1/1/2000 01:21:42	0.0
047	1/1/2000 01:22:42	0.0
048	1/1/2000 01:23:42	0.0
049	1/1/2000 01:24:42	0.0
050	1/1/2000 01:25:42	0.1
051	1/1/2000 01:26:42	0.1
052	1/1/2000 01:27:42	0.1
053	1/1/2000 01:28:42	0.0
054	1/1/2000 01:29:42	0.0
055	1/1/2000 01:30:42	0.0
056	1/1/2000 01:31:42	0.0
057	1/1/2000 01:32:42	0.0
058	1/1/2000 01:33:42	0.1
059	1/1/2000 01:34:42	0.1
060	1/1/2000 01:35:42	0.1
061	1/1/2000 01:36:42	0.1

062	1/1/2000 01:37:42	0.1
063	1/1/2000 01:38:42	0.0
064	1/1/2000 01:39:42	0.1
065	1/1/2000 01:40:42	0.0
066	1/1/2000 01:41:42	0.1
067	1/1/2000 01:42:42	0.1
068	1/1/2000 01:43:42	0.1
069	1/1/2000 01:44:42	0.1
070	1/1/2000 01:45:42	0.1
071	1/1/2000 01:46:42	0.1
072	1/1/2000 01:47:42	0.1
073	1/1/2000 01:48:42	0.1
074	1/1/2000 01:49:42	0.1
075	1/1/2000 01:50:42	0.1
076	1/1/2000 01:51:42	0.1
077	1/1/2000 01:52:42	0.1
078	1/1/2000 01:53:42	0.1
079	1/1/2000 01:54:42	0.1
080	1/1/2000 01:55:42	0.1
081	1/1/2000 01:56:42	0.1
082	1/1/2000 01:57:42	0.1
083	1/1/2000 01:58:42	0.1
084	1/1/2000 01:59:42	0.1
085	1/1/2000 02:00:42	0.1
086	1/1/2000 02:01:42	0.1
087	1/1/2000 02:02:42	0.1
088	1/1/2000 02:03:42	0.1
089	1/1/2000 02:04:42	0.1
090	1/1/2000 02:05:42	0.1
091	1/1/2000 02:06:42	0.1
092	1/1/2000 02:07:42	0.1
093	1/1/2000 02:08:42	0.1
094	1/1/2000 02:09:42	0.0
095	1/1/2000 02:10:42	0.1
096	1/1/2000 02:11:42	0.1
097	1/1/2000 02:12:42	0.0
098	1/1/2000 02:13:42	0.1
099	1/1/2000 02:14:42	0.1
100	1/1/2000 02:15:42	0.1
101	1/1/2000 02:16:42	0.1
102	1/1/2000 02:17:42	0.1
Peak		0.1
Min		0.0
Average		0.0

Graph



Notes

1. Date issue. PID was programmed with correct date during calibration but was unable to maintain saved date information in output of test results.
2. Background ranged from 0.0 to 0.1 PPM.

Sound Monitoring Data
May 14, 2024

Complete Session Report

5/14/2024

Information Panel

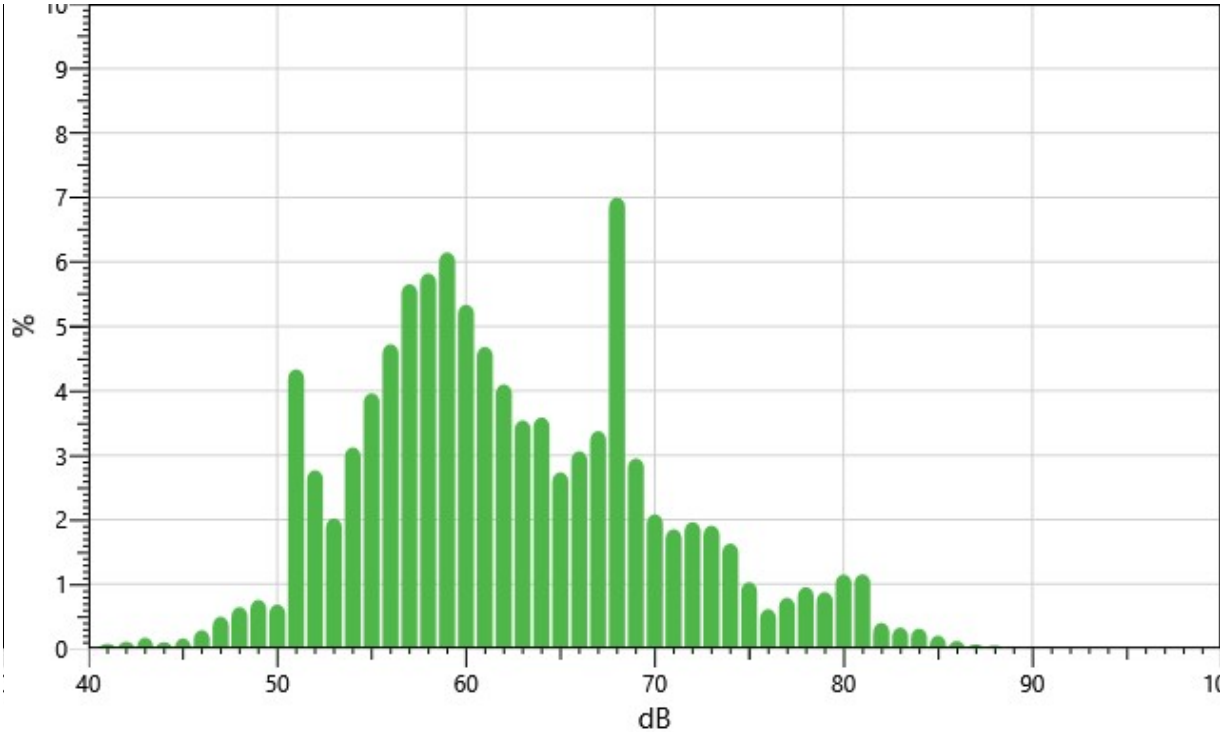
Name	S003_BIY040007_14052024_152317
Start Time	5/14/2024 7:10:54 AM
Stop Time	5/14/2024 9:00:47 AM
Device Name	BIY040007
Model Type	SoundPro DL
Device Firmware Rev	R.13J
Comments	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
LDN	1	71.4 dB	Lmin	1	40.6 dB
Lmax	1	96.9 dB			

Statistics Chart

S003_BIY040007_14052024_152317: Statistics Chart



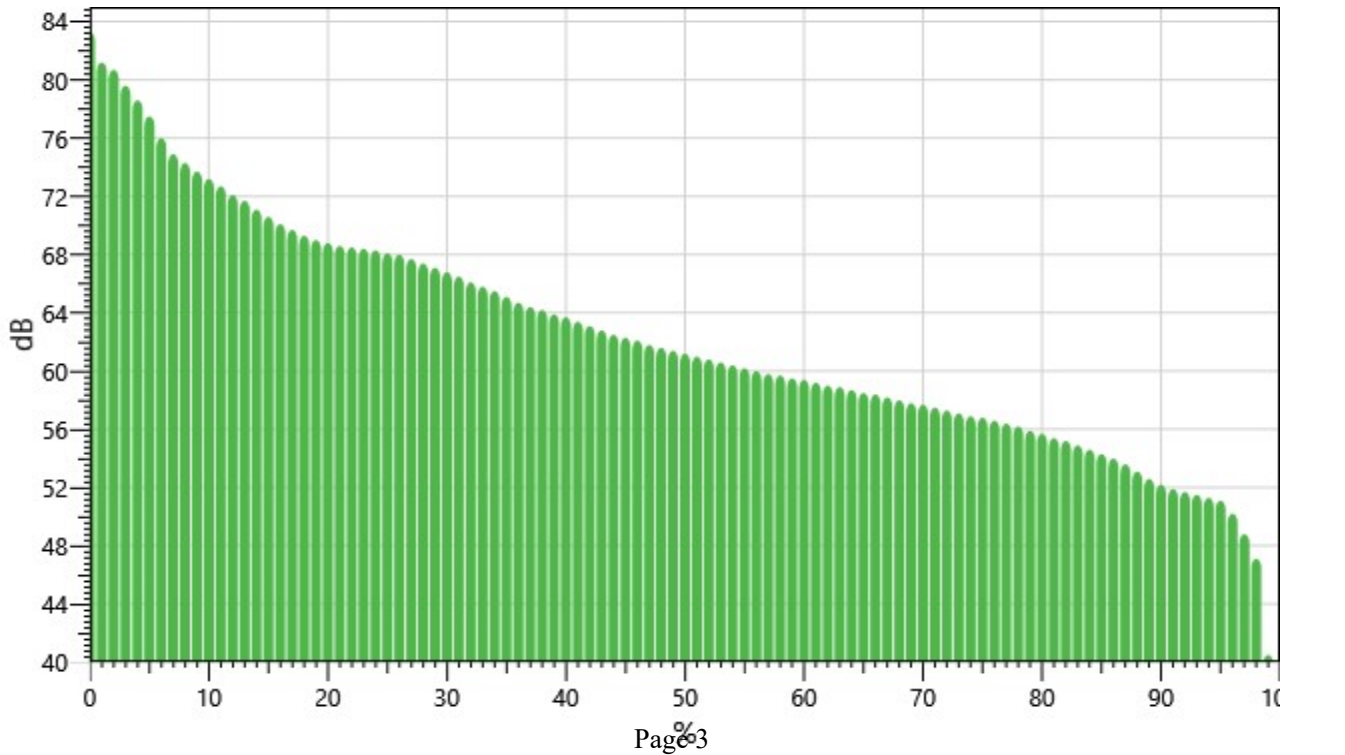
Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
40:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
41:	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.08
42:	0.01	0.01	0.00	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.11
43:	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.01	0.02	0.02	0.17
44:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10
45:	0.02	0.02	0.01	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.16
46:	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.03	0.04	0.29
47:	0.04	0.05	0.05	0.05	0.06	0.04	0.04	0.05	0.05	0.06	0.50
48:	0.06	0.06	0.05	0.04	0.05	0.07	0.07	0.07	0.09	0.09	0.65
49:	0.09	0.08	0.08	0.08	0.08	0.07	0.08	0.07	0.07	0.06	0.76
50:	0.06	0.06	0.07	0.08	0.06	0.07	0.06	0.06	0.08	0.10	0.69
51:	0.16	0.34	0.44	0.24	0.59	0.63	0.55	0.47	0.46	0.44	4.33
52:	0.41	0.36	0.33	0.30	0.27	0.26	0.23	0.22	0.20	0.19	2.77
53:	0.19	0.15	0.16	0.17	0.17	0.22	0.22	0.23	0.25	0.26	2.02
54:	0.30	0.35	0.34	0.12	0.31	0.31	0.33	0.34	0.35	0.36	3.12
55:	0.38	0.41	0.43	0.43	0.41	0.39	0.39	0.38	0.35	0.39	3.96
56:	0.41	0.39	0.42	0.43	0.45	0.49	0.49	0.52	0.54	0.58	4.72
57:	0.60	0.63	0.67	0.20	0.62	0.62	0.64	0.60	0.54	0.55	5.66
58:	0.56	0.55	0.55	0.54	0.57	0.59	0.58	0.61	0.63	0.65	5.82
59:	0.65	0.61	0.60	0.62	0.61	0.62	0.61	0.59	0.60	0.65	6.15
60:	0.64	0.65	0.64	0.21	0.58	0.56	0.56	0.52	0.49	0.49	5.34
61:	0.50	0.47	0.47	0.47	0.47	0.45	0.47	0.46	0.47	0.46	4.68
62:	0.45	0.43	0.42	0.43	0.43	0.40	0.40	0.39	0.38	0.37	4.10
63:	0.38	0.40	0.42	0.13	0.34	0.32	0.36	0.38	0.41	0.40	3.54
64:	0.43	0.42	0.43	0.38	0.37	0.35	0.32	0.31	0.29	0.27	3.59
65:	0.29	0.29	0.25	0.25	0.26	0.25	0.26	0.28	0.31	0.32	2.74
66:	0.33	0.33	0.34	0.13	0.30	0.31	0.31	0.33	0.35	0.34	3.06
67:	0.35	0.31	0.33	0.33	0.32	0.31	0.31	0.31	0.36	0.43	3.38
68:	0.51	0.54	0.60	0.65	0.71	0.79	0.94	0.95	0.78	0.53	7.00
69:	0.41	0.35	0.35	0.17	0.28	0.31	0.29	0.28	0.26	0.26	2.95
70:	0.23	0.22	0.23	0.23	0.22	0.20	0.20	0.19	0.19	0.18	2.08
71:	0.19	0.17	0.17	0.16	0.18	0.18	0.18	0.20	0.21	0.21	1.85
72:	0.22	0.22	0.24	0.14	0.16	0.22	0.22	0.20	0.18	0.17	1.96
73:	0.17	0.19	0.18	0.18	0.19	0.20	0.20	0.19	0.21	0.21	1.91
74:	0.20	0.19	0.18	0.16	0.17	0.16	0.15	0.14	0.14	0.14	1.63
75:	0.14	0.14	0.14	0.10	0.08	0.10	0.10	0.09	0.07	0.07	1.03
76:	0.06	0.06	0.06	0.07	0.07	0.07	0.06	0.06	0.06	0.05	0.61

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
77:	0.07	0.07	0.09	0.08	0.07	0.08	0.09	0.09	0.08	0.08	0.79
78:	0.09	0.08	0.09	0.08	0.06	0.10	0.11	0.12	0.11	0.11	0.96
79:	0.13	0.14	0.11	0.10	0.09	0.08	0.07	0.06	0.06	0.05	0.88
80:	0.06	0.08	0.08	0.08	0.10	0.12	0.13	0.15	0.18	0.18	1.15
81:	0.21	0.23	0.20	0.15	0.05	0.09	0.07	0.05	0.05	0.05	1.16
82:	0.05	0.04	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.40
83:	0.03	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.33
84:	0.03	0.03	0.03	0.04	0.01	0.03	0.03	0.04	0.04	0.03	0.31
85:	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.20
86:	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.12
87:	0.01	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.06
88:	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.05
89:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
90:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
91:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
92:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
93:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Exceedance Chart

S003_BIY040007_14052024_152317: Exceedance Chart

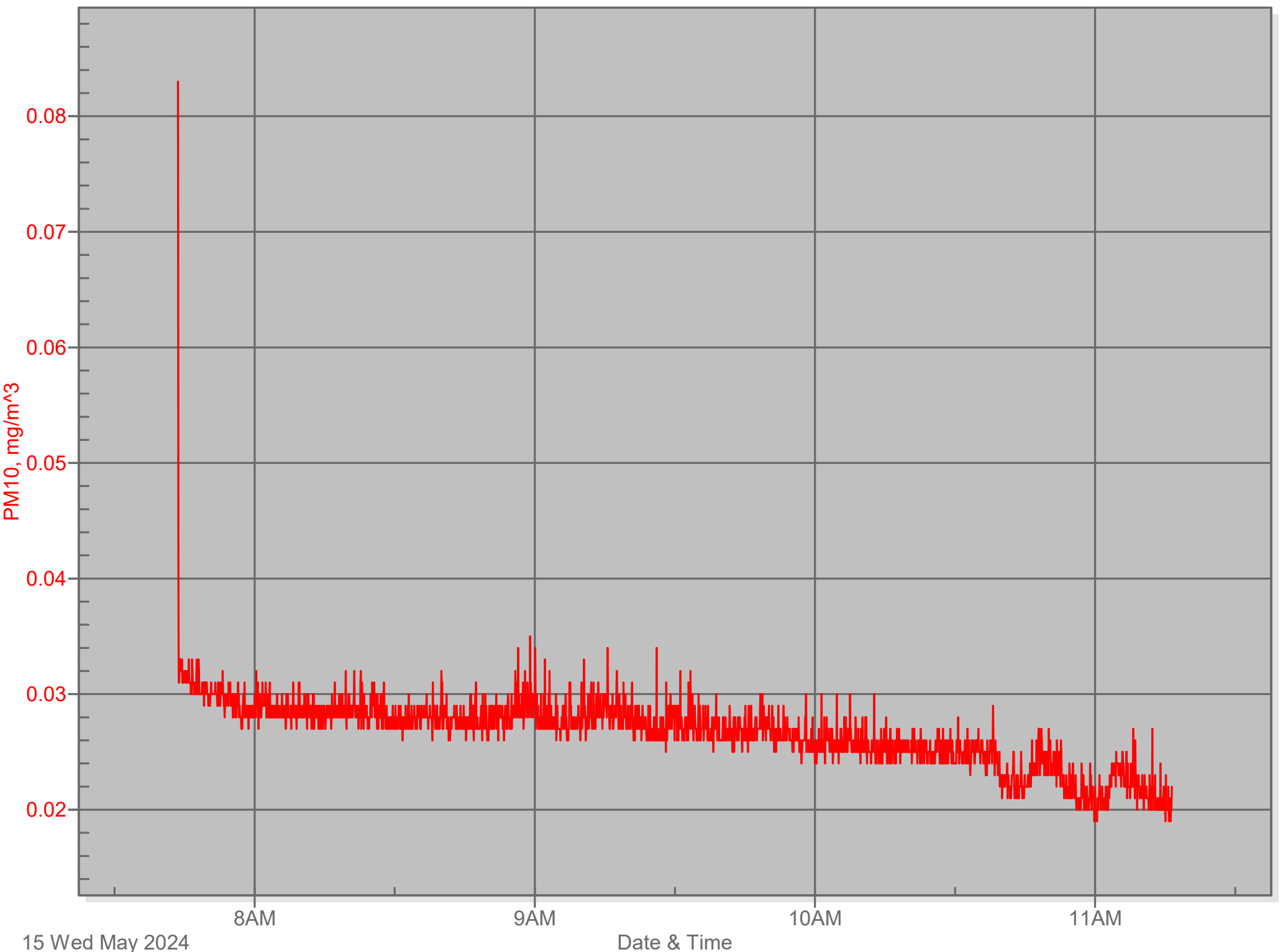


Exceedance Table

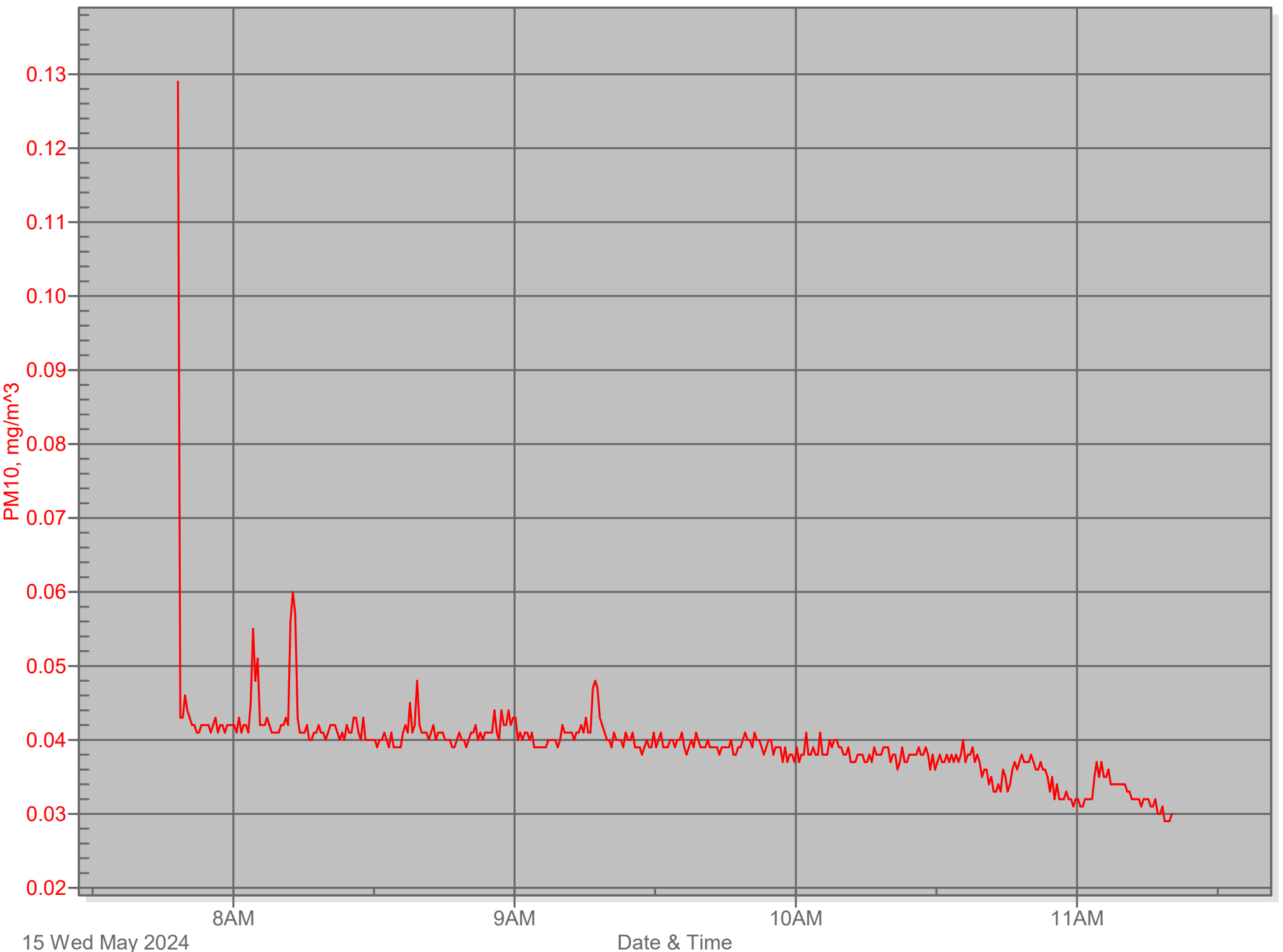
.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		83.3	81.2	80.7	79.6	78.6	77.5	76.0	74.9	74.3
10%:	73.7	73.2	72.7	72.1	71.7	71.1	70.6	70.1	69.7	69.3
20%:	69.0	68.8	68.6	68.5	68.4	68.3	68.1	68.0	67.7	67.4
30%:	67.1	66.8	66.5	66.1	65.8	65.5	65.1	64.7	64.4	64.2
40%:	63.9	63.7	63.4	63.1	62.8	62.5	62.3	62.1	61.8	61.6
50%:	61.4	61.2	61.0	60.8	60.6	60.4	60.2	60.0	59.8	59.7
60%:	59.5	59.4	59.2	59.0	58.9	58.7	58.5	58.4	58.2	58.0
70%:	57.8	57.7	57.5	57.3	57.1	56.9	56.8	56.6	56.4	56.2
80%:	55.9	55.7	55.4	55.2	54.9	54.6	54.3	54.0	53.6	53.1
90%:	52.6	52.2	51.9	51.7	51.5	51.3	51.1	50.2	48.8	47.1
100%:	40.5									

Particulate Monitoring Data
May 15, 2024

05152024 Northern Area Up Wind



05152024 Downwind Data Northern Area

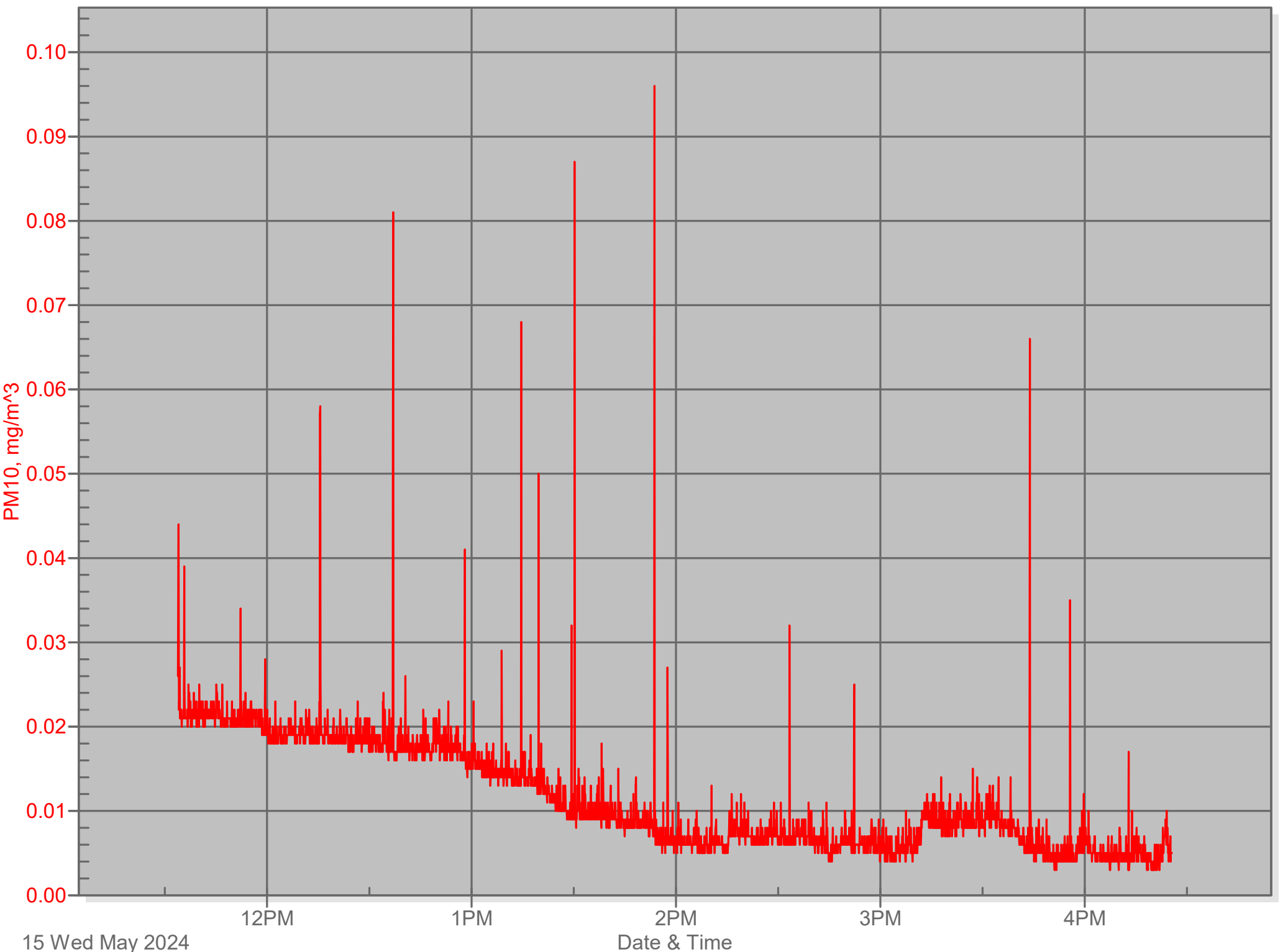


05152024 Downwind Data Northern Area

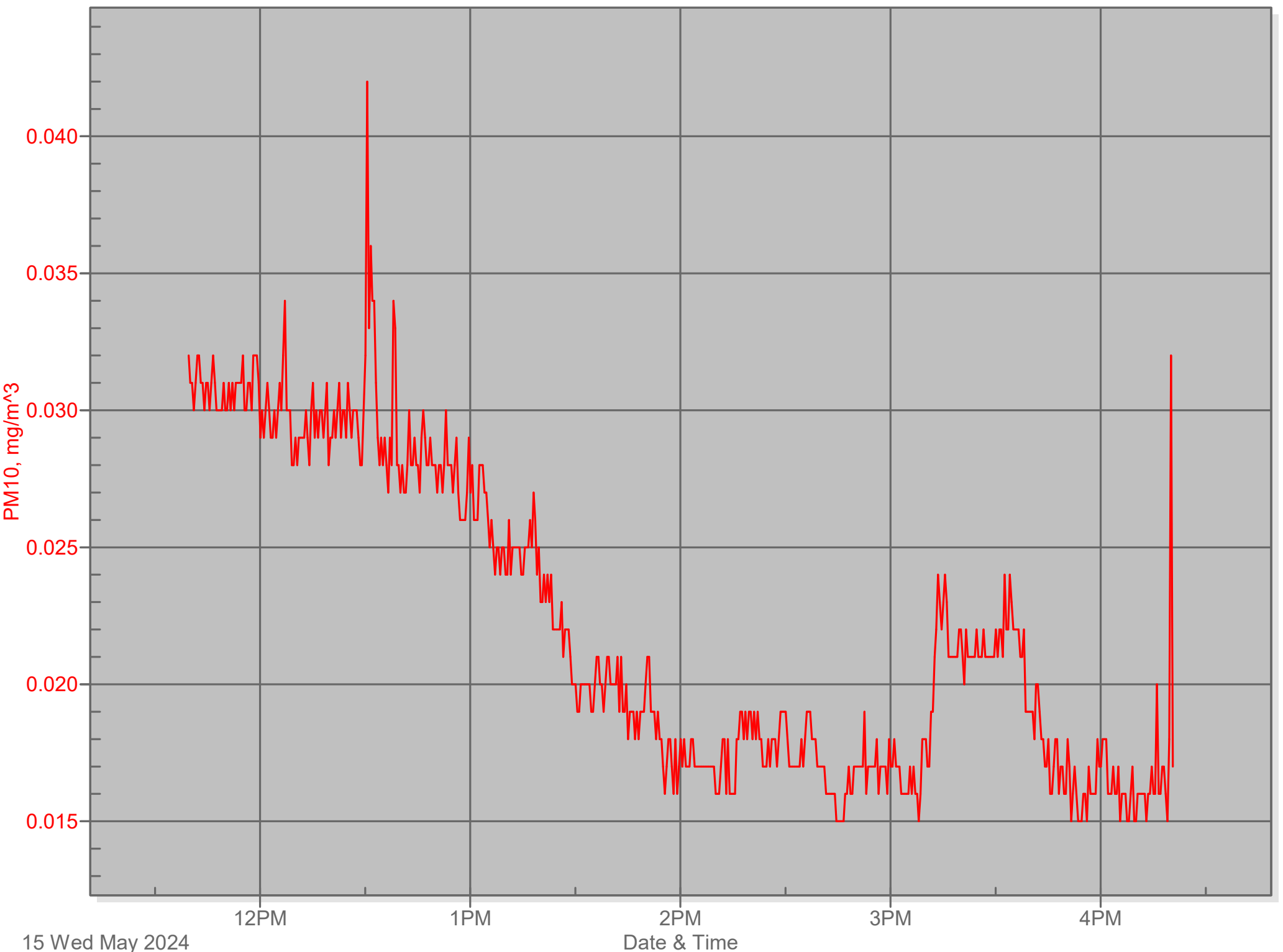
Notes

- 1. Initial Spike occurred due to disturbance during setup of instrument prior to commencement of site activities.**

05152024 Southern Area Upwind Data



05152024 Downwind Data Southern Area



PID Monitoring Data
May 15, 2024

AM Northern Area Datalog

Current Event:00/01/02 00:07

Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-000821
Unit Firmware Ver	V2.16

Running Mode	Search Mode
Datalog Mode	Auto
Diagnostic Mode	No
Stop Reason	Stop by User

Site ID	RAE00235
User ID	00000001

Begin	1/2/2000 00:07:47
End	1/2/2000 03:33:48
Sample Period(s)	60
Number of Records	206

Sensor	PID(ppm)
Sensor SN	S0092J1W0061
Measure Type	Avg
Span	100.0
Span 2	1000.0
Low Alarm	50.0
High Alarm	100.0
Over Alarm	15000.0
STEL Alarm	100.0
TWA Alarm	50.0
Measurement Gas	Isobutylene
Calibration Time	1/1/2000 07:36
Peak	N/A
Min	N/A
Average	N/A

Sheet

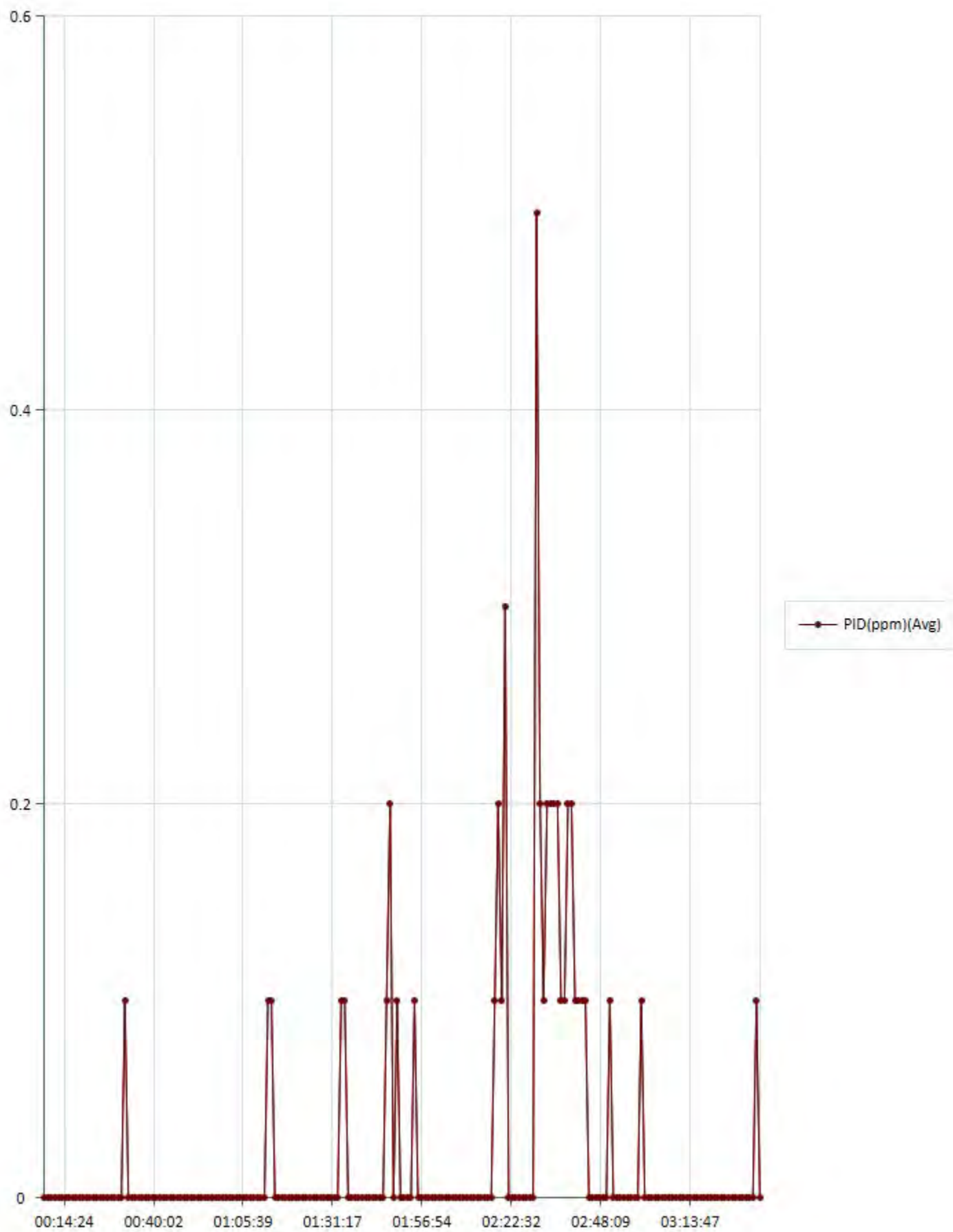
Index	Date/Time	PID(ppm) (Avg)
001	1/2/2000 00:08:47	0.0
002	1/2/2000 00:09:47	0.0
003	1/2/2000 00:10:47	0.0
004	1/2/2000 00:11:47	0.0
005	1/2/2000 00:12:47	0.0
006	1/2/2000 00:13:47	0.0
007	1/2/2000 00:14:47	0.0
008	1/2/2000 00:15:47	0.0
009	1/2/2000 00:16:47	0.0
010	1/2/2000 00:17:47	0.0
011	1/2/2000 00:18:47	0.0
012	1/2/2000 00:19:47	0.0
013	1/2/2000 00:20:47	0.0
014	1/2/2000 00:21:47	0.0
015	1/2/2000 00:22:47	0.0
016	1/2/2000 00:23:47	0.0
017	1/2/2000 00:24:47	0.0
018	1/2/2000 00:25:47	0.0
019	1/2/2000 00:26:47	0.0
020	1/2/2000 00:27:47	0.0
021	1/2/2000 00:28:47	0.0
022	1/2/2000 00:29:47	0.0
023	1/2/2000 00:30:47	0.0
024	1/2/2000 00:31:47	0.1
025	1/2/2000 00:32:47	0.0
026	1/2/2000 00:33:47	0.0
027	1/2/2000 00:34:47	0.0
028	1/2/2000 00:35:47	0.0
029	1/2/2000 00:36:47	0.0
030	1/2/2000 00:37:47	0.0
031	1/2/2000 00:38:47	0.0
032	1/2/2000 00:39:47	0.0
033	1/2/2000 00:40:47	0.0
034	1/2/2000 00:41:47	0.0
035	1/2/2000 00:42:47	0.0
036	1/2/2000 00:43:47	0.0
037	1/2/2000 00:44:47	0.0
038	1/2/2000 00:45:47	0.0
039	1/2/2000 00:46:47	0.0
040	1/2/2000 00:47:47	0.0
041	1/2/2000 00:48:47	0.0
042	1/2/2000 00:49:47	0.0
043	1/2/2000 00:50:47	0.0
044	1/2/2000 00:51:47	0.0
045	1/2/2000 00:52:47	0.0
046	1/2/2000 00:53:47	0.0
047	1/2/2000 00:54:47	0.0
048	1/2/2000 00:55:47	0.0
049	1/2/2000 00:56:47	0.0
050	1/2/2000 00:57:47	0.0
051	1/2/2000 00:58:47	0.0
052	1/2/2000 00:59:47	0.0
053	1/2/2000 01:00:47	0.0
054	1/2/2000 01:01:47	0.0
055	1/2/2000 01:02:47	0.0
056	1/2/2000 01:03:47	0.0
057	1/2/2000 01:04:47	0.0
058	1/2/2000 01:05:47	0.0
059	1/2/2000 01:06:47	0.0
060	1/2/2000 01:07:47	0.0
061	1/2/2000 01:08:47	0.0

062	1/2/2000 01:09:47	0.0
063	1/2/2000 01:10:47	0.0
064	1/2/2000 01:11:47	0.0
065	1/2/2000 01:12:47	0.1
066	1/2/2000 01:13:47	0.1
067	1/2/2000 01:14:47	0.0
068	1/2/2000 01:15:47	0.0
069	1/2/2000 01:16:47	0.0
070	1/2/2000 01:17:47	0.0
071	1/2/2000 01:18:47	0.0
072	1/2/2000 01:19:47	0.0
073	1/2/2000 01:20:47	0.0
074	1/2/2000 01:21:47	0.0
075	1/2/2000 01:22:47	0.0
076	1/2/2000 01:23:47	0.0
077	1/2/2000 01:24:47	0.0
078	1/2/2000 01:25:47	0.0
079	1/2/2000 01:26:47	0.0
080	1/2/2000 01:27:47	0.0
081	1/2/2000 01:28:47	0.0
082	1/2/2000 01:29:47	0.0
083	1/2/2000 01:30:47	0.0
084	1/2/2000 01:31:47	0.0
085	1/2/2000 01:32:47	0.0
086	1/2/2000 01:33:47	0.1
087	1/2/2000 01:34:47	0.1
088	1/2/2000 01:35:47	0.0
089	1/2/2000 01:36:47	0.0
090	1/2/2000 01:37:47	0.0
091	1/2/2000 01:38:47	0.0
092	1/2/2000 01:39:47	0.0
093	1/2/2000 01:40:47	0.0
094	1/2/2000 01:41:47	0.0
095	1/2/2000 01:42:47	0.0
096	1/2/2000 01:43:47	0.0
097	1/2/2000 01:44:47	0.0
098	1/2/2000 01:45:47	0.0
099	1/2/2000 01:46:47	0.1
100	1/2/2000 01:47:47	0.2
101	1/2/2000 01:48:47	0.0
102	1/2/2000 01:49:47	0.1
103	1/2/2000 01:50:47	0.0
104	1/2/2000 01:51:47	0.0
105	1/2/2000 01:52:47	0.0
106	1/2/2000 01:53:47	0.0
107	1/2/2000 01:54:47	0.1
108	1/2/2000 01:55:47	0.0
109	1/2/2000 01:56:47	0.0
110	1/2/2000 01:57:47	0.0
111	1/2/2000 01:58:47	0.0
112	1/2/2000 01:59:47	0.0
113	1/2/2000 02:00:47	0.0
114	1/2/2000 02:01:47	0.0
115	1/2/2000 02:02:47	0.0
116	1/2/2000 02:03:47	0.0
117	1/2/2000 02:04:47	0.0
118	1/2/2000 02:05:47	0.0
119	1/2/2000 02:06:47	0.0
120	1/2/2000 02:07:47	0.0
121	1/2/2000 02:08:47	0.0
122	1/2/2000 02:09:47	0.0
123	1/2/2000 02:10:47	0.0
124	1/2/2000 02:11:47	0.0
125	1/2/2000 02:12:47	0.0
126	1/2/2000 02:13:47	0.0

127	1/2/2000 02:14:47	0.0
128	1/2/2000 02:15:47	0.0
129	1/2/2000 02:16:47	0.0
130	1/2/2000 02:17:47	0.1
131	1/2/2000 02:18:47	0.2
132	1/2/2000 02:19:47	0.1
133	1/2/2000 02:20:47	0.3
134	1/2/2000 02:21:47	0.0
135	1/2/2000 02:22:47	0.0
136	1/2/2000 02:23:47	0.0
137	1/2/2000 02:24:47	0.0
138	1/2/2000 02:25:47	0.0
139	1/2/2000 02:26:47	0.0
140	1/2/2000 02:27:47	0.0
141	1/2/2000 02:28:47	0.0
142	1/2/2000 02:29:47	0.5
143	1/2/2000 02:30:47	0.2
144	1/2/2000 02:31:47	0.1
145	1/2/2000 02:32:47	0.2
146	1/2/2000 02:33:47	0.2
147	1/2/2000 02:34:47	0.2
148	1/2/2000 02:35:47	0.2
149	1/2/2000 02:36:47	0.1
150	1/2/2000 02:37:47	0.1
151	1/2/2000 02:38:47	0.2
152	1/2/2000 02:39:47	0.2
153	1/2/2000 02:40:47	0.1
154	1/2/2000 02:41:47	0.1
155	1/2/2000 02:42:47	0.1
156	1/2/2000 02:43:47	0.1
157	1/2/2000 02:44:47	0.0
158	1/2/2000 02:45:47	0.0
159	1/2/2000 02:46:47	0.0
160	1/2/2000 02:47:47	0.0
161	1/2/2000 02:48:47	0.0
162	1/2/2000 02:49:47	0.0
163	1/2/2000 02:50:47	0.1
164	1/2/2000 02:51:47	0.0
165	1/2/2000 02:52:47	0.0
166	1/2/2000 02:53:47	0.0
167	1/2/2000 02:54:47	0.0
168	1/2/2000 02:55:47	0.0
169	1/2/2000 02:56:47	0.0
170	1/2/2000 02:57:47	0.0
171	1/2/2000 02:58:47	0.0
172	1/2/2000 02:59:47	0.1
173	1/2/2000 03:00:47	0.0
174	1/2/2000 03:01:47	0.0
175	1/2/2000 03:02:47	0.0
176	1/2/2000 03:03:47	0.0
177	1/2/2000 03:04:47	0.0
178	1/2/2000 03:05:47	0.0
179	1/2/2000 03:06:47	0.0
180	1/2/2000 03:07:47	0.0
181	1/2/2000 03:08:47	0.0
182	1/2/2000 03:09:47	0.0
183	1/2/2000 03:10:47	0.0
184	1/2/2000 03:11:47	0.0
185	1/2/2000 03:12:47	0.0
186	1/2/2000 03:13:47	0.0
187	1/2/2000 03:14:47	0.0
188	1/2/2000 03:15:47	0.0
189	1/2/2000 03:16:47	0.0
190	1/2/2000 03:17:47	0.0
191	1/2/2000 03:18:47	0.0

192	1/2/2000 03:19:47	0.0
193	1/2/2000 03:20:47	0.0
194	1/2/2000 03:21:47	0.0
195	1/2/2000 03:22:47	0.0
196	1/2/2000 03:23:47	0.0
197	1/2/2000 03:24:47	0.0
198	1/2/2000 03:25:47	0.0
199	1/2/2000 03:26:47	0.0
200	1/2/2000 03:27:47	0.0
201	1/2/2000 03:28:47	0.0
202	1/2/2000 03:29:47	0.0
203	1/2/2000 03:30:47	0.0
204	1/2/2000 03:31:47	0.0
205	1/2/2000 03:32:47	0.1
206	1/2/2000 03:33:47	0.0
Peak		0.5
Min		0.0
Average		0.0

Graph



Notes

1. Date Issue. PID was prograded with correct date during calibration but was unable to maintain saved date information in output of test results.
2. Elevated levels 0.5 PPM occurred when scanning stump grindings. No detections occurred while the PID was stationed at the downwind monitoring point.

PM Southern Area Datalog

Current Event:00/01/02 03:58

Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-000821
Unit Firmware Ver	V2.16

Running Mode	Search Mode
Datalog Mode	Auto
Diagnostic Mode	No
Stop Reason	Stop by User

Site ID	RAE00236
User ID	00000001

Begin	1/2/2000 03:58:39
End	1/2/2000 08:38:00
Sample Period(s)	60
Number of Records	279

Sensor	PID(ppm)
Sensor SN	S0092J1W0061
Measure Type	Avg
Span	100.0
Span 2	1000.0
Low Alarm	50.0
High Alarm	100.0
Over Alarm	15000.0
STEL Alarm	100.0
TWA Alarm	50.0
Measurement Gas	Isobutylene
Calibration Time	1/1/2000 07:36
Peak	N/A
Min	N/A
Average	N/A

Sheet

Index	Date/Time	PID(ppm) (Avg)
001	1/2/2000 03:59:39	0.0
002	1/2/2000 04:00:39	0.0
003	1/2/2000 04:01:39	0.0
004	1/2/2000 04:02:39	0.0
005	1/2/2000 04:03:39	0.0
006	1/2/2000 04:04:39	0.0
007	1/2/2000 04:05:39	0.0
008	1/2/2000 04:06:39	0.0
009	1/2/2000 04:07:39	0.0
010	1/2/2000 04:08:39	0.0
011	1/2/2000 04:09:39	0.0
012	1/2/2000 04:10:39	0.0
013	1/2/2000 04:11:39	0.0
014	1/2/2000 04:12:39	0.0
015	1/2/2000 04:13:39	0.0
016	1/2/2000 04:14:39	0.0
017	1/2/2000 04:15:39	0.0
018	1/2/2000 04:16:39	0.0
019	1/2/2000 04:17:39	0.0
020	1/2/2000 04:18:39	0.0
021	1/2/2000 04:19:39	0.0
022	1/2/2000 04:20:39	0.0
023	1/2/2000 04:21:39	0.0
024	1/2/2000 04:22:39	0.0
025	1/2/2000 04:23:39	0.0
026	1/2/2000 04:24:39	0.0
027	1/2/2000 04:25:39	0.0
028	1/2/2000 04:26:39	0.0
029	1/2/2000 04:27:39	0.0
030	1/2/2000 04:28:39	0.0
031	1/2/2000 04:29:39	0.0
032	1/2/2000 04:30:39	0.0
033	1/2/2000 04:31:39	0.0
034	1/2/2000 04:32:39	0.0
035	1/2/2000 04:33:39	0.0
036	1/2/2000 04:34:39	0.0
037	1/2/2000 04:35:39	0.0
038	1/2/2000 04:36:39	0.0
039	1/2/2000 04:37:39	0.0
040	1/2/2000 04:38:39	0.0
041	1/2/2000 04:39:39	0.0
042	1/2/2000 04:40:39	0.0
043	1/2/2000 04:41:39	0.0
044	1/2/2000 04:42:39	0.0
045	1/2/2000 04:43:39	0.0
046	1/2/2000 04:44:39	0.0
047	1/2/2000 04:45:39	0.0
048	1/2/2000 04:46:39	0.0
049	1/2/2000 04:47:39	0.0
050	1/2/2000 04:48:39	0.0
051	1/2/2000 04:49:39	0.0
052	1/2/2000 04:50:39	0.0
053	1/2/2000 04:51:39	0.1
054	1/2/2000 04:52:39	0.0
055	1/2/2000 04:53:39	0.0
056	1/2/2000 04:54:39	0.0
057	1/2/2000 04:55:39	0.0
058	1/2/2000 04:56:39	0.0
059	1/2/2000 04:57:39	0.1
060	1/2/2000 04:58:39	0.0
061	1/2/2000 04:59:39	0.0

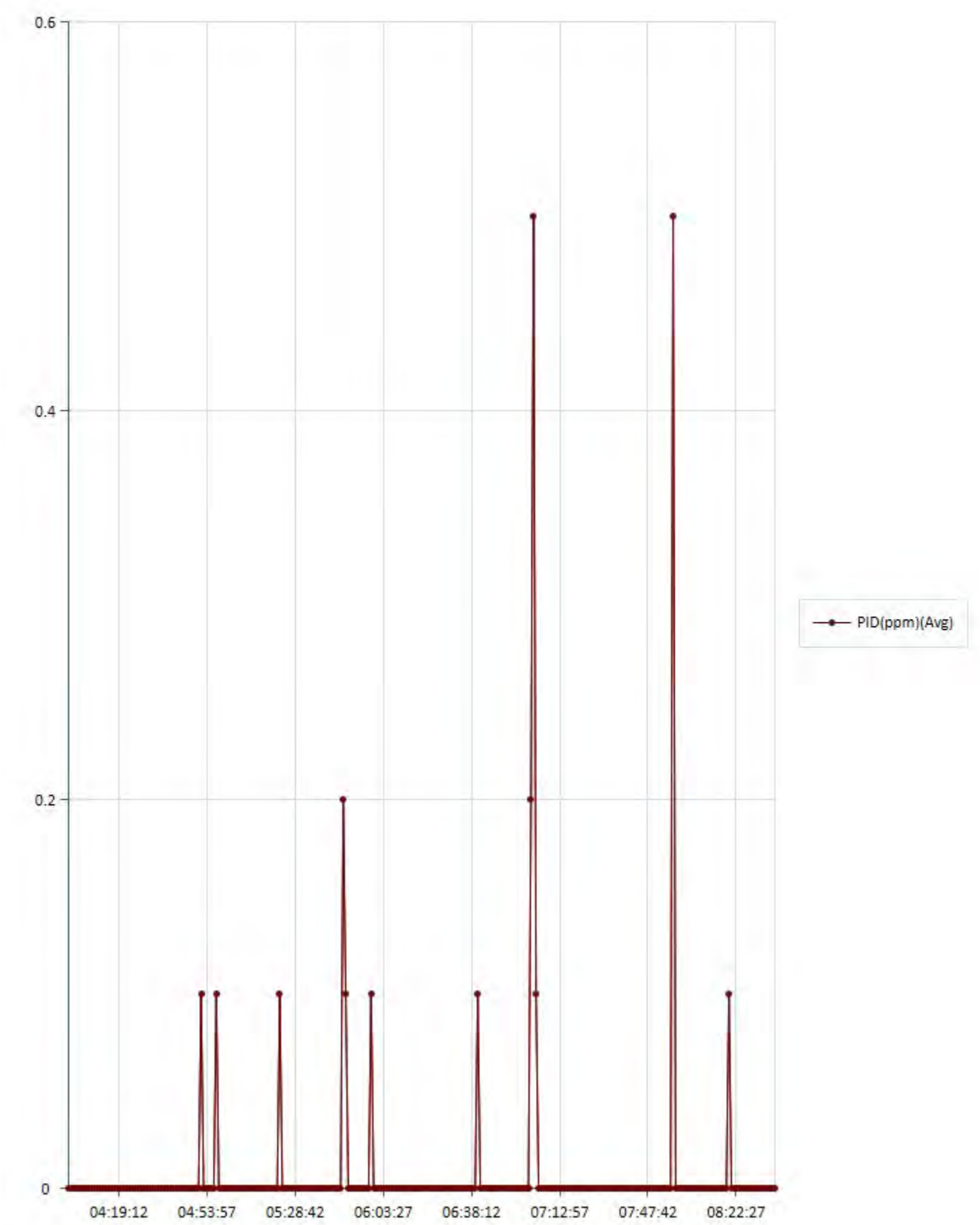
062	1/2/2000 05:00:39	0.0
063	1/2/2000 05:01:39	0.0
064	1/2/2000 05:02:39	0.0
065	1/2/2000 05:03:39	0.0
066	1/2/2000 05:04:39	0.0
067	1/2/2000 05:05:39	0.0
068	1/2/2000 05:06:39	0.0
069	1/2/2000 05:07:39	0.0
070	1/2/2000 05:08:39	0.0
071	1/2/2000 05:09:39	0.0
072	1/2/2000 05:10:39	0.0
073	1/2/2000 05:11:39	0.0
074	1/2/2000 05:12:39	0.0
075	1/2/2000 05:13:39	0.0
076	1/2/2000 05:14:39	0.0
077	1/2/2000 05:15:39	0.0
078	1/2/2000 05:16:39	0.0
079	1/2/2000 05:17:39	0.0
080	1/2/2000 05:18:39	0.0
081	1/2/2000 05:19:39	0.0
082	1/2/2000 05:20:39	0.0
083	1/2/2000 05:21:39	0.0
084	1/2/2000 05:22:39	0.1
085	1/2/2000 05:23:39	0.0
086	1/2/2000 05:24:39	0.0
087	1/2/2000 05:25:39	0.0
088	1/2/2000 05:26:39	0.0
089	1/2/2000 05:27:39	0.0
090	1/2/2000 05:28:39	0.0
091	1/2/2000 05:29:39	0.0
092	1/2/2000 05:30:39	0.0
093	1/2/2000 05:31:39	0.0
094	1/2/2000 05:32:39	0.0
095	1/2/2000 05:33:39	0.0
096	1/2/2000 05:34:39	0.0
097	1/2/2000 05:35:39	0.0
098	1/2/2000 05:36:39	0.0
099	1/2/2000 05:37:39	0.0
100	1/2/2000 05:38:39	0.0
101	1/2/2000 05:39:39	0.0
102	1/2/2000 05:40:39	0.0
103	1/2/2000 05:41:39	0.0
104	1/2/2000 05:42:39	0.0
105	1/2/2000 05:43:39	0.0
106	1/2/2000 05:44:39	0.0
107	1/2/2000 05:45:39	0.0
108	1/2/2000 05:46:39	0.0
109	1/2/2000 05:47:39	0.2
110	1/2/2000 05:48:39	0.1
111	1/2/2000 05:49:39	0.0
112	1/2/2000 05:50:39	0.0
113	1/2/2000 05:51:39	0.0
114	1/2/2000 05:52:39	0.0
115	1/2/2000 05:53:39	0.0
116	1/2/2000 05:54:39	0.0
117	1/2/2000 05:55:39	0.0
118	1/2/2000 05:56:39	0.0
119	1/2/2000 05:57:39	0.0
120	1/2/2000 05:58:39	0.1
121	1/2/2000 05:59:39	0.0
122	1/2/2000 06:00:39	0.0
123	1/2/2000 06:01:39	0.0
124	1/2/2000 06:02:39	0.0
125	1/2/2000 06:03:39	0.0
126	1/2/2000 06:04:39	0.0

127	1/2/2000 06:05:39	0.0
128	1/2/2000 06:06:39	0.0
129	1/2/2000 06:07:39	0.0
130	1/2/2000 06:08:39	0.0
131	1/2/2000 06:09:39	0.0
132	1/2/2000 06:10:39	0.0
133	1/2/2000 06:11:39	0.0
134	1/2/2000 06:12:39	0.0
135	1/2/2000 06:13:39	0.0
136	1/2/2000 06:14:39	0.0
137	1/2/2000 06:15:39	0.0
138	1/2/2000 06:16:39	0.0
139	1/2/2000 06:17:39	0.0
140	1/2/2000 06:18:39	0.0
141	1/2/2000 06:19:39	0.0
142	1/2/2000 06:20:39	0.0
143	1/2/2000 06:21:39	0.0
144	1/2/2000 06:22:39	0.0
145	1/2/2000 06:23:39	0.0
146	1/2/2000 06:24:39	0.0
147	1/2/2000 06:25:39	0.0
148	1/2/2000 06:26:39	0.0
149	1/2/2000 06:27:39	0.0
150	1/2/2000 06:28:39	0.0
151	1/2/2000 06:29:39	0.0
152	1/2/2000 06:30:39	0.0
153	1/2/2000 06:31:39	0.0
154	1/2/2000 06:32:39	0.0
155	1/2/2000 06:33:39	0.0
156	1/2/2000 06:34:39	0.0
157	1/2/2000 06:35:39	0.0
158	1/2/2000 06:36:39	0.0
159	1/2/2000 06:37:39	0.0
160	1/2/2000 06:38:39	0.0
161	1/2/2000 06:39:39	0.0
162	1/2/2000 06:40:39	0.1
163	1/2/2000 06:41:39	0.0
164	1/2/2000 06:42:39	0.0
165	1/2/2000 06:43:39	0.0
166	1/2/2000 06:44:39	0.0
167	1/2/2000 06:45:39	0.0
168	1/2/2000 06:46:39	0.0
169	1/2/2000 06:47:39	0.0
170	1/2/2000 06:48:39	0.0
171	1/2/2000 06:49:39	0.0
172	1/2/2000 06:50:39	0.0
173	1/2/2000 06:51:39	0.0
174	1/2/2000 06:52:39	0.0
175	1/2/2000 06:53:39	0.0
176	1/2/2000 06:54:39	0.0
177	1/2/2000 06:55:39	0.0
178	1/2/2000 06:56:39	0.0
179	1/2/2000 06:57:39	0.0
180	1/2/2000 06:58:39	0.0
181	1/2/2000 06:59:39	0.0
182	1/2/2000 07:00:39	0.0
183	1/2/2000 07:01:39	0.2
184	1/2/2000 07:02:39	0.5
185	1/2/2000 07:03:39	0.1
186	1/2/2000 07:04:39	0.0
187	1/2/2000 07:05:39	0.0
188	1/2/2000 07:06:39	0.0
189	1/2/2000 07:07:39	0.0
190	1/2/2000 07:08:39	0.0
191	1/2/2000 07:09:39	0.0

192	1/2/2000 07:10:39	0.0
193	1/2/2000 07:11:39	0.0
194	1/2/2000 07:12:39	0.0
195	1/2/2000 07:13:39	0.0
196	1/2/2000 07:14:39	0.0
197	1/2/2000 07:15:39	0.0
198	1/2/2000 07:16:39	0.0
199	1/2/2000 07:17:39	0.0
200	1/2/2000 07:18:39	0.0
201	1/2/2000 07:19:39	0.0
202	1/2/2000 07:20:39	0.0
203	1/2/2000 07:21:39	0.0
204	1/2/2000 07:22:39	0.0
205	1/2/2000 07:23:39	0.0
206	1/2/2000 07:24:39	0.0
207	1/2/2000 07:25:39	0.0
208	1/2/2000 07:26:39	0.0
209	1/2/2000 07:27:39	0.0
210	1/2/2000 07:28:39	0.0
211	1/2/2000 07:29:39	0.0
212	1/2/2000 07:30:39	0.0
213	1/2/2000 07:31:39	0.0
214	1/2/2000 07:32:39	0.0
215	1/2/2000 07:33:39	0.0
216	1/2/2000 07:34:39	0.0
217	1/2/2000 07:35:39	0.0
218	1/2/2000 07:36:39	0.0
219	1/2/2000 07:37:39	0.0
220	1/2/2000 07:38:39	0.0
221	1/2/2000 07:39:39	0.0
222	1/2/2000 07:40:39	0.0
223	1/2/2000 07:41:39	0.0
224	1/2/2000 07:42:39	0.0
225	1/2/2000 07:43:39	0.0
226	1/2/2000 07:44:39	0.0
227	1/2/2000 07:45:39	0.0
228	1/2/2000 07:46:39	0.0
229	1/2/2000 07:47:39	0.0
230	1/2/2000 07:48:39	0.0
231	1/2/2000 07:49:39	0.0
232	1/2/2000 07:50:39	0.0
233	1/2/2000 07:51:39	0.0
234	1/2/2000 07:52:39	0.0
235	1/2/2000 07:53:39	0.0
236	1/2/2000 07:54:39	0.0
237	1/2/2000 07:55:39	0.0
238	1/2/2000 07:56:39	0.0
239	1/2/2000 07:57:39	0.5
240	1/2/2000 07:58:39	0.0
241	1/2/2000 07:59:39	0.0
242	1/2/2000 08:00:39	0.0
243	1/2/2000 08:01:39	0.0
244	1/2/2000 08:02:39	0.0
245	1/2/2000 08:03:39	0.0
246	1/2/2000 08:04:39	0.0
247	1/2/2000 08:05:39	0.0
248	1/2/2000 08:06:39	0.0
249	1/2/2000 08:07:39	0.0
250	1/2/2000 08:08:39	0.0
251	1/2/2000 08:09:39	0.0
252	1/2/2000 08:10:39	0.0
253	1/2/2000 08:11:39	0.0
254	1/2/2000 08:12:39	0.0
255	1/2/2000 08:13:39	0.0
256	1/2/2000 08:14:39	0.0

257	1/2/2000 08:15:39	0.0
258	1/2/2000 08:16:39	0.0
259	1/2/2000 08:17:39	0.0
260	1/2/2000 08:18:39	0.0
261	1/2/2000 08:19:39	0.1
262	1/2/2000 08:20:39	0.0
263	1/2/2000 08:21:39	0.0
264	1/2/2000 08:22:39	0.0
265	1/2/2000 08:23:39	0.0
266	1/2/2000 08:24:39	0.0
267	1/2/2000 08:25:39	0.0
268	1/2/2000 08:26:39	0.0
269	1/2/2000 08:27:39	0.0
270	1/2/2000 08:28:39	0.0
271	1/2/2000 08:29:39	0.0
272	1/2/2000 08:30:39	0.0
273	1/2/2000 08:31:39	0.0
274	1/2/2000 08:32:39	0.0
275	1/2/2000 08:33:39	0.0
276	1/2/2000 08:34:39	0.0
277	1/2/2000 08:35:39	0.0
278	1/2/2000 08:36:39	0.0
279	1/2/2000 08:37:39	0.0
Peak		0.5
Min		0.0
Average		0.0

Graph



Notes

1. Date Issue. PID was programmed with correct date during calibration but was unable to maintain saved date information in output of test results.
2. Elevated levels 0.5 PPM occurred when scanning stump grindings. No detections occurred while the PID was stationed at the downwind monitoring point.

Sound Monitoring Data
May 15, 2024

AM Northern Area Session Report 1

5/15/2024

Information Panel

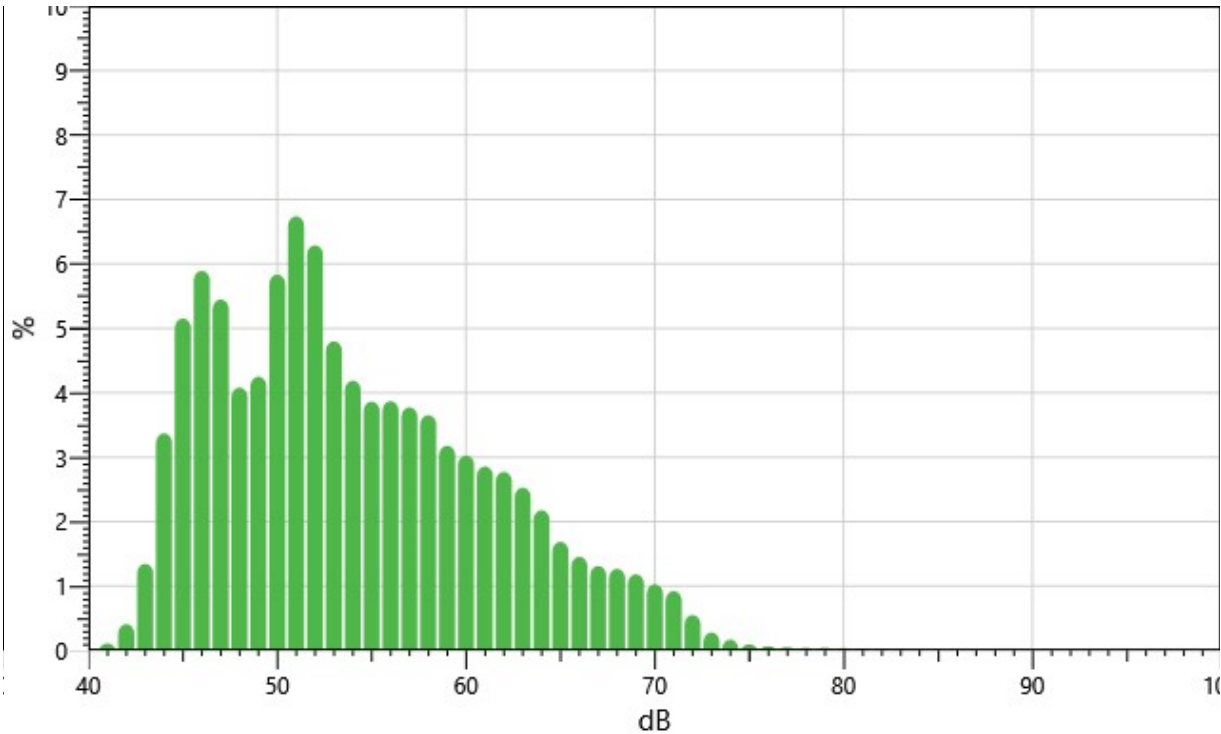
Name	S004_BIY040007_15052024_183802
Start Time	5/15/2024 6:49:44 AM
Stop Time	5/15/2024 9:06:46 AM
Device Name	BIY040007
Model Type	SoundPro DL
Device Firmware Rev	R.13J
Comments	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Lmax	1	92.6 dB	Lmin	1	40.1 dB
LDN	1	62.8 dB			

Statistics Chart

S004_BIY040007_15052024_183802: Statistics Chart



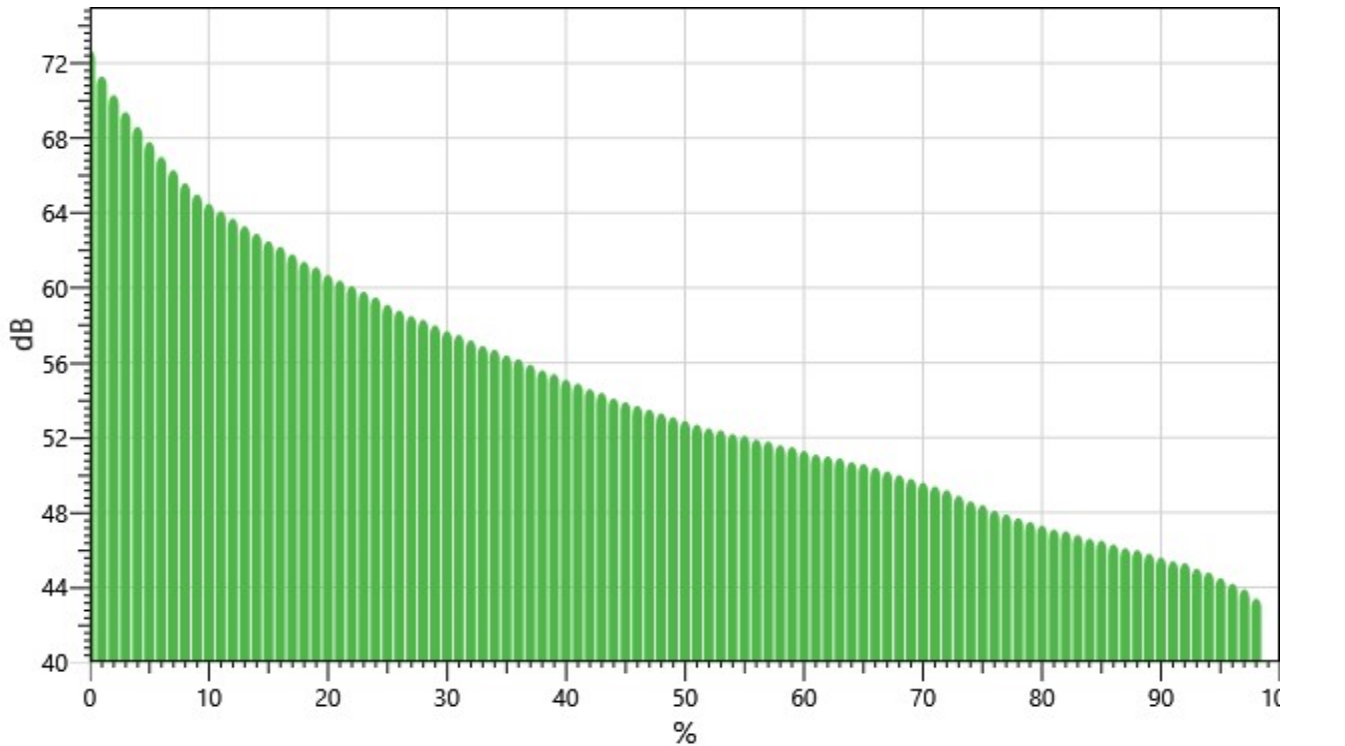
Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
40:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
41:	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.11
42:	0.03	0.03	0.02	0.02	0.04	0.04	0.05	0.06	0.06	0.06	0.41
43:	0.07	0.08	0.09	0.10	0.12	0.13	0.16	0.17	0.19	0.22	1.35
44:	0.25	0.28	0.31	0.31	0.32	0.33	0.34	0.38	0.42	0.44	3.37
45:	0.47	0.53	0.37	0.36	0.52	0.56	0.59	0.59	0.58	0.58	5.15
46:	0.56	0.59	0.62	0.61	0.61	0.60	0.59	0.58	0.58	0.56	5.89
47:	0.57	0.57	0.58	0.57	0.55	0.53	0.53	0.52	0.51	0.51	5.45
48:	0.50	0.50	0.36	0.25	0.45	0.43	0.40	0.40	0.40	0.39	4.08
49:	0.38	0.38	0.39	0.42	0.41	0.42	0.46	0.45	0.46	0.49	4.25
50:	0.52	0.52	0.50	0.52	0.55	0.59	0.62	0.65	0.68	0.70	5.84
51:	0.76	0.80	0.68	0.33	0.70	0.70	0.69	0.70	0.69	0.68	6.74
52:	0.67	0.65	0.64	0.63	0.62	0.64	0.64	0.60	0.60	0.60	6.29
53:	0.55	0.49	0.50	0.46	0.50	0.48	0.46	0.44	0.45	0.46	4.80
54:	0.50	0.48	0.48	0.16	0.43	0.44	0.43	0.43	0.41	0.41	4.19
55:	0.39	0.40	0.39	0.38	0.38	0.39	0.39	0.39	0.38	0.38	3.86
56:	0.36	0.37	0.37	0.37	0.37	0.38	0.41	0.41	0.41	0.42	3.87
57:	0.42	0.43	0.46	0.13	0.38	0.39	0.38	0.39	0.39	0.40	3.78
58:	0.39	0.38	0.38	0.38	0.37	0.37	0.36	0.35	0.35	0.33	3.65
59:	0.32	0.32	0.29	0.32	0.32	0.32	0.32	0.32	0.32	0.32	3.18
60:	0.34	0.35	0.36	0.12	0.34	0.33	0.31	0.30	0.29	0.29	3.03
61:	0.29	0.28	0.28	0.29	0.30	0.29	0.28	0.29	0.28	0.27	2.86
62:	0.26	0.26	0.26	0.26	0.27	0.29	0.29	0.29	0.30	0.29	2.77
63:	0.29	0.30	0.33	0.09	0.25	0.26	0.24	0.25	0.25	0.25	2.53
64:	0.25	0.24	0.24	0.22	0.21	0.22	0.21	0.20	0.19	0.19	2.18
65:	0.17	0.18	0.17	0.18	0.18	0.17	0.16	0.16	0.16	0.16	1.69
66:	0.17	0.18	0.17	0.07	0.17	0.15	0.15	0.13	0.14	0.13	1.46
67:	0.14	0.15	0.14	0.13	0.13	0.12	0.13	0.12	0.13	0.12	1.32
68:	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.14	0.15	0.14	1.27
69:	0.13	0.15	0.14	0.07	0.10	0.13	0.12	0.12	0.11	0.12	1.19
70:	0.11	0.11	0.11	0.10	0.10	0.11	0.10	0.09	0.10	0.10	1.03
71:	0.10	0.10	0.09	0.10	0.09	0.09	0.10	0.09	0.08	0.08	0.92
72:	0.08	0.06	0.07	0.04	0.05	0.06	0.06	0.05	0.05	0.04	0.55
73:	0.04	0.04	0.04	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.28
74:	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.01	0.17
75:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10
76:	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.07

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
77:	0.01	0.01	0.01	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.05
78:	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.05
79:	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.05
80:	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
81:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
82:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
83:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
84:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
85:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
86:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
91:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Exceedance Chart

S004_BIY040007_15052024_183802: Exceedance Chart



Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
---	----	----	----	----	----	----	----	----	----	----

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		72.7	71.3	70.3	69.4	68.6	67.8	67.0	66.3	65.6
10%:	65.0	64.5	64.1	63.7	63.3	62.9	62.5	62.2	61.8	61.4
20%:	61.1	60.7	60.4	60.1	59.8	59.5	59.1	58.8	58.5	58.3
30%:	58.0	57.7	57.5	57.2	56.9	56.7	56.4	56.2	55.9	55.6
40%:	55.4	55.1	54.9	54.6	54.4	54.1	53.9	53.7	53.5	53.3
50%:	53.1	52.9	52.7	52.5	52.4	52.2	52.1	51.9	51.8	51.6
60%:	51.5	51.3	51.1	51.0	50.9	50.7	50.6	50.4	50.2	50.0
70%:	49.8	49.6	49.4	49.2	48.9	48.6	48.4	48.1	47.9	47.7
80%:	47.5	47.3	47.1	47.0	46.8	46.6	46.5	46.3	46.1	46.0
90%:	45.8	45.6	45.4	45.3	45.0	44.8	44.5	44.2	43.9	43.4
100%:	40.0									

AM Northern Area Session Report 2

5/15/2024

Information Panel

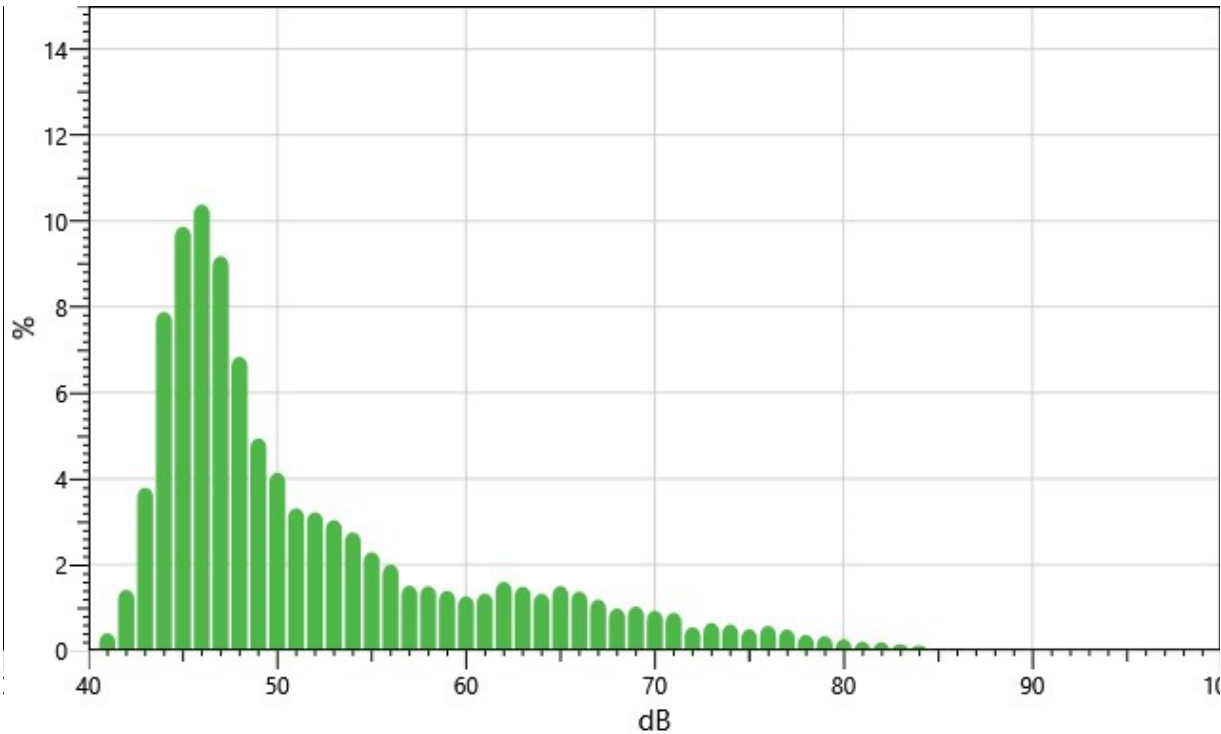
Name	S005_BIY040007_15052024_183803
Start Time	5/15/2024 9:09:22 AM
Stop Time	5/15/2024 10:16:19 AM
Device Name	BIY040007
Model Type	SoundPro DL
Device Firmware Rev	R.13J
Comments	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
LDN	1	66.7 dB	Lmax	1	92.9 dB
Lmin	1	40.4 dB			

Statistics Chart

S005_BIY040007_15052024_183803: Statistics Chart



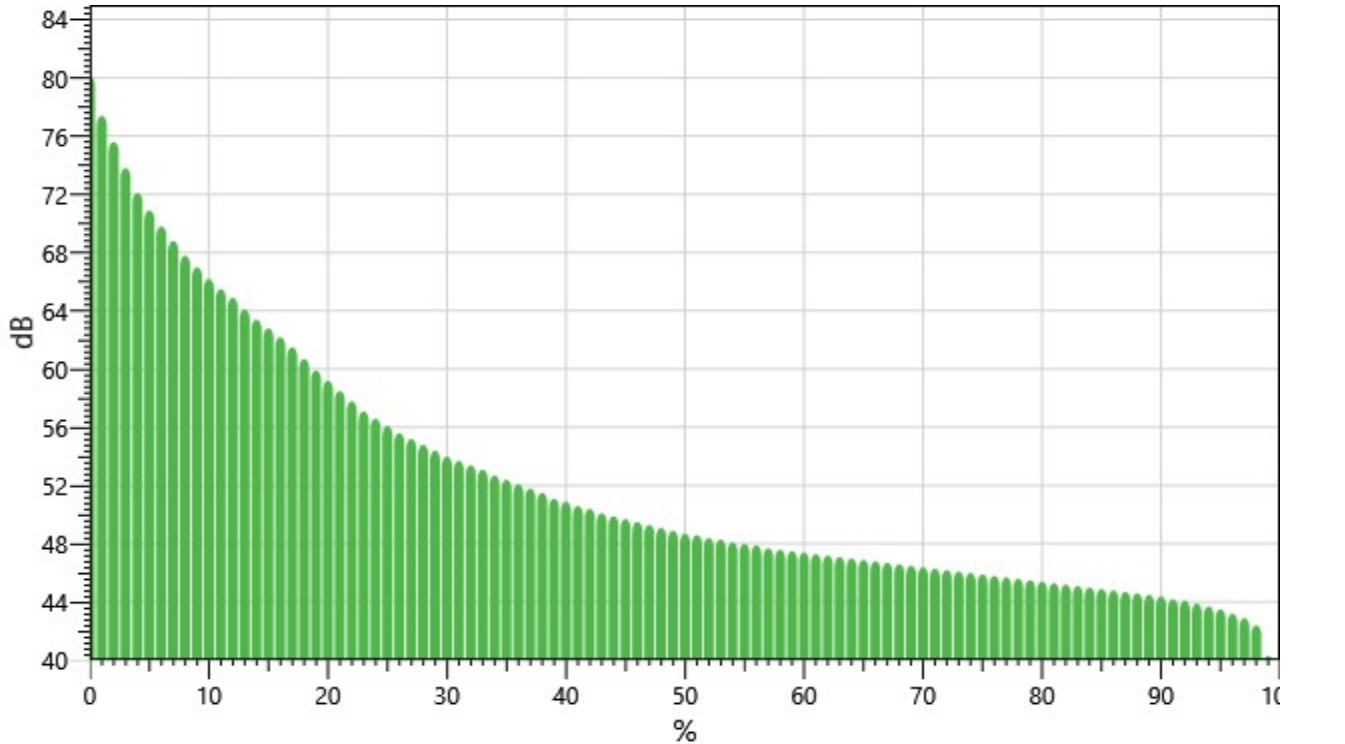
Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
40:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.05
41:	0.02	0.02	0.03	0.03	0.04	0.05	0.05	0.05	0.06	0.06	0.41
42:	0.07	0.10	0.07	0.10	0.14	0.14	0.18	0.20	0.20	0.22	1.42
43:	0.25	0.31	0.32	0.33	0.34	0.36	0.42	0.47	0.46	0.53	3.79
44:	0.59	0.64	0.65	0.68	0.74	0.80	0.84	0.93	0.98	1.03	7.88
45:	1.07	1.12	0.75	0.70	1.03	1.06	1.04	1.05	1.03	1.02	9.87
46:	1.07	1.09	1.10	1.08	1.05	1.00	1.03	1.00	0.99	0.96	10.38
47:	0.94	0.96	1.00	0.96	0.95	0.91	0.86	0.86	0.86	0.88	9.18
48:	0.88	0.86	0.63	0.44	0.75	0.74	0.69	0.65	0.60	0.58	6.84
49:	0.56	0.57	0.53	0.51	0.48	0.47	0.47	0.46	0.47	0.42	4.94
50:	0.44	0.45	0.42	0.42	0.44	0.40	0.41	0.39	0.36	0.39	4.14
51:	0.39	0.38	0.33	0.14	0.36	0.35	0.31	0.33	0.35	0.36	3.32
52:	0.35	0.36	0.35	0.33	0.31	0.31	0.29	0.33	0.31	0.29	3.22
53:	0.28	0.28	0.30	0.30	0.30	0.32	0.31	0.31	0.32	0.33	3.04
54:	0.32	0.32	0.32	0.11	0.29	0.28	0.27	0.28	0.28	0.29	2.75
55:	0.27	0.24	0.23	0.22	0.24	0.23	0.23	0.22	0.21	0.20	2.29
56:	0.20	0.21	0.20	0.21	0.22	0.20	0.21	0.19	0.19	0.18	2.00
57:	0.18	0.17	0.19	0.05	0.16	0.14	0.14	0.15	0.15	0.17	1.51
58:	0.18	0.16	0.15	0.15	0.16	0.14	0.14	0.15	0.16	0.13	1.50
59:	0.14	0.14	0.14	0.14	0.14	0.15	0.14	0.15	0.12	0.14	1.39
60:	0.15	0.16	0.15	0.06	0.14	0.12	0.12	0.13	0.13	0.11	1.27
61:	0.12	0.13	0.12	0.13	0.13	0.14	0.14	0.13	0.14	0.14	1.33
62:	0.15	0.16	0.17	0.17	0.18	0.17	0.17	0.15	0.14	0.16	1.60
63:	0.17	0.19	0.18	0.06	0.15	0.15	0.15	0.14	0.14	0.15	1.49
64:	0.13	0.15	0.15	0.13	0.12	0.12	0.12	0.13	0.13	0.14	1.33
65:	0.15	0.15	0.15	0.16	0.15	0.15	0.15	0.15	0.14	0.15	1.50
66:	0.16	0.18	0.17	0.07	0.12	0.14	0.13	0.14	0.14	0.14	1.38
67:	0.13	0.13	0.12	0.13	0.11	0.11	0.11	0.12	0.11	0.11	1.19
68:	0.10	0.09	0.09	0.10	0.10	0.10	0.10	0.11	0.11	0.09	0.98
69:	0.10	0.10	0.10	0.06	0.09	0.10	0.13	0.13	0.12	0.11	1.03
70:	0.11	0.11	0.10	0.09	0.09	0.08	0.10	0.08	0.08	0.09	0.93
71:	0.09	0.09	0.10	0.10	0.09	0.08	0.09	0.09	0.08	0.07	0.88
72:	0.07	0.08	0.06	0.04	0.04	0.06	0.05	0.05	0.05	0.05	0.55
73:	0.05	0.05	0.05	0.05	0.06	0.07	0.07	0.08	0.08	0.07	0.65
74:	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.61
75:	0.05	0.07	0.06	0.04	0.03	0.05	0.05	0.05	0.05	0.06	0.50
76:	0.07	0.06	0.06	0.07	0.06	0.06	0.05	0.05	0.05	0.05	0.58

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
77:	0.05	0.05	0.05	0.05	0.06	0.05	0.04	0.04	0.05	0.05	0.50
78:	0.04	0.05	0.04	0.03	0.02	0.04	0.04	0.04	0.04	0.03	0.37
79:	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.04	0.02	0.03	0.34
80:	0.02	0.03	0.03	0.03	0.03	0.02	0.03	0.04	0.03	0.02	0.27
81:	0.03	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.21
82:	0.01	0.02	0.03	0.03	0.02	0.02	0.02	0.02	0.01	0.02	0.20
83:	0.02	0.01	0.02	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.15
84:	0.02	0.02	0.01	0.02	0.00	0.02	0.01	0.01	0.01	0.01	0.12
85:	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
86:	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
87:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
88:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
89:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
90:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
91:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Exceedance Chart

S005_BIY040007_15052024_183803: Exceedance Chart



Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
---	----	----	----	----	----	----	----	----	----	----

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		80.1	77.4	75.6	73.8	72.1	70.9	69.8	68.8	67.8
10%:	67.0	66.2	65.5	64.9	64.1	63.4	62.8	62.2	61.5	60.7
20%:	59.9	59.2	58.5	57.8	57.1	56.6	56.1	55.6	55.2	54.8
30%:	54.4	54.0	53.7	53.4	53.1	52.7	52.4	52.1	51.8	51.5
40%:	51.1	50.9	50.6	50.4	50.1	49.9	49.7	49.5	49.3	49.1
50%:	48.9	48.7	48.6	48.4	48.3	48.1	48.0	47.9	47.7	47.6
60%:	47.5	47.4	47.3	47.2	47.1	47.0	46.9	46.8	46.7	46.6
70%:	46.5	46.4	46.3	46.2	46.1	46.0	45.9	45.8	45.7	45.6
80%:	45.5	45.4	45.3	45.2	45.1	45.0	44.9	44.8	44.7	44.6
90%:	44.5	44.4	44.2	44.1	43.9	43.7	43.5	43.2	42.9	42.4
100%:	40.3									

PM Southern Area Session Report

5/15/2024

Information Panel

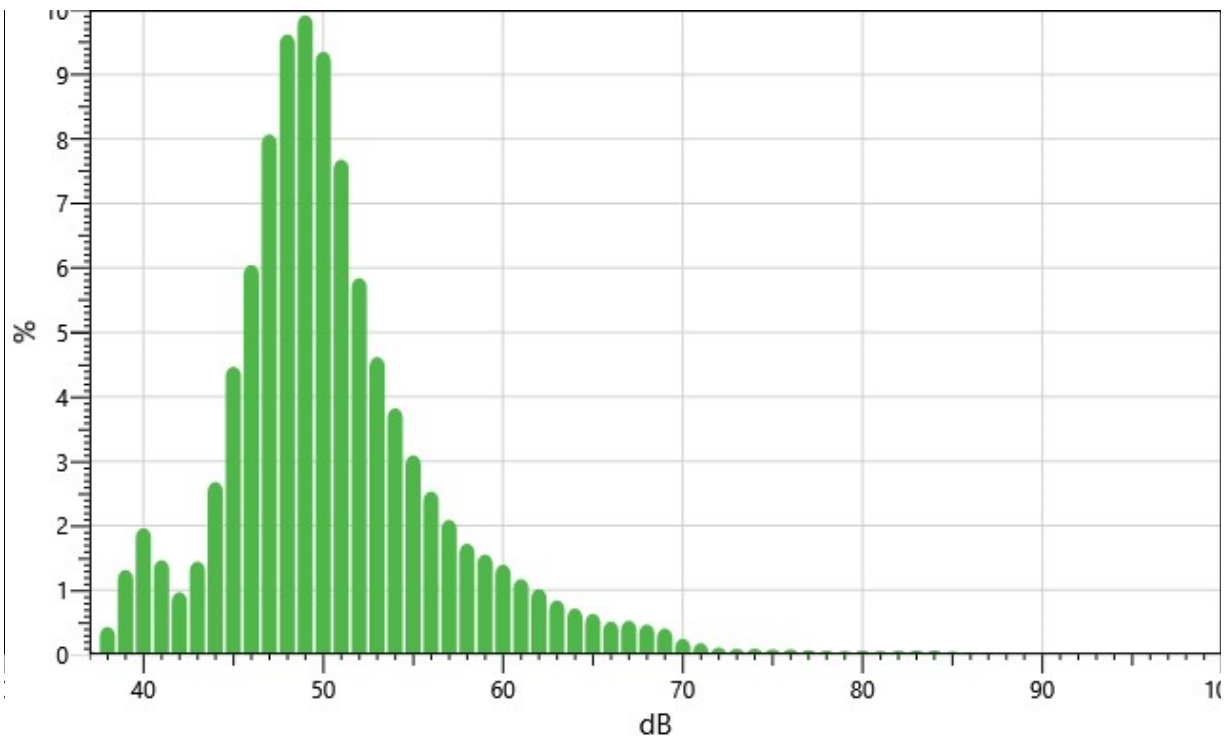
Name S006_BIY040007_15052024_183804
Start Time 5/15/2024 10:40:46 AM
Stop Time 5/15/2024 3:21:04 PM
Device Name BIY040007
Model Type SoundPro DL
Device Firmware Rev R.13J
Comments

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
LDN	1	63.3 dB	Lmax	1	98.6 dB
Lmin	1	37.2 dB			

Statistics Chart

S006_BIY040007_15052024_183804: Statistics Chart



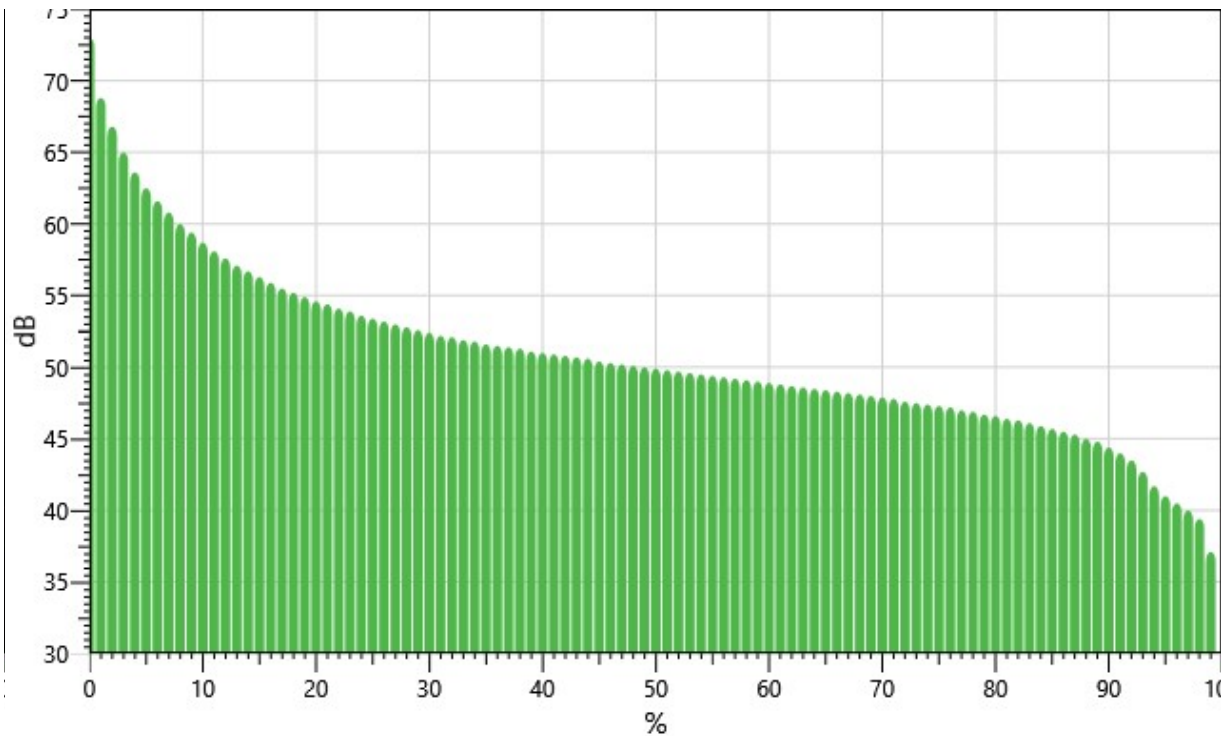
Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
37:	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.05
38:	0.02	0.02	0.03	0.03	0.04	0.04	0.05	0.06	0.07	0.07	0.43
39:	0.10	0.11	0.05	0.10	0.13	0.14	0.15	0.17	0.18	0.19	1.32
40:	0.21	0.19	0.20	0.19	0.20	0.20	0.20	0.20	0.19	0.18	1.96
41:	0.17	0.15	0.17	0.17	0.16	0.14	0.14	0.13	0.13	0.11	1.47
42:	0.11	0.12	0.06	0.08	0.10	0.10	0.10	0.10	0.11	0.09	0.97
43:	0.10	0.11	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.18	1.44
44:	0.21	0.21	0.22	0.23	0.24	0.26	0.28	0.31	0.34	0.39	2.68
45:	0.43	0.49	0.33	0.32	0.48	0.48	0.48	0.48	0.48	0.50	4.47
46:	0.52	0.54	0.56	0.57	0.59	0.60	0.64	0.66	0.68	0.68	6.05
47:	0.70	0.72	0.74	0.74	0.78	0.81	0.85	0.88	0.91	0.94	8.07
48:	1.02	1.08	0.84	0.58	1.01	1.01	1.00	1.03	1.03	1.03	9.62
49:	1.01	1.01	1.01	1.00	1.01	1.01	1.01	0.98	0.96	0.94	9.92
50:	0.92	0.93	0.91	0.92	0.95	0.95	0.95	0.96	0.94	0.94	9.35
51:	0.93	0.93	0.81	0.40	0.82	0.80	0.79	0.76	0.74	0.71	7.68
52:	0.69	0.67	0.65	0.61	0.59	0.57	0.54	0.52	0.51	0.49	5.84
53:	0.49	0.49	0.47	0.47	0.45	0.45	0.46	0.44	0.44	0.45	4.62
54:	0.46	0.47	0.45	0.15	0.40	0.40	0.39	0.37	0.38	0.36	3.82
55:	0.34	0.34	0.33	0.32	0.31	0.30	0.30	0.28	0.29	0.28	3.09
56:	0.28	0.26	0.26	0.26	0.26	0.25	0.24	0.24	0.24	0.25	2.53
57:	0.24	0.25	0.25	0.08	0.22	0.21	0.21	0.21	0.21	0.20	2.09
58:	0.19	0.19	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	1.72
59:	0.16	0.15	0.16	0.16	0.15	0.14	0.16	0.16	0.16	0.16	1.55
60:	0.15	0.17	0.17	0.05	0.15	0.13	0.13	0.14	0.15	0.15	1.40
61:	0.14	0.13	0.13	0.12	0.11	0.11	0.11	0.11	0.11	0.11	1.17
62:	0.10	0.10	0.10	0.10	0.11	0.10	0.10	0.10	0.10	0.10	1.02
63:	0.11	0.10	0.10	0.03	0.09	0.09	0.09	0.08	0.08	0.08	0.84
64:	0.08	0.08	0.07	0.08	0.07	0.07	0.07	0.07	0.06	0.07	0.72
65:	0.07	0.07	0.06	0.06	0.06	0.07	0.06	0.06	0.06	0.06	0.63
66:	0.06	0.05	0.05	0.02	0.05	0.05	0.05	0.06	0.06	0.06	0.51
67:	0.06	0.06	0.05	0.05	0.05	0.06	0.05	0.05	0.05	0.05	0.53
68:	0.05	0.05	0.05	0.05	0.05	0.04	0.05	0.05	0.05	0.05	0.47
69:	0.05	0.05	0.05	0.03	0.04	0.04	0.04	0.04	0.03	0.03	0.41
70:	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.25
71:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.18
72:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.11
73:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.09

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
74:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.09
75:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.08
76:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.08
77:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.07
78:	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.00	0.06
79:	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.06
80:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.06
81:	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.01	0.01	0.06
82:	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.06
83:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.06
84:	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.07
85:	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.05
86:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
87:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
88:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
89:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
90:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
91:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
93:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
94:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
96:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
98:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Exceedance Chart

S006_BIY040007_15052024_183804: Exceedance Chart

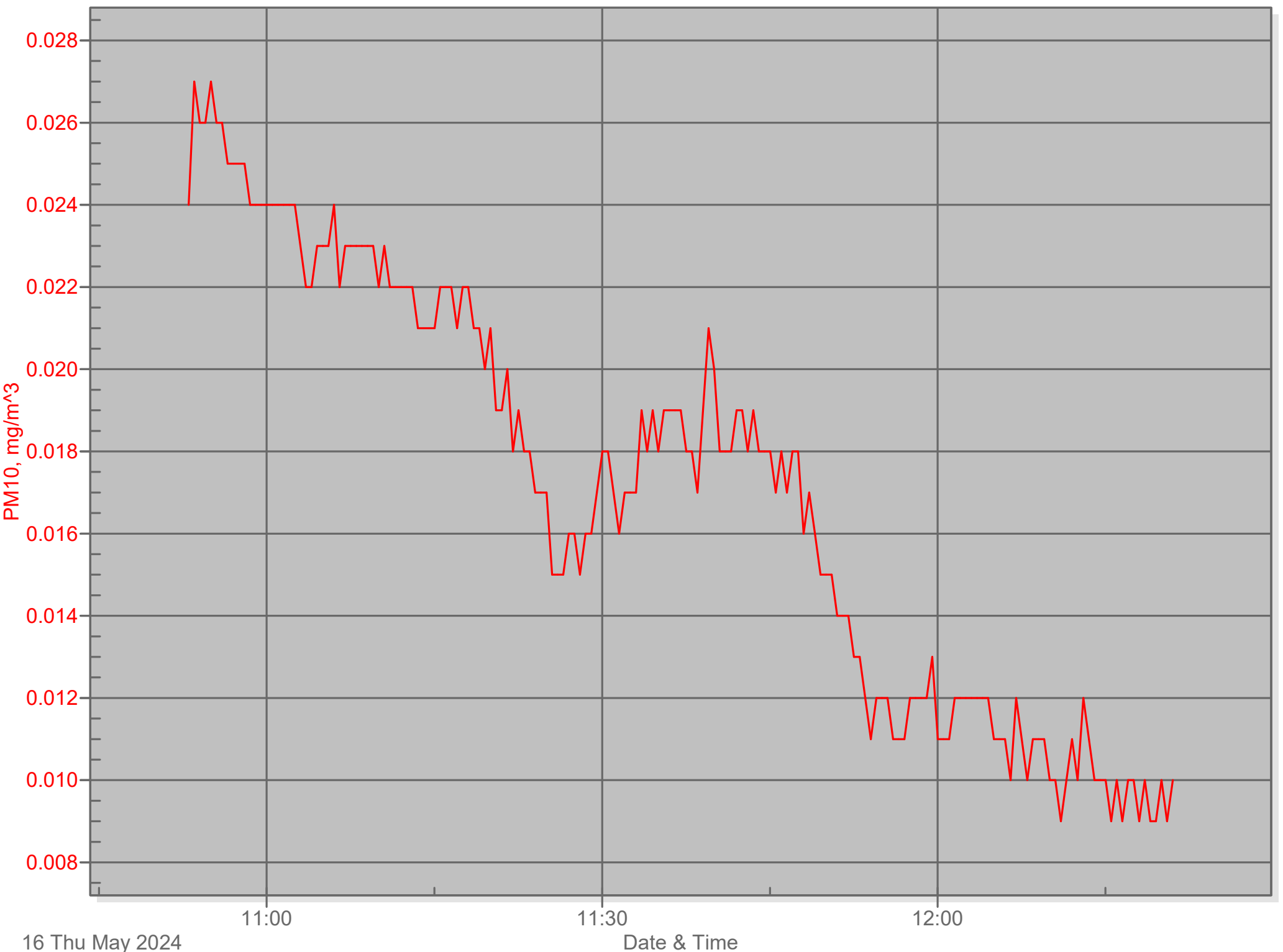


Exceedance Table

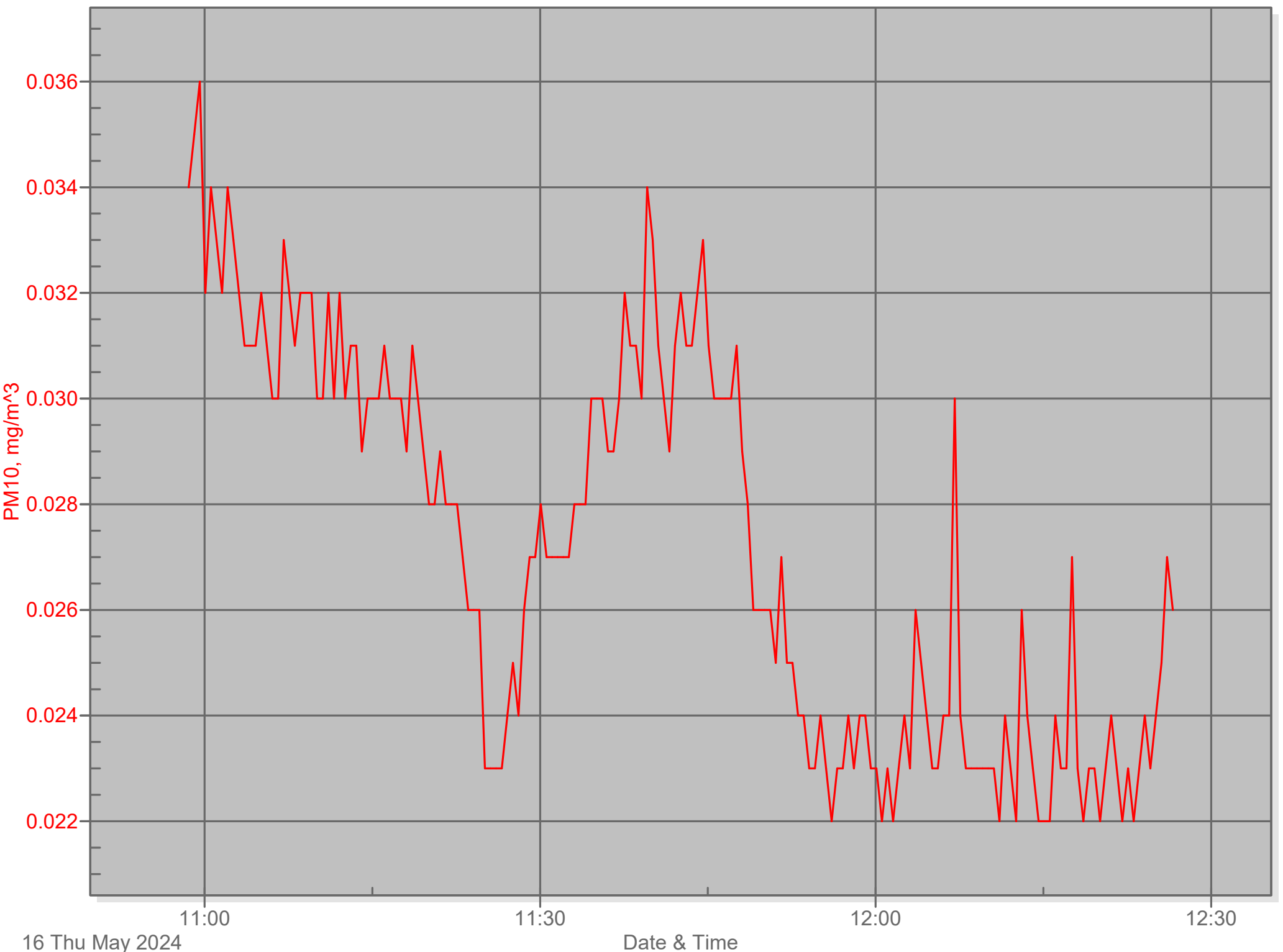
.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		73.0	68.8	66.8	65.0	63.6	62.5	61.6	60.8	60.0
10%:	59.4	58.7	58.1	57.6	57.1	56.7	56.3	55.9	55.5	55.2
20%:	54.9	54.6	54.4	54.1	53.9	53.6	53.4	53.2	53.0	52.8
30%:	52.6	52.4	52.2	52.1	51.9	51.8	51.6	51.5	51.4	51.3
40%:	51.1	51.0	50.9	50.8	50.7	50.6	50.4	50.3	50.2	50.1
50%:	50.0	49.9	49.8	49.7	49.6	49.5	49.4	49.3	49.2	49.1
60%:	49.0	48.9	48.8	48.7	48.6	48.5	48.4	48.3	48.2	48.1
70%:	48.0	47.9	47.8	47.6	47.5	47.4	47.3	47.2	47.0	46.9
80%:	46.7	46.6	46.4	46.3	46.1	45.9	45.7	45.5	45.3	45.0
90%:	44.8	44.4	44.0	43.5	42.7	41.7	41.0	40.5	40.0	39.4
100%:	37.1									

Particulate Monitoring Data
May 16, 2024

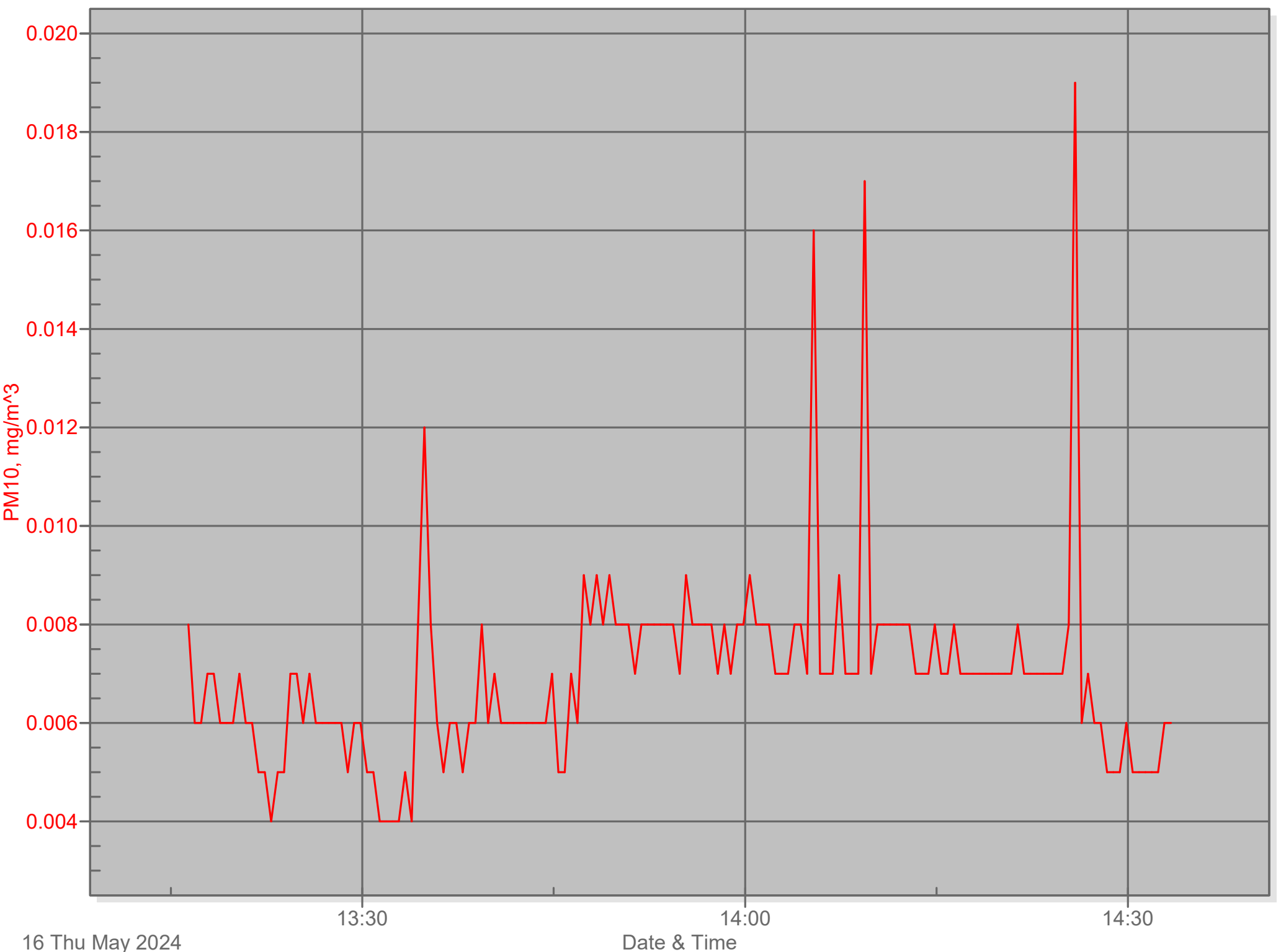
05162024 Upwind Northern Data



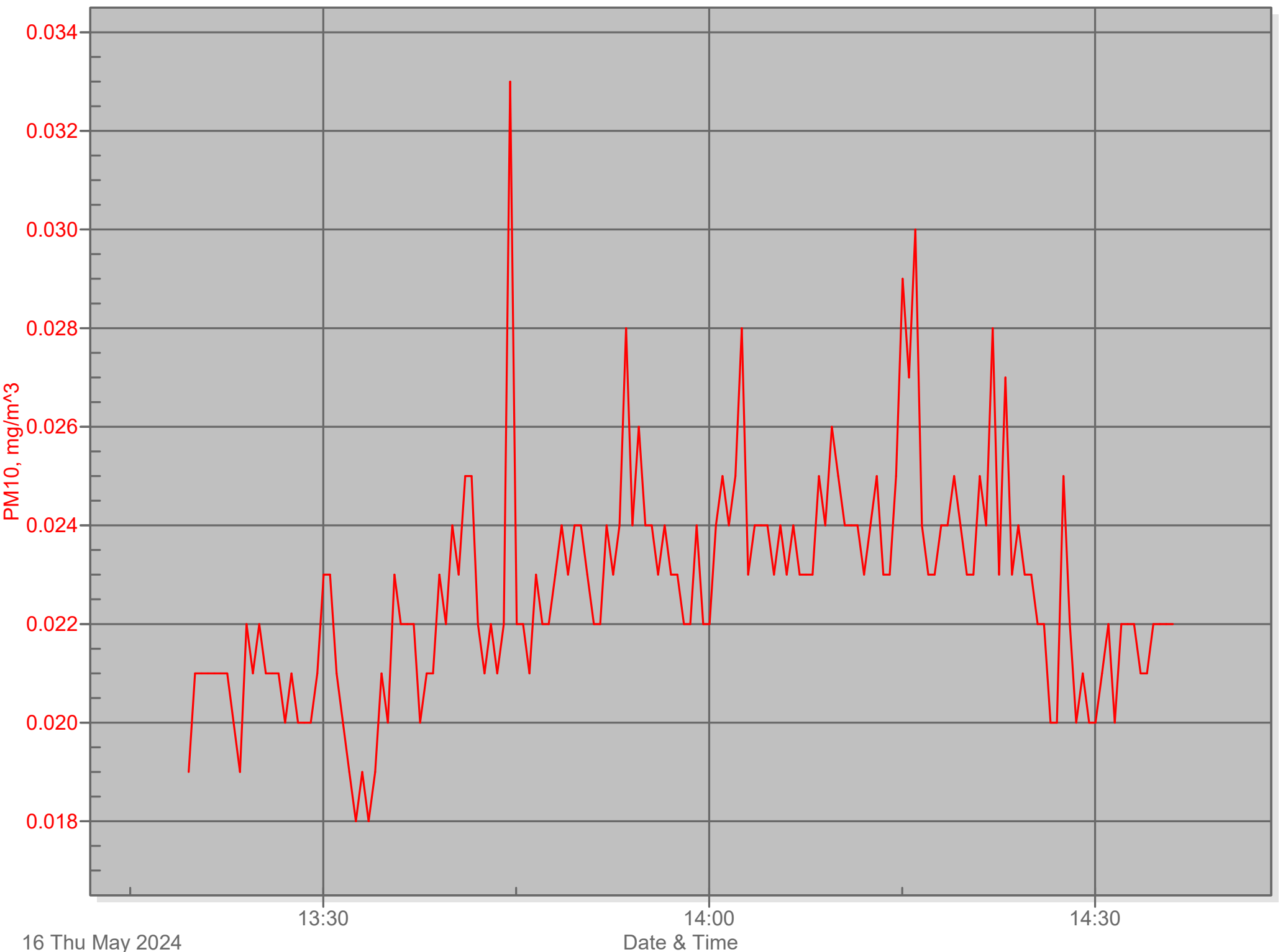
05162024 Downwind Northern Area



05162024 Upwind Southern Data



05162024 Downwind Southern Area



PID Monitoring Data
May 16, 2024

AM Northern Area Datalog

Current Event:00/01/03 03:17

Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-000821
Unit Firmware Ver	V2.16

Running Mode	Search Mode
Datalog Mode	Auto
Diagnostic Mode	No
Stop Reason	Stop by User

Site ID	RAE00238
User ID	00000001

Begin	1/3/2000 03:17:52
End	1/3/2000 04:45:26
Sample Period(s)	60
Number of Records	87

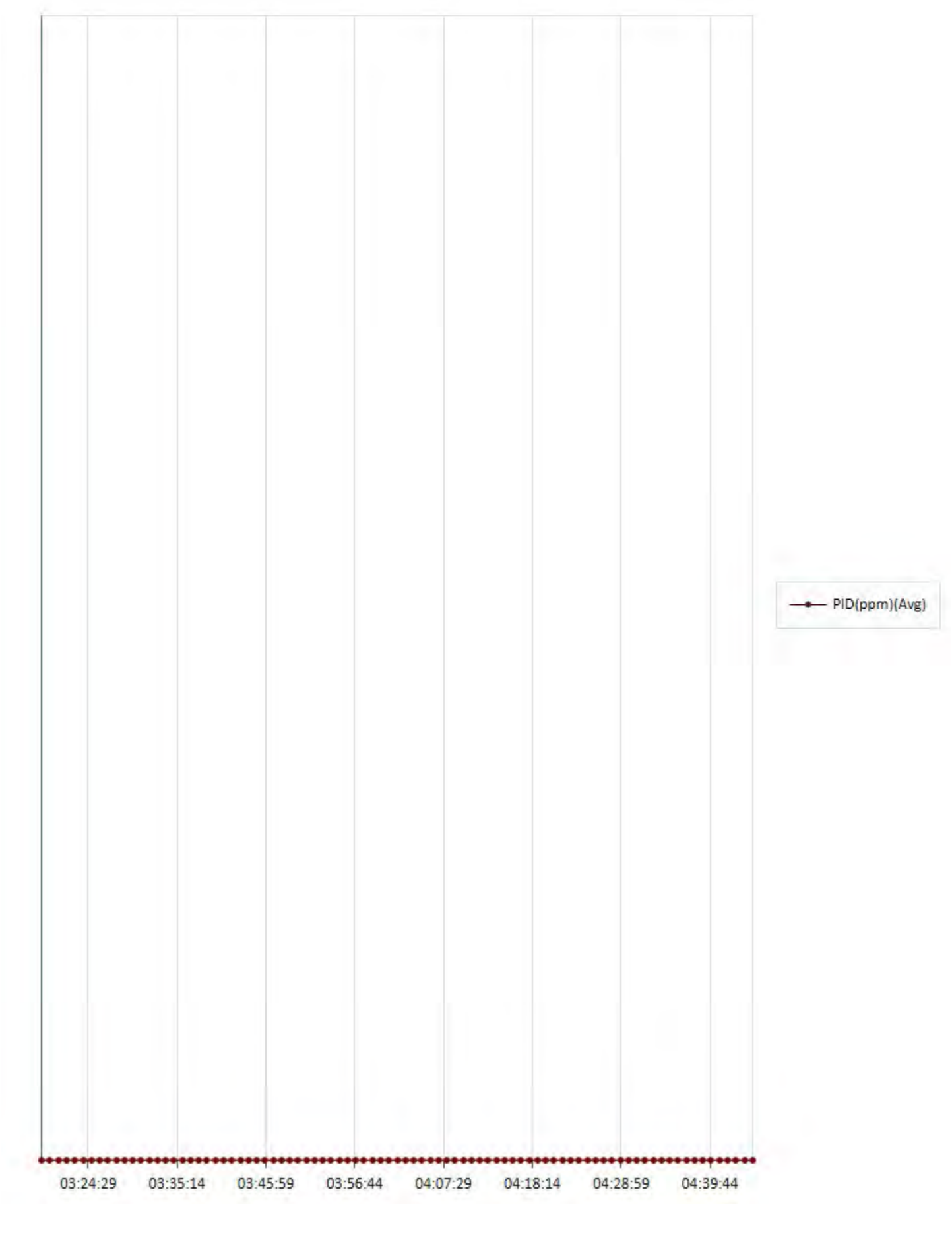
Sensor	PID(ppm)
Sensor SN	S0092J1W0061
Measure Type	Avg
Span	100.0
Span 2	1000.0
Low Alarm	50.0
High Alarm	100.0
Over Alarm	15000.0
STEL Alarm	100.0
TWA Alarm	50.0
Measurement Gas	Isobutylene
Calibration Time	1/2/2000 11:10
Peak	N/A
Min	N/A
Average	N/A

Sheet

Index	Date/Time	PID(ppm) (Avg)
001	1/3/2000 03:18:52	0.0
002	1/3/2000 03:19:52	0.0
003	1/3/2000 03:20:52	0.0
004	1/3/2000 03:21:52	0.0
005	1/3/2000 03:22:52	0.0
006	1/3/2000 03:23:52	0.0
007	1/3/2000 03:24:52	0.0
008	1/3/2000 03:25:52	0.0
009	1/3/2000 03:26:52	0.0
010	1/3/2000 03:27:52	0.0
011	1/3/2000 03:28:52	0.0
012	1/3/2000 03:29:52	0.0
013	1/3/2000 03:30:52	0.0
014	1/3/2000 03:31:52	0.0
015	1/3/2000 03:32:52	0.0
016	1/3/2000 03:33:52	0.0
017	1/3/2000 03:34:52	0.0
018	1/3/2000 03:35:52	0.0
019	1/3/2000 03:36:52	0.0
020	1/3/2000 03:37:52	0.0
021	1/3/2000 03:38:52	0.0
022	1/3/2000 03:39:52	0.0
023	1/3/2000 03:40:52	0.0
024	1/3/2000 03:41:52	0.0
025	1/3/2000 03:42:52	0.0
026	1/3/2000 03:43:52	0.0
027	1/3/2000 03:44:52	0.0
028	1/3/2000 03:45:52	0.0
029	1/3/2000 03:46:52	0.0
030	1/3/2000 03:47:52	0.0
031	1/3/2000 03:48:52	0.0
032	1/3/2000 03:49:52	0.0
033	1/3/2000 03:50:52	0.0
034	1/3/2000 03:51:52	0.0
035	1/3/2000 03:52:52	0.0
036	1/3/2000 03:53:52	0.0
037	1/3/2000 03:54:52	0.0
038	1/3/2000 03:55:52	0.0
039	1/3/2000 03:56:52	0.0
040	1/3/2000 03:57:52	0.0
041	1/3/2000 03:58:52	0.0
042	1/3/2000 03:59:52	0.0
043	1/3/2000 04:00:52	0.0
044	1/3/2000 04:01:52	0.0
045	1/3/2000 04:02:52	0.0
046	1/3/2000 04:03:52	0.0
047	1/3/2000 04:04:52	0.0
048	1/3/2000 04:05:52	0.0
049	1/3/2000 04:06:52	0.0
050	1/3/2000 04:07:52	0.0
051	1/3/2000 04:08:52	0.0
052	1/3/2000 04:09:52	0.0
053	1/3/2000 04:10:52	0.0
054	1/3/2000 04:11:52	0.0
055	1/3/2000 04:12:52	0.0
056	1/3/2000 04:13:52	0.0
057	1/3/2000 04:14:52	0.0
058	1/3/2000 04:15:52	0.0
059	1/3/2000 04:16:52	0.0
060	1/3/2000 04:17:52	0.0
061	1/3/2000 04:18:52	0.0

062	1/3/2000 04:19:52	0.0
063	1/3/2000 04:20:52	0.0
064	1/3/2000 04:21:52	0.0
065	1/3/2000 04:22:52	0.0
066	1/3/2000 04:23:52	0.0
067	1/3/2000 04:24:52	0.0
068	1/3/2000 04:25:52	0.0
069	1/3/2000 04:26:52	0.0
070	1/3/2000 04:27:52	0.0
071	1/3/2000 04:28:52	0.0
072	1/3/2000 04:29:52	0.0
073	1/3/2000 04:30:52	0.0
074	1/3/2000 04:31:52	0.0
075	1/3/2000 04:32:52	0.0
076	1/3/2000 04:33:52	0.0
077	1/3/2000 04:34:52	0.0
078	1/3/2000 04:35:52	0.0
079	1/3/2000 04:36:52	0.0
080	1/3/2000 04:37:52	0.0
081	1/3/2000 04:38:52	0.0
082	1/3/2000 04:39:52	0.0
083	1/3/2000 04:40:52	0.0
084	1/3/2000 04:41:52	0.0
085	1/3/2000 04:42:52	0.0
086	1/3/2000 04:43:52	0.0
087	1/3/2000 04:44:52	0.0
Peak		0.0
Min		0.0
Average		0.0

Graph



Notes:

1. Date Issue. PID was programed with correct date during calibration but was unable to maintain saved date information in output of test results.
2. No detections above background of 0.0 PPM.

PM Southern Area Datalog

Current Event:00/01/03 05:38

Summary

Unit Name	MiniRAE 3000(PGM-7320)
Unit SN	592-000821
Unit Firmware Ver	V2.16

Running Mode	Search Mode
Datalog Mode	Auto
Diagnostic Mode	No
Stop Reason	Stop by User

Site ID	RAE00239
User ID	00000001

Begin	1/3/2000 05:38:22
End	1/3/2000 06:54:42
Sample Period(s)	60
Number of Records	76

Sensor	PID(ppm)
Sensor SN	S0092J1W0061
Measure Type	Avg
Span	100.0
Span 2	1000.0
Low Alarm	50.0
High Alarm	100.0
Over Alarm	15000.0
STEL Alarm	100.0
TWA Alarm	50.0
Measurement Gas	Isobutylene
Calibration Time	1/2/2000 11:10
Peak	N/A
Min	N/A
Average	N/A

Sheet

Index	Date/Time	PID(ppm) (Avg)
001	1/3/2000 05:39:22	0.0
002	1/3/2000 05:40:22	0.0
003	1/3/2000 05:41:22	0.0
004	1/3/2000 05:42:22	0.0
005	1/3/2000 05:43:22	0.0
006	1/3/2000 05:44:22	0.0
007	1/3/2000 05:45:22	0.0
008	1/3/2000 05:46:22	0.0
009	1/3/2000 05:47:22	0.0
010	1/3/2000 05:48:22	0.0
011	1/3/2000 05:49:22	0.0
012	1/3/2000 05:50:22	0.0
013	1/3/2000 05:51:22	0.0
014	1/3/2000 05:52:22	0.0
015	1/3/2000 05:53:22	0.0
016	1/3/2000 05:54:22	0.0
017	1/3/2000 05:55:22	0.0
018	1/3/2000 05:56:22	0.0
019	1/3/2000 05:57:22	0.0
020	1/3/2000 05:58:22	0.0
021	1/3/2000 05:59:22	0.0
022	1/3/2000 06:00:22	0.0
023	1/3/2000 06:01:22	0.0
024	1/3/2000 06:02:22	0.0
025	1/3/2000 06:03:22	0.0
026	1/3/2000 06:04:22	0.0
027	1/3/2000 06:05:22	0.0
028	1/3/2000 06:06:22	0.0
029	1/3/2000 06:07:22	0.0
030	1/3/2000 06:08:22	0.0
031	1/3/2000 06:09:22	0.0
032	1/3/2000 06:10:22	0.0
033	1/3/2000 06:11:22	0.0
034	1/3/2000 06:12:22	0.0
035	1/3/2000 06:13:22	0.0
036	1/3/2000 06:14:22	0.0
037	1/3/2000 06:15:22	0.0
038	1/3/2000 06:16:22	0.0
039	1/3/2000 06:17:22	0.0
040	1/3/2000 06:18:22	0.0
041	1/3/2000 06:19:22	0.0
042	1/3/2000 06:20:22	0.0
043	1/3/2000 06:21:22	0.0
044	1/3/2000 06:22:22	0.0
045	1/3/2000 06:23:22	0.0
046	1/3/2000 06:24:22	0.0
047	1/3/2000 06:25:22	0.0
048	1/3/2000 06:26:22	0.0
049	1/3/2000 06:27:22	0.0
050	1/3/2000 06:28:22	0.0
051	1/3/2000 06:29:22	0.0
052	1/3/2000 06:30:22	0.0
053	1/3/2000 06:31:22	0.0
054	1/3/2000 06:32:22	0.0
055	1/3/2000 06:33:22	0.0
056	1/3/2000 06:34:22	0.0
057	1/3/2000 06:35:22	0.0
058	1/3/2000 06:36:22	0.0
059	1/3/2000 06:37:22	0.0
060	1/3/2000 06:38:22	0.0
061	1/3/2000 06:39:22	0.0

062	1/3/2000 06:40:22	0.0
063	1/3/2000 06:41:22	0.0
064	1/3/2000 06:42:22	0.0
065	1/3/2000 06:43:22	0.0
066	1/3/2000 06:44:22	0.0
067	1/3/2000 06:45:22	0.0
068	1/3/2000 06:46:22	0.0
069	1/3/2000 06:47:22	0.0
070	1/3/2000 06:48:22	0.0
071	1/3/2000 06:49:22	0.0
072	1/3/2000 06:50:22	0.0
073	1/3/2000 06:51:22	0.0
074	1/3/2000 06:52:22	0.0
075	1/3/2000 06:53:22	0.0
076	1/3/2000 06:54:22	0.0
Peak		0.0
Min		0.0
Average		0.0

Graph



Notes

1. Date Issue. PID was programed with correct date during calibration but was unable to maintain saved date information in output of test results.
2. No detections above background of 0.0 PPM.

Sound Monitoring Data
May 16, 2024

AM Northern Area Session Report

5/16/2024

Information Panel

Name S007_BIY040007_16052024_170941

Start Time 5/16/2024 9:59:27 AM

Stop Time 5/16/2024 11:27:24 AM

Device Name BIY040007

Model Type SoundPro DL

Device Firmware Rev R.13J

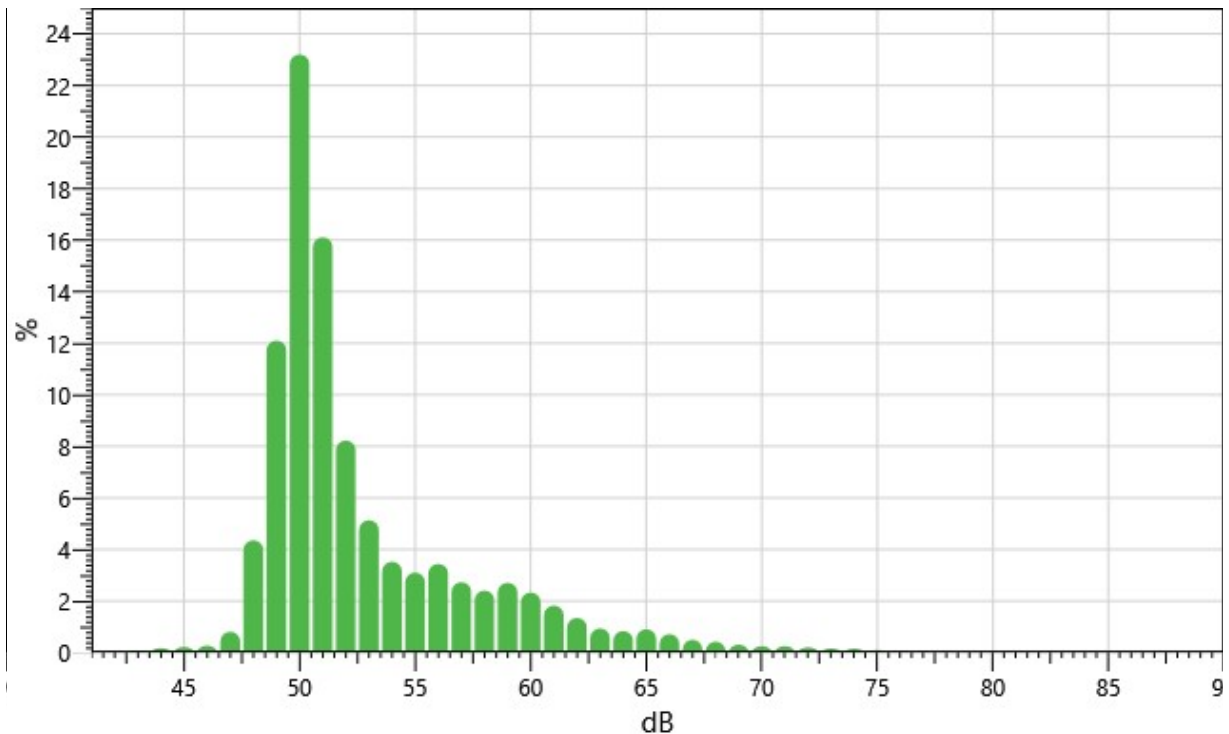
Comments

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
LDN	1	58.9 dB	Lmax	1	90 dB
Lmin	1	41.4 dB			

Statistics Chart

S007_BIY040007_16052024_170941: Statistics Chart



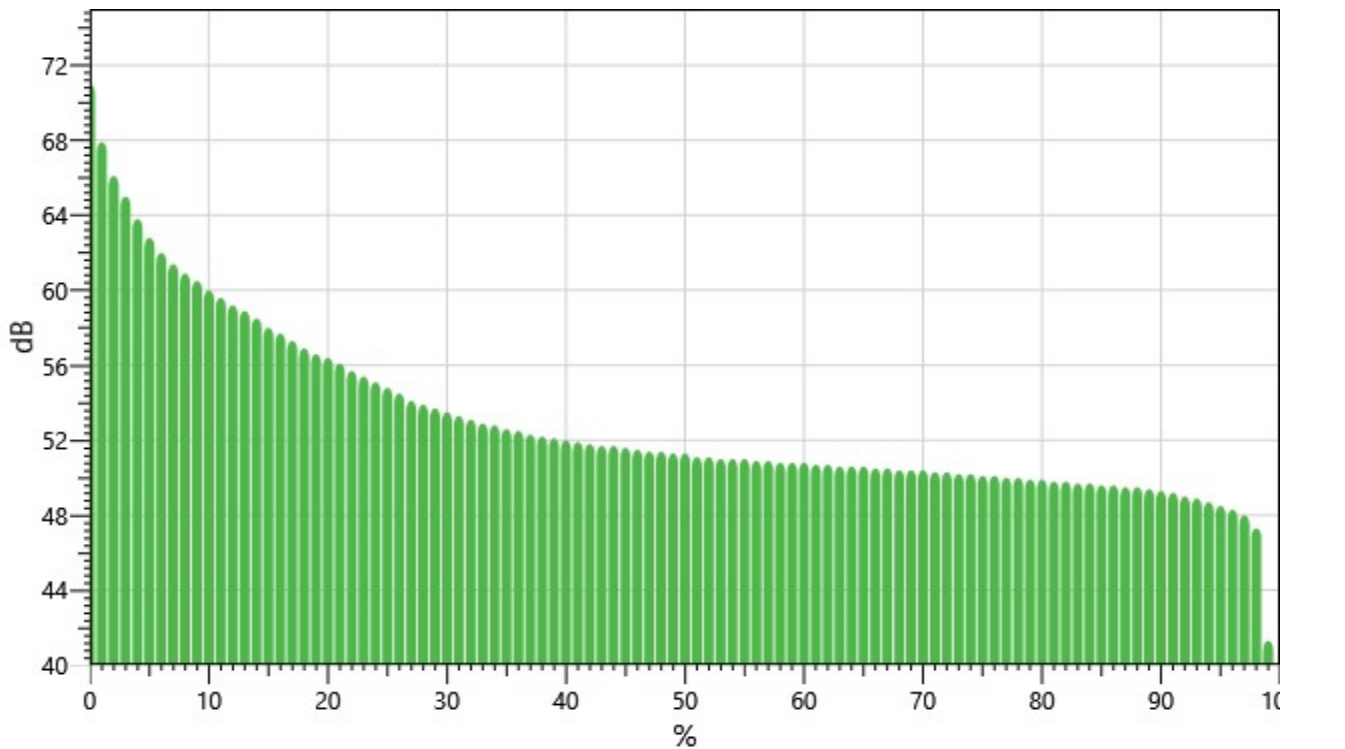
Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
41:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
42:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.04
43:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.09
44:	0.01	0.01	0.01	0.02	0.01	0.02	0.02	0.02	0.03	0.02	0.17
45:	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.02	0.22
46:	0.02	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.03	0.03	0.27
47:	0.04	0.04	0.05	0.05	0.05	0.06	0.07	0.08	0.13	0.23	0.81
48:	0.31	0.33	0.31	0.21	0.41	0.51	0.55	0.59	0.57	0.57	4.35
49:	0.58	0.60	0.64	0.70	0.93	1.28	1.55	1.80	2.00	2.03	12.10
50:	2.11	2.08	2.09	2.15	2.19	2.34	2.47	2.60	2.55	2.62	23.20
51:	2.49	2.37	1.96	0.84	1.69	1.53	1.44	1.35	1.25	1.18	16.11
52:	1.07	1.02	0.93	0.84	0.79	0.78	0.74	0.75	0.67	0.65	8.22
53:	0.62	0.58	0.51	0.49	0.48	0.48	0.48	0.51	0.50	0.49	5.13
54:	0.48	0.45	0.41	0.14	0.36	0.36	0.37	0.32	0.31	0.31	3.52
55:	0.29	0.29	0.29	0.30	0.30	0.34	0.33	0.34	0.31	0.31	3.10
56:	0.31	0.31	0.33	0.32	0.32	0.36	0.37	0.38	0.38	0.36	3.44
57:	0.34	0.36	0.33	0.10	0.28	0.27	0.28	0.25	0.26	0.26	2.73
58:	0.28	0.22	0.24	0.23	0.20	0.23	0.25	0.24	0.25	0.26	2.41
59:	0.27	0.28	0.27	0.29	0.27	0.28	0.26	0.27	0.27	0.25	2.71
60:	0.26	0.26	0.26	0.09	0.25	0.25	0.25	0.25	0.24	0.23	2.33
61:	0.21	0.22	0.19	0.19	0.18	0.19	0.16	0.16	0.16	0.15	1.82
62:	0.16	0.15	0.14	0.13	0.13	0.13	0.12	0.12	0.13	0.13	1.34
63:	0.12	0.14	0.13	0.03	0.11	0.09	0.08	0.08	0.08	0.08	0.94
64:	0.07	0.08	0.07	0.07	0.08	0.09	0.11	0.10	0.08	0.08	0.84
65:	0.08	0.10	0.09	0.08	0.08	0.09	0.10	0.09	0.09	0.09	0.90
66:	0.09	0.09	0.08	0.04	0.07	0.08	0.08	0.06	0.06	0.05	0.71
67:	0.06	0.06	0.06	0.05	0.05	0.04	0.05	0.05	0.05	0.04	0.50
68:	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.42
69:	0.03	0.04	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.30
70:	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.25
71:	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.25
72:	0.02	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.20
73:	0.01	0.02	0.02	0.02	0.01	0.02	0.02	0.01	0.02	0.01	0.16
74:	0.01	0.01	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.15
75:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10
76:	0.01	0.01	0.01	0.00	0.01	0.01	0.00	0.01	0.00	0.01	0.07
77:	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.04

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
78:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
79:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
80:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
81:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
82:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
83:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Exceedance Chart

S007_BIY040007_16052024_170941: Exceedance Chart



Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		71.0	67.9	66.1	65.0	63.8	62.8	62.0	61.4	60.9
10%:	60.5	60.0	59.6	59.2	58.9	58.5	58.0	57.7	57.3	56.9
20%:	56.6	56.4	56.1	55.7	55.4	55.1	54.8	54.5	54.1	53.9

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
30%:	53.7	53.5	53.3	53.1	52.9	52.8	52.6	52.5	52.3	52.2
40%:	52.1	52.0	51.9	51.8	51.7	51.7	51.6	51.5	51.4	51.4
50%:	51.3	51.3	51.1	51.1	51.0	51.0	51.0	50.9	50.9	50.8
60%:	50.8	50.8	50.7	50.7	50.6	50.6	50.6	50.5	50.5	50.4
70%:	50.4	50.4	50.3	50.3	50.2	50.2	50.1	50.1	50.0	50.0
80%:	49.9	49.9	49.8	49.8	49.7	49.7	49.6	49.6	49.5	49.5
90%:	49.4	49.3	49.2	49.0	48.9	48.7	48.5	48.3	48.0	47.3
100%:	41.3									

PM Southern Area Session Report

5/16/2024

Information Panel

Name S008_BIY040007_16052024_170942

Start Time 5/16/2024 12:20:04 PM

Stop Time 5/16/2024 2:22:10 PM

Device Name BIY040007

Model Type SoundPro DL

Device Firmware Rev R.13J

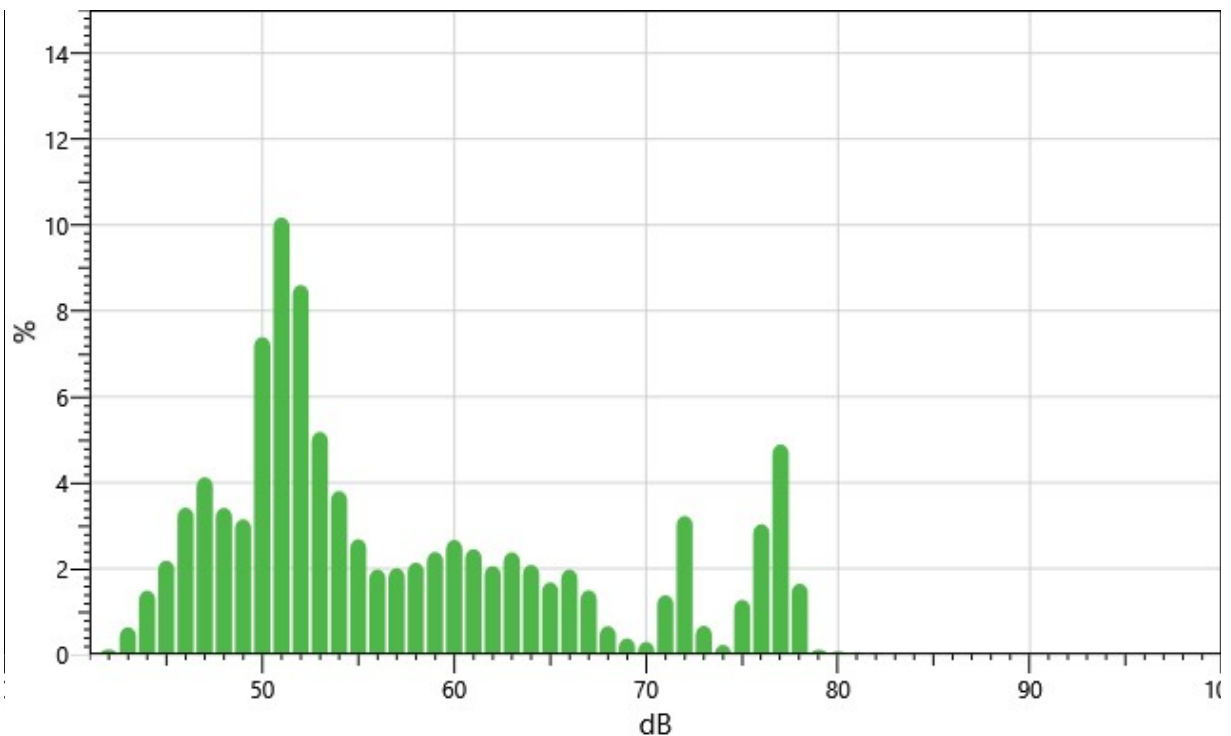
Comments

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
LDN	1	69.4 dB	Lmax	1	93.8 dB
Lmin	1	41.1 dB			

Statistics Chart

S008_BIY040007_16052024_170942: Statistics Chart



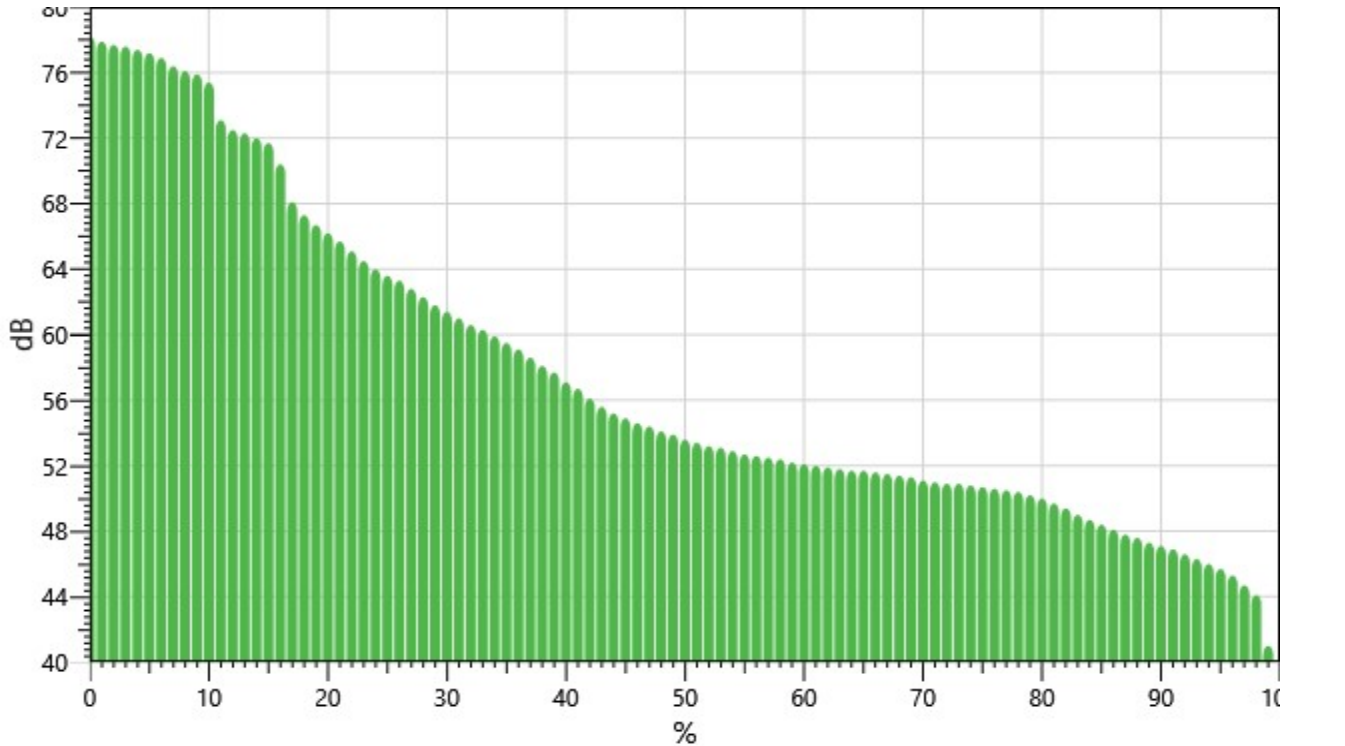
Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
41:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
42:	0.00	0.01	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.03	0.13
43:	0.03	0.04	0.04	0.05	0.06	0.06	0.07	0.09	0.10	0.10	0.64
44:	0.10	0.12	0.11	0.13	0.13	0.14	0.17	0.19	0.20	0.19	1.49
45:	0.21	0.20	0.14	0.14	0.21	0.23	0.24	0.24	0.28	0.28	2.19
46:	0.29	0.30	0.31	0.32	0.34	0.35	0.36	0.37	0.39	0.39	3.42
47:	0.43	0.44	0.44	0.43	0.41	0.39	0.40	0.40	0.40	0.39	4.13
48:	0.39	0.42	0.32	0.22	0.37	0.36	0.37	0.34	0.32	0.32	3.42
49:	0.31	0.29	0.28	0.29	0.29	0.31	0.32	0.36	0.35	0.36	3.15
50:	0.37	0.38	0.45	0.52	0.64	0.78	0.95	1.07	1.10	1.14	7.39
51:	1.17	1.09	0.95	0.46	1.02	1.06	1.06	1.10	1.15	1.11	10.17
52:	1.08	1.01	0.93	0.90	0.88	0.84	0.80	0.76	0.73	0.67	8.60
53:	0.63	0.62	0.60	0.57	0.51	0.47	0.47	0.43	0.44	0.45	5.19
54:	0.44	0.47	0.48	0.15	0.42	0.39	0.38	0.37	0.37	0.34	3.81
55:	0.36	0.34	0.32	0.29	0.27	0.25	0.23	0.21	0.21	0.21	2.69
56:	0.19	0.20	0.20	0.20	0.18	0.18	0.20	0.21	0.21	0.21	1.98
57:	0.19	0.20	0.22	0.07	0.21	0.22	0.24	0.22	0.21	0.22	2.01
58:	0.24	0.24	0.23	0.21	0.22	0.21	0.20	0.20	0.20	0.20	2.14
59:	0.21	0.21	0.19	0.21	0.22	0.24	0.26	0.28	0.29	0.29	2.39
60:	0.29	0.30	0.31	0.09	0.30	0.29	0.27	0.27	0.27	0.28	2.67
61:	0.28	0.27	0.26	0.23	0.23	0.24	0.25	0.24	0.24	0.23	2.46
62:	0.22	0.23	0.20	0.20	0.20	0.20	0.19	0.19	0.21	0.22	2.06
63:	0.23	0.24	0.25	0.09	0.27	0.26	0.27	0.27	0.26	0.25	2.38
64:	0.25	0.24	0.22	0.21	0.20	0.20	0.19	0.20	0.20	0.18	2.09
65:	0.19	0.18	0.17	0.17	0.15	0.16	0.16	0.16	0.17	0.17	1.68
66:	0.18	0.20	0.22	0.10	0.20	0.22	0.22	0.22	0.22	0.20	1.98
67:	0.17	0.18	0.15	0.15	0.17	0.17	0.15	0.13	0.12	0.10	1.50
68:	0.09	0.09	0.08	0.08	0.07	0.06	0.05	0.05	0.04	0.05	0.66
69:	0.05	0.05	0.04	0.02	0.03	0.04	0.04	0.04	0.04	0.04	0.38
70:	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.30
71:	0.04	0.05	0.06	0.08	0.11	0.13	0.17	0.20	0.25	0.30	1.39
72:	0.35	0.40	0.43	0.26	0.32	0.42	0.36	0.30	0.22	0.16	3.23
73:	0.13	0.12	0.10	0.09	0.07	0.05	0.04	0.03	0.03	0.02	0.67
74:	0.02	0.02	0.02	0.01	0.02	0.02	0.03	0.03	0.03	0.04	0.23
75:	0.04	0.05	0.07	0.06	0.06	0.11	0.14	0.20	0.25	0.30	1.28
76:	0.34	0.37	0.40	0.43	0.37	0.32	0.24	0.21	0.19	0.19	3.04
77:	0.23	0.28	0.34	0.44	0.52	0.58	0.64	0.68	0.63	0.55	4.89

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
78:	0.47	0.36	0.28	0.17	0.08	0.11	0.07	0.05	0.04	0.03	1.65
79:	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.12
80:	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.01	0.01	0.01	0.08
81:	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.06
82:	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.04
83:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
84:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
85:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
86:	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.04
87:	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.04
88:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
89:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
90:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
91:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
92:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
93:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Exceedance Chart

S008_BIY040007_16052024_170942: Exceedance Chart



Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
---	----	----	----	----	----	----	----	----	----	----

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		78.2	77.9	77.7	77.6	77.4	77.2	76.9	76.4	76.1
10%:	75.9	75.4	73.1	72.5	72.3	72.0	71.7	70.4	68.1	67.3
20%:	66.7	66.2	65.7	65.1	64.5	64.0	63.6	63.3	62.8	62.3
30%:	61.8	61.4	61.0	60.6	60.3	59.9	59.5	59.1	58.6	58.1
40%:	57.7	57.1	56.7	56.1	55.6	55.2	54.9	54.6	54.4	54.1
50%:	53.9	53.6	53.4	53.2	53.1	52.9	52.7	52.6	52.5	52.4
60%:	52.2	52.1	52.0	51.9	51.8	51.7	51.7	51.6	51.5	51.4
70%:	51.3	51.1	51.0	50.9	50.9	50.8	50.7	50.6	50.5	50.4
80%:	50.2	50.0	49.7	49.4	49.0	48.7	48.4	48.1	47.8	47.6
90%:	47.3	47.1	46.9	46.6	46.3	46.0	45.7	45.3	44.7	44.1
100%:	41.0									

Attachment F:
Weight Tickets

**GOOD EARTH™**5960 Broadway • Lancaster, New York 14086
phone: 716-684-8111 • fax: 716-684-3722

COMPOSTING SIGN IN SHEET

THE DAVEY TREE EXPERT COMPANY

YEAR 2023MONTH DECSHEET# 2

	TRUCK #	TICKET #	WEIGHT	MATERIAL DESCRIPTION	DRIVER SIGNATURE	DATE & TIME
1	1501590		4 yds	chips	Ronald Hark	12/12/23 2:45
2	1501950		7 yds	chips	Signature	12/2/23 4:30
3	1501590		5 yds	chips	E. m. j.	12/13/23 3:20 pm
4	1501385		3 yds	chips	E. m. j.	12/13/23 3:20 pm
5	3002565		6 yds	chips	Signature	12-13-23 3:32 pm
6	1501590		6 yds	chips	Crim Phillips	12/14/23 1:55 PM
7	3400782		7 yds	chips	E. m. j.	12/14/23 2:00 pm
8	3002359		8 yds	chips	Signature	12/15/23 2:25
9	1501590		6 yds	chips	Crim Phillips	12/15/23 2:45
10	1501950		4 yds	chips	Ronald Hark	12/15/23 2:45
11	3400782		5 yds	chips	E. m. j.	
12	1501385		8 yds	chips	noted	12/18/23
13	3400782		5 yds	chips	E. m. j.	12/18/23
14	1501950		6 yds	chips	Signature	12/18/23
15	1501179		7 yds	chips	Signature	12/18/23
TOTAL						

**GOOD EARTH™**5960 Broadway • Lancaster, New York 14086
phone: 716-684-8111 • fax: 716-684-3722

COMPOSTING SIGN IN SHEET

THE DAVEY TREE EXPERT COMPANY

YEAR 2023MONTH DECSHEET# 3

	TRUCK #	TICKET #	WEIGHT	MATERIAL DESCRIPTION	DRIVER SIGNATURE	DATE & TIME
1	3003113		7yds	chips	Brooks	12/18/23 2:45
2	3002359		7yds	chips	Brooks	12/18/23 2:45
3	3003113		7yds	chips	Brooks	12/19/23 10:30
4	1501950		1yd	chips	Brooks	12/19/23 2:45
5	1501885		8yds	chips	Brooks	12/19/23
6	3002545		10yds	chips	Brooks	12/19/23 3:00
7	3002359		10yds	chips	Brooks	12/19/23 3:00
8	3003113		10yds	chips	Brooks	12-19-23 3:00
9	1501588		10yds	chips	Brooks	12-19-23 3:00
10	1501179		10yds	chips	Brooks	12-19-23 3:05
11	3400782		5yds	CHIPS	E. mf	12-19-23 4:20pm
12	3003113		7yds	chips	Brooks	12/20/23 3:25
13	4400109A		14yds	Brush	Brooks	12/20/23 3:30
14	1501950		6yds	chips	Brooks	12/21/23
15	3002435		3yds	chips	Brooks	12/21/23 2:45
TOTAL						

**GOOD EARTH™**5960 Broadway • Lancaster, New York 14086
phone: 716-684-8111 • fax: 716-684-3722

COMPOSTING SIGN IN SHEET

THE DAVEY TREE EXPERT COMPANY

YEAR 2023MONTH DECSHEET# 4

	TRUCK #	TICKET #	WEIGHT	MATERIAL DESCRIPTION	DRIVER SIGNATURE	DATE & TIME
1	1501540		6 yds	chips	Merald Thibault	12/21/23 2:30
2	1501179		8 yds	chips	Dymfarn	12/21/23 3:30
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
TOTAL						

Good Earth Organics Corp

RECEIPT

No. 302108

DATE 5/16/24

FROM Davey Tree

\$

1 Load Grindings

DOLLARS

☐ FOR RENT

☐ FOR WT 20,000

ACCT.	
PAID	
DUE	

- ☐ CASH
☐ CHECK
☐ MONEY ORDER
☐ CREDIT CARD

FROM TO

BY ecoffo

A-1152
T-4161

SHELBY CRUSHED STONE, INC.
10830 BLAIR RD
MEDINA NY, 14103

Truck driver assumes all responsibilities due to exceeding Max. Gross Vehicle Weight.

Customer: CASH
CASH CUSTOMER

12167173
05/16/2024 9:51 AM
Phone: (585) 798-4501
Fax: (585) 798-1451

Order Number: 1
CUST PUP AT SCS
Tons: 38553.357
Loads: 6473

Truck: DAVEY -
Weigh Master: KELLYSC - KELLY WOODROE
Remarks:

Payment Information

Type	Amount	Number
Credit Card	\$492.51	4

Material	Quantity	Price	Material \$	Delivery \$	Fuel Sur \$	Tax \$	Line Total \$
SCREENED TOPSOIL	12.65 tn	\$36.05	\$456.03	\$0.00	\$0.00	\$36.48	\$492.51

Material	Gross	Scale	Tare	Scale	Net	\$492.51
SCTOP	70360 lb	1 9:51 AM	45060 lb	STORED 9:50 AM	25300 lb	

Attachment G:
Photo Log

NFARS Photo Log



12-18-2023, Northern Site



12-18-2023, Checking for Waste

NFARS Photo Log



12-18-2023, Rutting Prevention



12-18-2023. Tree Removal

NFARS Photo Log



12-18-2023, Sound Monitoring



12-18-2023, Checking for Waste

NFARS Photo Log



12-18-2023, Loading Truck

NFARS Photo Log



12-19-2023, Chipping Area



12-19-2023, Southern Portion of Site

NFARS Photo Log



12-19-2023, Tree Chipping on Kinross Street

NFARS Photo Log



12-20-2023, Kinross Street



12-20-2023, Southern Site

NFARS Photo Log



05-14-2024, Stump Grinding



05-14-2024, Monitoring Equipment

NFARS Photo Log



05-14-2024, Metal Fence Post



05-14-2024, Stump Grinding

NFARS Photo Log



05-15-2024, Air Monitoring



05-15-2024, Checking for waste

NFARS Photo Log



05-15-2024, Metal found in grindings

NFARS Photo Log



05-16-2024, Monitoring



05-16-2024, Backfilling

NFARS Photo Log



05-16-2024, Topsoil Receipt



05-16-2024, Backfilled area

NFARS Photo Log



05-16-2024, Grass Seeding

Attachment H:
Topsoil Approval Documentation

Letter of Approval

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 9
700 Delaware Avenue, Buffalo, NY 14209
P: (716) 851-7220 | F: (716) 851-7275
www.dec.ny.gov

April 23, 2024

Keith Fields, PE, PMP
Tidewater, Inc.
3761 Attucks Drive
Powell, Ohio 43065

Dear Keith Fields:

**Niagara Falls Air Reserve Station
Site #932106
Topsoil Import Request
(Shelby Crushed Stone) - Approval**

The New York State Department of Environmental Conservation (the Department) has reviewed the "Shelby Crushed Stone Backfill Request Submittal" received on April 23, 2024 to import up to 50 cubic yards of virgin topsoil from Shelby Crushed Stone located at 10830 Blair Road, Medina, NY to repair depressions in the Niagara Falls Air Reserve Station (NFARS) Site 3 Landfill cap caused by tree removals (tree stump grinding). Based on the analytical data provided, the proposed fill material meets the Unrestricted soil cleanup objectives (SCOs) (Appendix 5 of DER-10). Therefore, this topsoil is suitable for repairs to the landfill cap and the import request is hereby approved.

Testing in accordance with DER-10 and the Site Management Plan and approval by the Department are required for any additional materials, or quantities beyond those noted above, to be imported from this source. If you have any questions, please contact me at (716) 851-7289.

Sincerely,



Steven Moeller, P.G.
Professional Geologist 1

SM/slr

ec: Stanley Radon, NYSDEC
James Sullivan, NYSDOH
Lindsay Mairs, AFCEC
Tom Heins, USACE
Dennis Powers, USACE Arcadis



Department of
Environmental
Conservation

**NYDEC Topsoil Approval
Request Submittal**



**NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that passes a size 100 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Location where fill was obtained:

Identification of any state or local approvals as a fill source:

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

The information provided on this form is accurate and complete.

Signature

Date

Print Name

Firm

NFARS Backfill Topsoil Results (Shelby Crushed Stone)		
Constituent	Result	NYSDEC Unrestricted Use
PFAS Chemicals (µg/kg)		
Perfluorooctanoic acid	0.19 J	0.88
Perfluorononanoic acid	0.083 J	0.88
Perfluorooctanesulfonic acid	0.2	0.88
Metals (mg/kg)		
Arsenic	5.1	13
Barium	76	350
Beryllium	0.61	7.2
Cadmium	0.23	2.5
Copper	9.6	50
Lead	19	63
Manganese	610	1600
Mercury	0.029 J	0.18
Nickel	15	30
Selenium	0.30 J	3.9
Silver	0.063 J	2
Zinc	78	109
Chromium, Trivalent	17	30
SVOCS (mg/kg)		
Benzo[a]anthracene	0.0074 J	1
Benzo[a]pyrene	0.018 J	1
Benzo[b]fluoranthene	0.021 J	1
Chrysene	0.019	1
Fluoranthene	0.019	100
Phenanthrene	0.011 J	100
Pyrene	0.016 J	100

Notes:

Yellow cells indicate exceedence of unrestricted use criteria

Red cells indicate exceedence of residential use criteria

NYSDEC= New York State Department of Environmental Conservation

SVOCS= Semivolatile Organic Compounds

PFAS= Per- and Polyfluoroalkyl Substances

(µg/kg)= micrograms per kilogram

(mg/kg)= milligrams per kilogram

J= estimated value



ANALYTICAL REPORT

PREPARED FOR

Attn: Nick Wyckoff

Tidewater Inc.

3761 Attucks Drive

Powell, Ohio 43065

Generated 4/9/2024 4:39:54 PM

JOB DESCRIPTION

Niagara Falls ARS Shelby Crushed Stone

JOB NUMBER

410-164456-1

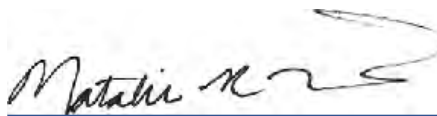
Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
4/9/2024 4:39:54 PM

Authorized for release by
Natalie Luciano, Principal Project Manager
Natalie.Luciano@et.eurofinsus.com
(717)556-7258

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

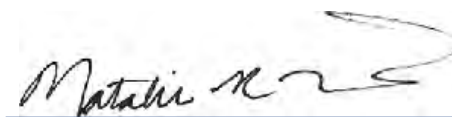


Table of Contents

Cover Page 1

Table of Contents 4

Definitions/Glossary 5

Case Narrative 7

Detection Summary 9

Client Sample Results 10

Surrogate Summary 14

QC Sample Results 16

QC Association Summary 28

Lab Chronicle 31

Certification Summary 32

Method Summary 33

Sample Summary 34

Chain of Custody 35

Receipt Checklists 47



Definitions/Glossary

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	See Case Narrative
D	The reported value is from a dilution.
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
*	See Case Narrative
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
*	See Case Narrative
D	The reported value is from a dilution.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)

Definitions/Glossary

Client: Tidewater Inc.

Job ID: 410-164456-1

Project/Site: Niagara Falls ARS Shelby Crushed Stone

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tidewater Inc.
Project: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Job ID: 410-164456-1

Eurofins Lancaster Laboratories Environment

Job Narrative 410-164456-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 3/19/2024 10:55 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received. The COC is missing Sample State, Sample Preservation. This does not meet regulatory requirements.

The container count for the following sample did not match what was listed on the Chain-of-Custody (COC): Nfarsfill-SCS (410-164456-1).

The laboratory received 6 total containers, while the COC lists 3 total containers.

The following sample was activated by the client on March 25, 2024: Nfarsfill-SCS (410-164456-1).

GC/MS VOA

Method 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 410-487288 recovered above the upper control limit for Acetone. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260D_DOD5: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: Nfarsfill-SCS (410-164456-1). Elevated reporting limits (RLs) are provided.

Method 8260D_DOD5: Surrogate recovery for the method blank was outside DOD recovery criteria on analytical batch 410-487288 for 4-Bromofluorobenzene (Surr). The blank did not contain any target analytes, therefore data has been reported for the associated samples.

Method 8260D_DOD5: The continuing calibration verification (CCV) associated with batch 410-487288 recovered above the upper control limit for 4-Bromofluorobenzene (Surr). The data has been reported for the associated samples.

Method 8260D_DOD5: Surrogate recovery for the following sample was outside control limits: Nfarsfill-SCS (410-164456-1). Re-extraction and/or re-analysis was performed and surrogate recovery was outside control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs

Method 8082A_DOD5: The continuing calibration verification (CCV) associated with batch 410-490430 recovered outside acceptance criteria, low biased, for PCB-1016 on one column. Results are reported from the passing column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Lancaster Laboratories Environment Testing, LLC

Case Narrative

Client: Tidewater Inc.
Project: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Job ID: 410-164456-1 (Continued)

Eurofins Lancaster Laboratories Environment

Pesticides

Method 8081B_DOD5: The Tetrachloro-m-xylene (Surr) surrogate recovery in the laboratory control sample (LCS) is outside lower control limits. The sample is non-detect, therefore the data is reported. Nfarsfill-SCS (410-164456-1).

Method 8081B_DOD5: The laboratory control sample (LCS) for preparation batch 410-489257 and analytical batch 410-489412 recovered outside control limits for the following analytes: Endosulfan II, Endosulfan sulfate and 4,4'-DDD. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 7196A_DOD5: The following sample was diluted due to the nature of the sample matrix: Nfarsfill-SCS (410-164456-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Client Sample ID: Nfarsfill-SCS

Lab Sample ID: 410-164456-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	7.4	J M	19	16	3.9	ug/Kg	1	✱	8270E	Total/NA
Benzo[a]pyrene	18	J	19	7.8	3.9	ug/Kg	1	✱	8270E	Total/NA
Benzo[b]fluoranthene	21	M	19	7.8	3.9	ug/Kg	1	✱	8270E	Total/NA
Chrysene	19	M	19	7.8	3.9	ug/Kg	1	✱	8270E	Total/NA
Fluoranthene	19		19	7.8	3.9	ug/Kg	1	✱	8270E	Total/NA
Phenanthrene	11	J	19	9.3	4.7	ug/Kg	1	✱	8270E	Total/NA
Pyrene	16	J	19	7.8	3.9	ug/Kg	1	✱	8270E	Total/NA
Arsenic	5.1	D	0.35	0.28	0.12	mg/Kg	2	✱	6020B	Total/NA
Barium	76	D	0.35	0.32	0.16	mg/Kg	2	✱	6020B	Total/NA
Beryllium	0.61	D	0.088	0.044	0.021	mg/Kg	2	✱	6020B	Total/NA
Cadmium	0.23	D	0.088	0.070	0.035	mg/Kg	2	✱	6020B	Total/NA
Chromium	17	D	0.35	0.33	0.17	mg/Kg	2	✱	6020B	Total/NA
Copper	9.6	D	0.35	0.32	0.16	mg/Kg	2	✱	6020B	Total/NA
Lead	19	D	0.18	0.14	0.067	mg/Kg	2	✱	6020B	Total/NA
Manganese	610	D	0.44	0.35	0.18	mg/Kg	2	✱	6020B	Total/NA
Nickel	15	D	0.35	0.33	0.17	mg/Kg	2	✱	6020B	Total/NA
Selenium	0.30	J D	0.35	0.18	0.088	mg/Kg	2	✱	6020B	Total/NA
Silver	0.063	J D	0.088	0.070	0.035	mg/Kg	2	✱	6020B	Total/NA
Zinc	78	D	26	7.0	3.5	mg/Kg	2	✱	6020B	Total/NA
Mercury	0.029	J	0.068	0.045	0.023	mg/Kg	1	✱	7471B	Total/NA
Cr (III)	17		0.011	0.0075	0.0035	mg/Kg	1	✱	7196A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Client Sample ID: Nfarsfill-SCS

Lab Sample ID: 410-164456-1

Date Collected: 03/18/24 11:30

Matrix: Solid

Date Received: 03/19/24 10:55

Percent Solids: 85.3

Method: SW846 8260D - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1-Trichloroethane	160	U *	400	160	48	ug/Kg	☼	03/26/24 22:42	50
1,1-Dichloroethane	160	U *	400	160	40	ug/Kg	☼	03/26/24 22:42	50
1,1-Dichloroethene	160	U *	400	160	40	ug/Kg	☼	03/26/24 22:42	50
Trimethylbenzene, 1,2,4-	160	U *	400	160	40	ug/Kg	☼	03/26/24 22:42	50
1,2-Dichlorobenzene	160	U *	400	160	40	ug/Kg	☼	03/26/24 22:42	50
1,2-Dichloroethane	160	U *	400	160	48	ug/Kg	☼	03/26/24 22:42	50
Trimethylbenzene, 1,3,5-	160	U *	400	160	40	ug/Kg	☼	03/26/24 22:42	50
1,3-Dichlorobenzene	160	U *	400	160	40	ug/Kg	☼	03/26/24 22:42	50
1,4-Dichlorobenzene	81	U *	400	81	32	ug/Kg	☼	03/26/24 22:42	50
1,4-Dioxane	8100	U *	20000	8100	3000	ug/Kg	☼	03/26/24 22:42	50
Methyl Ethyl Ketone	320	U *	810	320	160	ug/Kg	☼	03/26/24 22:42	50
Acetone	1300	U Q *	1600	1300	480	ug/Kg	☼	03/26/24 22:42	50
Benzene	160	U *	400	160	40	ug/Kg	☼	03/26/24 22:42	50
Carbon tetrachloride	320	U *	400	320	160	ug/Kg	☼	03/26/24 22:42	50
Chlorobenzene	160	U *	400	160	40	ug/Kg	☼	03/26/24 22:42	50
Chloroform	160	U *	400	160	48	ug/Kg	☼	03/26/24 22:42	50
1,2-Dichloroethene, cis-	160	U *	400	160	40	ug/Kg	☼	03/26/24 22:42	50
Ethylbenzene	81	U *	400	81	32	ug/Kg	☼	03/26/24 22:42	50
Methyl tert-butyl ether	160	U *	400	160	40	ug/Kg	☼	03/26/24 22:42	50
Methylene Chloride	320	U *	400	320	160	ug/Kg	☼	03/26/24 22:42	50
Propylbenzene, n-	81	U *	400	81	32	ug/Kg	☼	03/26/24 22:42	50
sec-Butylbenzene	320	U *	400	320	160	ug/Kg	☼	03/26/24 22:42	50
tert-Butylbenzene	160	U *	400	160	81	ug/Kg	☼	03/26/24 22:42	50
Tetrachloroethene	160	U *	400	160	40	ug/Kg	☼	03/26/24 22:42	50
Toluene	160	U *	400	160	48	ug/Kg	☼	03/26/24 22:42	50
1,2-Dichloroethene, trans-	160	U *	400	160	40	ug/Kg	☼	03/26/24 22:42	50
Trichloroethene	160	U *	400	160	40	ug/Kg	☼	03/26/24 22:42	50
Vinyl chloride	160	U *	400	160	48	ug/Kg	☼	03/26/24 22:42	50
Xylenes, Total	160	U *	810	160	110	ug/Kg	☼	03/26/24 22:42	50
Butylbenzene	400	U *	650	400	240	ug/Kg	☼	03/26/24 22:42	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88	*	71 - 136	03/19/24 19:37	03/26/24 22:42	50
4-Bromofluorobenzene (Surr)	81	Q *	79 - 119	03/19/24 19:37	03/26/24 22:42	50
Dibromofluoromethane (Surr)	84	*	78 - 119	03/19/24 19:37	03/26/24 22:42	50
Toluene-d8 (Surr)	81	Q *	85 - 116	03/19/24 19:37	03/26/24 22:42	50

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1-Trichloroethane	160	U *	400	160	48	ug/Kg	☼	03/27/24 23:40	50
1,1-Dichloroethane	160	U *	400	160	40	ug/Kg	☼	03/27/24 23:40	50
1,1-Dichloroethene	160	U *	400	160	40	ug/Kg	☼	03/27/24 23:40	50
Trimethylbenzene, 1,2,4-	160	U *	400	160	40	ug/Kg	☼	03/27/24 23:40	50
1,2-Dichlorobenzene	160	U *	400	160	40	ug/Kg	☼	03/27/24 23:40	50
1,2-Dichloroethane	160	U *	400	160	48	ug/Kg	☼	03/27/24 23:40	50
Trimethylbenzene, 1,3,5-	160	U *	400	160	40	ug/Kg	☼	03/27/24 23:40	50
1,3-Dichlorobenzene	160	U *	400	160	40	ug/Kg	☼	03/27/24 23:40	50
1,4-Dichlorobenzene	81	U *	400	81	32	ug/Kg	☼	03/27/24 23:40	50
1,4-Dioxane	8100	U *	20000	8100	3000	ug/Kg	☼	03/27/24 23:40	50
Methyl Ethyl Ketone	320	U *	810	320	160	ug/Kg	☼	03/27/24 23:40	50

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Client Sample ID: Nfarsfill-SCS

Lab Sample ID: 410-164456-1

Date Collected: 03/18/24 11:30

Matrix: Solid

Date Received: 03/19/24 10:55

Percent Solids: 85.3

Method: SW846 8260D - Volatile Organic Compounds (GC/MS) - RA (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acetone	1300	U *	1600	1300	480	ug/Kg	☼	03/27/24 23:40	50
Benzene	160	U *	400	160	40	ug/Kg	☼	03/27/24 23:40	50
Carbon tetrachloride	320	U *	400	320	160	ug/Kg	☼	03/27/24 23:40	50
Chlorobenzene	160	U *	400	160	40	ug/Kg	☼	03/27/24 23:40	50
Chloroform	160	U *	400	160	48	ug/Kg	☼	03/27/24 23:40	50
1,2-Dichloroethene, cis-	160	U *	400	160	40	ug/Kg	☼	03/27/24 23:40	50
Ethylbenzene	81	U *	400	81	32	ug/Kg	☼	03/27/24 23:40	50
Methyl tert-butyl ether	160	U *	400	160	40	ug/Kg	☼	03/27/24 23:40	50
Methylene Chloride	320	U *	400	320	160	ug/Kg	☼	03/27/24 23:40	50
Propylbenzene, n-	81	U *	400	81	32	ug/Kg	☼	03/27/24 23:40	50
sec-Butylbenzene	320	U *	400	320	160	ug/Kg	☼	03/27/24 23:40	50
tert-Butylbenzene	160	U *	400	160	81	ug/Kg	☼	03/27/24 23:40	50
Tetrachloroethene	160	U *	400	160	40	ug/Kg	☼	03/27/24 23:40	50
Toluene	160	U *	400	160	48	ug/Kg	☼	03/27/24 23:40	50
1,2-Dichloroethene, trans-	160	U *	400	160	40	ug/Kg	☼	03/27/24 23:40	50
Trichloroethene	160	U *	400	160	40	ug/Kg	☼	03/27/24 23:40	50
Vinyl chloride	160	U *	400	160	48	ug/Kg	☼	03/27/24 23:40	50
Xylenes, Total	160	U *	810	160	110	ug/Kg	☼	03/27/24 23:40	50
Butylbenzene	400	U *	650	400	240	ug/Kg	☼	03/27/24 23:40	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85	*	71 - 136	03/19/24 19:37	03/27/24 23:40	50
4-Bromofluorobenzene (Surr)	79	Q *	79 - 119	03/19/24 19:37	03/27/24 23:40	50
Dibromofluoromethane (Surr)	81	*	78 - 119	03/19/24 19:37	03/27/24 23:40	50
Toluene-d8 (Surr)	76	Q *	85 - 116	03/19/24 19:37	03/27/24 23:40	50

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acenaphthene	7.8	U M	19	7.8	3.9	ug/Kg	☼	03/27/24 13:28	1
Acenaphthylene	9.3	U	19	9.3	4.7	ug/Kg	☼	03/27/24 13:28	1
Anthracene	7.8	U	19	7.8	3.9	ug/Kg	☼	03/27/24 13:28	1
Benzo[a]anthracene	7.4	J M	19	16	3.9	ug/Kg	☼	03/27/24 13:28	1
Benzo[a]pyrene	18	J	19	7.8	3.9	ug/Kg	☼	03/27/24 13:28	1
Benzo[b]fluoranthene	21	M	19	7.8	3.9	ug/Kg	☼	03/27/24 13:28	1
Benzo[g,h,i]perylene	7.8	U M	19	7.8	3.9	ug/Kg	☼	03/27/24 13:28	1
Benzo[k]fluoranthene	7.8	U M	19	7.8	3.9	ug/Kg	☼	03/27/24 13:28	1
Chrysene	19	M	19	7.8	3.9	ug/Kg	☼	03/27/24 13:28	1
Dibenz(a,h)anthracene	16	U M	19	16	7.8	ug/Kg	☼	03/27/24 13:28	1
Dibenzofuran	39	U	43	39	19	ug/Kg	☼	03/27/24 13:28	1
Fluoranthene	19		19	7.8	3.9	ug/Kg	☼	03/27/24 13:28	1
Fluorene	7.8	U M	19	7.8	3.9	ug/Kg	☼	03/27/24 13:28	1
Hexachlorobenzene	16	U M	19	16	7.8	ug/Kg	☼	03/27/24 13:28	1
Indeno[1,2,3-cd]pyrene	9.3	U M	19	9.3	4.7	ug/Kg	☼	03/27/24 13:28	1
m & p-Cresol	39	U	58	39	19	ug/Kg	☼	03/27/24 13:28	1
Naphthalene	16	U	19	16	7.8	ug/Kg	☼	03/27/24 13:28	1
o-Cresol	47	U	58	47	23	ug/Kg	☼	03/27/24 13:28	1
Pentachlorophenol	160	U	190	160	78	ug/Kg	☼	03/27/24 13:28	1
Phenanthrene	11	J	19	9.3	4.7	ug/Kg	☼	03/27/24 13:28	1
Phenol	39	U M	43	39	19	ug/Kg	☼	03/27/24 13:28	1
Pyrene	16	J	19	7.8	3.9	ug/Kg	☼	03/27/24 13:28	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Client Sample ID: Nfarsfill-SCS

Lab Sample ID: 410-164456-1

Date Collected: 03/18/24 11:30

Matrix: Solid

Date Received: 03/19/24 10:55

Percent Solids: 85.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	98		39 - 132	03/26/24 16:15	03/27/24 13:28	1
2-Fluorobiphenyl (Surr)	86		44 - 115	03/26/24 16:15	03/27/24 13:28	1
2-Fluorophenol (Surr)	79		35 - 115	03/26/24 16:15	03/27/24 13:28	1
Nitrobenzene-d5 (Surr)	81		37 - 122	03/26/24 16:15	03/27/24 13:28	1
Phenol-d5 (Surr)	83		33 - 122	03/26/24 16:15	03/27/24 13:28	1
p-Terphenyl-d14 (Surr)	95		54 - 127	03/26/24 16:15	03/27/24 13:28	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Aldrin (1C)	0.84	U	0.97	0.84	0.42	ug/Kg	☼	04/02/24 07:14	1
alpha-BHC (1C)	0.89	U	0.97	0.89	0.44	ug/Kg	☼	04/02/24 07:14	1
Chlordane (.alpha.) (1C)	0.70	U	0.97	0.70	0.20	ug/Kg	☼	04/02/24 07:14	1
beta-BHC (1C)	1.1	U	1.2	1.1	0.51	ug/Kg	☼	04/02/24 07:14	1
delta-BHC (1C)	1.1	U	1.2	1.1	0.53	ug/Kg	☼	04/02/24 07:14	1
Dieldrin (1C)	1.4	U	2.0	1.4	0.39	ug/Kg	☼	04/02/24 07:14	1
Endosulfan I (1C)	0.70	U	0.97	0.70	0.26	ug/Kg	☼	04/02/24 07:14	1
Endosulfan II (1C)	2.6	U Q *	2.7	2.6	1.3	ug/Kg	☼	04/02/24 07:14	1
Endosulfan sulfate (1C)	1.4	U Q *	2.0	1.4	0.39	ug/Kg	☼	04/02/24 07:14	1
Endrin (1C)	1.4	U	2.0	1.4	0.80	ug/Kg	☼	04/02/24 07:14	1
Lindane (2C)	0.70	U Q	0.97	0.70	0.25	ug/Kg	☼	04/02/24 07:14	1
Heptachlor (1C)	0.72	U	0.97	0.72	0.36	ug/Kg	☼	04/02/24 07:14	1
4,4'-DDD (1C)	1.9	U Q *	2.0	1.9	0.94	ug/Kg	☼	04/02/24 07:14	1
4,4'-DDE (1C)	1.6	U	2.0	1.6	0.82	ug/Kg	☼	04/02/24 07:14	1
4,4'-DDT (1C)	1.4	U	2.0	1.4	0.92	ug/Kg	☼	04/02/24 07:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (2C)	91		46 - 152	04/01/24 15:35	04/02/24 07:14	1
Tetrachloro-m-xylene (Surr) (1C)	88	*	42 - 129	04/01/24 15:35	04/02/24 07:14	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
PCB-1221 (1C)	13	U	20	13	6.2	ug/Kg	☼	04/04/24 04:43	1
PCB-1232 (1C)	13	U	20	13	6.2	ug/Kg	☼	04/04/24 04:43	1
PCB-1242 (1C)	13	U	20	13	6.2	ug/Kg	☼	04/04/24 04:43	1
PCB-1248 (1C)	13	U	20	13	6.2	ug/Kg	☼	04/04/24 04:43	1
PCB-1254 (1C)	13	U M	20	13	7.5	ug/Kg	☼	04/04/24 04:43	1
PCB-1260 (1C)	13	U M	20	13	7.5	ug/Kg	☼	04/04/24 04:43	1
PCB-1262 (1C)	13	U M	20	13	7.5	ug/Kg	☼	04/04/24 04:43	1
PCB-1268 (1C)	13	U M	20	13	7.5	ug/Kg	☼	04/04/24 04:43	1
PCB-1016 (1C)	13	U *	20	13	6.2	ug/Kg	☼	04/04/24 04:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (1C)	86		66 - 130	04/01/24 15:40	04/04/24 04:43	1
DCB Decachlorobiphenyl (Surr) (2C)	70		66 - 130	04/01/24 15:40	04/04/24 04:43	1
Tetrachloro-m-xylene (1C)	93		44 - 130	04/01/24 15:40	04/04/24 04:43	1
Tetrachloro-m-xylene (2C)	58		44 - 130	04/01/24 15:40	04/04/24 04:43	1

Method: SW846 8151A DOD - Herbicides (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	1.7	U	2.0	1.7	0.87	ug/Kg	☼	03/28/24 11:19	1

Client Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Client Sample ID: Nfarsfill-SCS

Lab Sample ID: 410-164456-1

Date Collected: 03/18/24 11:30

Matrix: Solid

Date Received: 03/19/24 10:55

Percent Solids: 85.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr) (1C)	52		27 - 122	03/27/24 00:50	03/28/24 11:19	1
2,4-Dichlorophenylacetic acid (Surr) (2C)	44		27 - 122	03/27/24 00:50	03/28/24 11:19	1

Method: TAL SOP PCB - Total PCB Calculation

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
PCB-1016	13	U	20	13	6.2	ug/Kg	✱	04/04/24 04:43	1
PCB-1221	13	U	20	13	6.2	ug/Kg	✱	04/04/24 04:43	1
PCB-1232	13	U	20	13	6.2	ug/Kg	✱	04/04/24 04:43	1
PCB-1242	13	U	20	13	6.2	ug/Kg	✱	04/04/24 04:43	1
PCB-1248	13	U	20	13	6.2	ug/Kg	✱	04/04/24 04:43	1
PCB-1254	13	U M	20	13	7.5	ug/Kg	✱	04/04/24 04:43	1
PCB-1260	13	U M	20	13	7.5	ug/Kg	✱	04/04/24 04:43	1
PCB-1262	13	U M	20	13	7.5	ug/Kg	✱	04/04/24 04:43	1
PCB-1268	13	U M	20	13	7.5	ug/Kg	✱	04/04/24 04:43	1
Polychlorinated biphenyls, Total	13	U	20	13	7.5	ug/Kg		04/04/24 04:43	1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	5.1	D	0.35	0.28	0.12	mg/Kg	✱	03/21/24 10:17	2
Barium	76	D	0.35	0.32	0.16	mg/Kg	✱	03/21/24 10:17	2
Beryllium	0.61	D	0.088	0.044	0.021	mg/Kg	✱	03/21/24 10:17	2
Cadmium	0.23	D	0.088	0.070	0.035	mg/Kg	✱	03/21/24 10:17	2
Chromium	17	D	0.35	0.33	0.17	mg/Kg	✱	03/21/24 10:17	2
Copper	9.6	D	0.35	0.32	0.16	mg/Kg	✱	03/21/24 10:17	2
Lead	19	D	0.18	0.14	0.067	mg/Kg	✱	03/21/24 10:17	2
Manganese	610	D	0.44	0.35	0.18	mg/Kg	✱	03/21/24 10:17	2
Nickel	15	D	0.35	0.33	0.17	mg/Kg	✱	03/21/24 10:17	2
Selenium	0.30	J D	0.35	0.18	0.088	mg/Kg	✱	03/21/24 10:17	2
Silver	0.063	J D	0.088	0.070	0.035	mg/Kg	✱	03/21/24 10:17	2
Zinc	78	D	26	7.0	3.5	mg/Kg	✱	03/21/24 10:17	2

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Mercury	0.029	J	0.068	0.045	0.023	mg/Kg	✱	04/05/24 11:10	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chromium, hexavalent (SW846 7196A)	1.8	U *	2.5	1.8	0.83	mg/Kg	✱	04/05/24 01:26	5
Cr (III) (SW846 7196A)	17		0.011	0.0075	0.0035	mg/Kg	✱	03/26/24 08:13	1
Cyanide, Total (SW846 9012B)	0.48	U	0.54	0.48	0.19	mg/Kg	✱	03/28/24 16:08	1
Percent Moisture (EPA Moisture)	14.7		1.0		1.0	%		03/19/24 12:48	1

Surrogate Summary

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Method: 8260D - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (71-136)	BFB (79-119)	DBFM (78-119)	TOL (85-116)
410-164456-1	Nfarsfill-SCS	88 *	81 Q *	84 *	81 Q *
410-164456-1 - RA	Nfarsfill-SCS	85 *	79 Q *	81 *	76 Q *
LCS 410-487288/6	Lab Control Sample	101	129 Q *	103	101
LCS 410-487842/6	Lab Control Sample	99	128 Q	102	98
LCSD 410-487288/8	Lab Control Sample Dup	97	124 Q *	101	97
LCSD 410-487842/8	Lab Control Sample Dup	94	122 Q	99	94
MB 410-487288/7	Method Blank	102	121 Q *	101	99
MB 410-487842/7	Method Blank	102	119	101	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBP (39-132)	FBP (44-115)	2FP (35-115)	NBZ (37-122)	PHL (33-122)	TPHd14 (54-127)
410-164456-1	Nfarsfill-SCS	98	86	79	81	83	95
LCS 410-487240/2-A	Lab Control Sample	109	92	93	90	97	103
MB 410-487240/1-A	Method Blank	112	90	86	86	89	108

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB2 (46-152)	TCX1 (42-129)
410-164456-1	Nfarsfill-SCS	91	88 *

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB1 (46-152)	TCX2 (42-129)
LCS 410-489257/2-A	Lab Control Sample	120	37 Q

Eurofins Lancaster Laboratories Environment Testing, LLC

Surrogate Summary

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB2 (46-152)	TCX2 (42-129)						
MB 410-489257/1-A	Method Blank	80	49						

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB1 (66-130)	DCB2 (66-130)	TCX1 (44-130)	TCX2 (44-130)				
410-164456-1	Nfarsfill-SCS	86	70	93	58				
LCS 410-489277/2-A	Lab Control Sample		101		89				
MB 410-489277/1-A	Method Blank		80		71				

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 8151A DOD - Herbicides (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCPAA1 (27-122)	DCPAA2 (27-122)						
410-164456-1	Nfarsfill-SCS	52	44						
LCS 410-487927/2-A	Lab Control Sample	72	66						
MB 410-487927/1-A	Method Blank	74	73						

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid (Surr)

QC Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Method: 8260D - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-487288/7

Matrix: Solid

Analysis Batch: 487288

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1-Trichloroethane	100	U	250	100	30	ug/Kg		03/26/24 18:54	50
1,1-Dichloroethane	100	U	250	100	25	ug/Kg		03/26/24 18:54	50
1,1-Dichloroethene	100	U	250	100	25	ug/Kg		03/26/24 18:54	50
Trimethylbenzene, 1,2,4-	100	U M	250	100	25	ug/Kg		03/26/24 18:54	50
1,2-Dichlorobenzene	100	U M	250	100	25	ug/Kg		03/26/24 18:54	50
1,2-Dichloroethane	100	U	250	100	30	ug/Kg		03/26/24 18:54	50
Trimethylbenzene, 1,3,5-	100	U M	250	100	25	ug/Kg		03/26/24 18:54	50
1,3-Dichlorobenzene	100	U	250	100	25	ug/Kg		03/26/24 18:54	50
1,4-Dichlorobenzene	50	U M	250	50	20	ug/Kg		03/26/24 18:54	50
1,4-Dioxane	5000	U	13000	5000	1900	ug/Kg		03/26/24 18:54	50
Methyl Ethyl Ketone	200	U M	500	200	100	ug/Kg		03/26/24 18:54	50
Acetone	800	U	1000	800	300	ug/Kg		03/26/24 18:54	50
Benzene	100	U	250	100	25	ug/Kg		03/26/24 18:54	50
Carbon tetrachloride	200	U	250	200	100	ug/Kg		03/26/24 18:54	50
Chlorobenzene	100	U M	250	100	25	ug/Kg		03/26/24 18:54	50
Chloroform	100	U M	250	100	30	ug/Kg		03/26/24 18:54	50
1,2-Dichloroethene, cis-	100	U	250	100	25	ug/Kg		03/26/24 18:54	50
Ethylbenzene	50	U M	250	50	20	ug/Kg		03/26/24 18:54	50
Methyl tert-butyl ether	100	U	250	100	25	ug/Kg		03/26/24 18:54	50
Methylene Chloride	200	U	250	200	100	ug/Kg		03/26/24 18:54	50
Propylbenzene, n-	50	U M	250	50	20	ug/Kg		03/26/24 18:54	50
sec-Butylbenzene	200	U M	250	200	100	ug/Kg		03/26/24 18:54	50
tert-Butylbenzene	100	U	250	100	50	ug/Kg		03/26/24 18:54	50
Tetrachloroethene	100	U	250	100	25	ug/Kg		03/26/24 18:54	50
Toluene	100	U	250	100	30	ug/Kg		03/26/24 18:54	50
1,2-Dichloroethene, trans-	100	U	250	100	25	ug/Kg		03/26/24 18:54	50
Trichloroethene	100	U	250	100	25	ug/Kg		03/26/24 18:54	50
Vinyl chloride	100	U	250	100	30	ug/Kg		03/26/24 18:54	50
Xylenes, Total	100	U	500	100	70	ug/Kg		03/26/24 18:54	50
Butylbenzene	250	U M	400	250	150	ug/Kg		03/26/24 18:54	50

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		71 - 136		03/26/24 18:54	50
4-Bromofluorobenzene (Surr)	121	Q *	79 - 119		03/26/24 18:54	50
Dibromofluoromethane (Surr)	101		78 - 119		03/26/24 18:54	50
Toluene-d8 (Surr)	99		85 - 116		03/26/24 18:54	50

Lab Sample ID: LCS 410-487288/6

Matrix: Solid

Analysis Batch: 487288

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	1000	1010	D	ug/Kg		101	73 - 130
1,1-Dichloroethane	1000	975	D	ug/Kg		98	76 - 125
1,1-Dichloroethene	1000	982	D	ug/Kg		98	70 - 131
Trimethylbenzene, 1,2,4-	1000	946	D	ug/Kg		95	75 - 123
1,2-Dichlorobenzene	1000	965	D	ug/Kg		96	78 - 121
1,2-Dichloroethane	1000	1010	D	ug/Kg		101	73 - 128

Euofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-487288/6

Matrix: Solid

Analysis Batch: 487288

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trimethylbenzene, 1,3,5-	1000	970	D	ug/Kg		97	73 - 124
1,3-Dichlorobenzene	1000	965	D	ug/Kg		97	77 - 121
1,4-Dichlorobenzene	1000	1020	D	ug/Kg		102	75 - 120
1,4-Dioxane	25000	23000	D	ug/Kg		92	55 - 138
Methyl Ethyl Ketone	12500	12700	D	ug/Kg		102	51 - 148
Acetone	12500	14200	D	ug/Kg		114	36 - 164
Benzene	1000	982	D	ug/Kg		98	77 - 121
Carbon tetrachloride	1000	1050	D	ug/Kg		105	70 - 135
Chlorobenzene	1000	956	D	ug/Kg		96	79 - 120
Chloroform	1000	1020	D	ug/Kg		102	78 - 123
1,2-Dichloroethene, cis-	1000	1010	D	ug/Kg		101	77 - 123
Ethylbenzene	1000	974	D	ug/Kg		97	76 - 122
Methyl tert-butyl ether	1000	971	D	ug/Kg		97	73 - 125
Methylene Chloride	1000	984	D	ug/Kg		98	70 - 128
Propylbenzene, n-	1000	1010	D	ug/Kg		101	73 - 125
sec-Butylbenzene	1000	959	D	ug/Kg		96	73 - 126
tert-Butylbenzene	1000	992	D	ug/Kg		99	73 - 125
Tetrachloroethene	1000	968	D	ug/Kg		97	73 - 128
Toluene	1000	960	D	ug/Kg		96	77 - 121
1,2-Dichloroethene, trans-	1000	989	D	ug/Kg		99	74 - 125
Trichloroethene	1000	977	D	ug/Kg		98	77 - 123
Vinyl chloride	1000	985	D	ug/Kg		99	56 - 135
Xylenes, Total	3000	2870	D	ug/Kg		96	78 - 124
Butylbenzene	1000	944	D	ug/Kg		94	70 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		71 - 136
4-Bromofluorobenzene (Surr)	129	Q *	79 - 119
Dibromofluoromethane (Surr)	103		78 - 119
Toluene-d8 (Surr)	101		85 - 116

Lab Sample ID: LCSD 410-487288/8

Matrix: Solid

Analysis Batch: 487288

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	1000	992	D	ug/Kg		99	73 - 130	2	20
1,1-Dichloroethane	1000	937	D	ug/Kg		94	76 - 125	4	20
1,1-Dichloroethene	1000	962	D	ug/Kg		96	70 - 131	2	20
Trimethylbenzene, 1,2,4-	1000	901	D	ug/Kg		90	75 - 123	5	20
1,2-Dichlorobenzene	1000	907	D	ug/Kg		91	78 - 121	6	20
1,2-Dichloroethane	1000	989	D	ug/Kg		99	73 - 128	2	20
Trimethylbenzene, 1,3,5-	1000	931	D	ug/Kg		93	73 - 124	4	20
1,3-Dichlorobenzene	1000	925	D	ug/Kg		92	77 - 121	4	20
1,4-Dichlorobenzene	1000	965	D	ug/Kg		96	75 - 120	5	20
1,4-Dioxane	25000	21800	D	ug/Kg		87	55 - 138	6	20
Methyl Ethyl Ketone	12500	12500	D	ug/Kg		100	51 - 148	2	20
Acetone	12500	13700	D	ug/Kg		109	36 - 164	4	20

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-487288/8

Matrix: Solid

Analysis Batch: 487288

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	1000	959	D	ug/Kg		96	77 - 121	2	20
Carbon tetrachloride	1000	1020	D	ug/Kg		102	70 - 135	2	20
Chlorobenzene	1000	920	D	ug/Kg		92	79 - 120	4	20
Chloroform	1000	981	D	ug/Kg		98	78 - 123	4	20
1,2-Dichloroethene, cis-	1000	985	D	ug/Kg		99	77 - 123	3	20
Ethylbenzene	1000	937	D	ug/Kg		94	76 - 122	4	20
Methyl tert-butyl ether	1000	940	D	ug/Kg		94	73 - 125	3	20
Methylene Chloride	1000	951	D	ug/Kg		95	70 - 128	3	20
Propylbenzene, n-	1000	967	D	ug/Kg		97	73 - 125	4	20
sec-Butylbenzene	1000	926	D	ug/Kg		93	73 - 126	3	20
tert-Butylbenzene	1000	934	D	ug/Kg		93	73 - 125	6	20
Tetrachloroethene	1000	929	D	ug/Kg		93	73 - 128	4	20
Toluene	1000	928	D	ug/Kg		93	77 - 121	3	20
1,2-Dichloroethene, trans-	1000	952	D	ug/Kg		95	74 - 125	4	20
Trichloroethene	1000	944	D	ug/Kg		94	77 - 123	3	20
Vinyl chloride	1000	957	D	ug/Kg		96	56 - 135	3	20
Xylenes, Total	3000	2770	D	ug/Kg		92	78 - 124	4	20
Butylbenzene	1000	907	D	ug/Kg		91	70 - 128	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		71 - 136
4-Bromofluorobenzene (Surr)	124	Q *	79 - 119
Dibromofluoromethane (Surr)	101		78 - 119
Toluene-d8 (Surr)	97		85 - 116

Lab Sample ID: MB 410-487842/7

Matrix: Solid

Analysis Batch: 487842

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1-Trichloroethane	100	U	250	100	30	ug/Kg		03/27/24 19:30	50
1,1,1-Dichloroethane	100	U	250	100	25	ug/Kg		03/27/24 19:30	50
1,1,1-Dichloroethene	100	U	250	100	25	ug/Kg		03/27/24 19:30	50
Trimethylbenzene, 1,2,4-	100	U M	250	100	25	ug/Kg		03/27/24 19:30	50
1,2-Dichlorobenzene	100	U M	250	100	25	ug/Kg		03/27/24 19:30	50
1,2-Dichloroethane	100	U	250	100	30	ug/Kg		03/27/24 19:30	50
Trimethylbenzene, 1,3,5-	100	U M	250	100	25	ug/Kg		03/27/24 19:30	50
1,3-Dichlorobenzene	100	U M	250	100	25	ug/Kg		03/27/24 19:30	50
1,4-Dichlorobenzene	50	U M	250	50	20	ug/Kg		03/27/24 19:30	50
1,4-Dioxane	5000	U	13000	5000	1900	ug/Kg		03/27/24 19:30	50
Methyl Ethyl Ketone	200	U M	500	200	100	ug/Kg		03/27/24 19:30	50
Acetone	800	U	1000	800	300	ug/Kg		03/27/24 19:30	50
Benzene	100	U	250	100	25	ug/Kg		03/27/24 19:30	50
Carbon tetrachloride	200	U	250	200	100	ug/Kg		03/27/24 19:30	50
Chlorobenzene	100	U	250	100	25	ug/Kg		03/27/24 19:30	50
Chloroform	100	U M	250	100	30	ug/Kg		03/27/24 19:30	50
1,2-Dichloroethene, cis-	100	U	250	100	25	ug/Kg		03/27/24 19:30	50
Ethylbenzene	50	U	250	50	20	ug/Kg		03/27/24 19:30	50

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-487842/7

Matrix: Solid

Analysis Batch: 487842

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methyl tert-butyl ether	100	U	250	100	25	ug/Kg		03/27/24 19:30	50
Methylene Chloride	200	U	250	200	100	ug/Kg		03/27/24 19:30	50
Propylbenzene, n-	50	U M	250	50	20	ug/Kg		03/27/24 19:30	50
sec-Butylbenzene	200	U M	250	200	100	ug/Kg		03/27/24 19:30	50
tert-Butylbenzene	100	U M	250	100	50	ug/Kg		03/27/24 19:30	50
Tetrachloroethene	100	U	250	100	25	ug/Kg		03/27/24 19:30	50
Toluene	100	U	250	100	30	ug/Kg		03/27/24 19:30	50
1,2-Dichloroethene, trans-	100	U	250	100	25	ug/Kg		03/27/24 19:30	50
Trichloroethene	100	U	250	100	25	ug/Kg		03/27/24 19:30	50
Vinyl chloride	100	U	250	100	30	ug/Kg		03/27/24 19:30	50
Xylenes, Total	100	U	500	100	70	ug/Kg		03/27/24 19:30	50
Butylbenzene	250	U M	400	250	150	ug/Kg		03/27/24 19:30	50

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		71 - 136		03/27/24 19:30	50
4-Bromofluorobenzene (Surr)	119		79 - 119		03/27/24 19:30	50
Dibromofluoromethane (Surr)	101		78 - 119		03/27/24 19:30	50
Toluene-d8 (Surr)	97		85 - 116		03/27/24 19:30	50

Lab Sample ID: LCS 410-487842/6

Matrix: Solid

Analysis Batch: 487842

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	1000	1020	D	ug/Kg		102	73 - 130
1,1-Dichloroethane	1000	961	D	ug/Kg		96	76 - 125
1,1-Dichloroethene	1000	966	D	ug/Kg		97	70 - 131
Trimethylbenzene, 1,2,4-	1000	927	D	ug/Kg		93	75 - 123
1,2-Dichlorobenzene	1000	954	D	ug/Kg		95	78 - 121
1,2-Dichloroethane	1000	1030	D	ug/Kg		103	73 - 128
Trimethylbenzene, 1,3,5-	1000	924	D	ug/Kg		92	73 - 124
1,3-Dichlorobenzene	1000	953	D	ug/Kg		95	77 - 121
1,4-Dichlorobenzene	1000	996	D	ug/Kg		100	75 - 120
1,4-Dioxane	25000	21000	D	ug/Kg		84	55 - 138
Methyl Ethyl Ketone	12500	11400	D	ug/Kg		91	51 - 148
Acetone	12500	14000	D	ug/Kg		112	36 - 164
Benzene	1000	973	D	ug/Kg		97	77 - 121
Carbon tetrachloride	1000	1080	D	ug/Kg		108	70 - 135
Chlorobenzene	1000	947	D	ug/Kg		95	79 - 120
Chloroform	1000	1010	D	ug/Kg		101	78 - 123
1,2-Dichloroethene, cis-	1000	1000	D	ug/Kg		100	77 - 123
Ethylbenzene	1000	957	D	ug/Kg		96	76 - 122
Methyl tert-butyl ether	1000	987	D	ug/Kg		99	73 - 125
Methylene Chloride	1000	983	D	ug/Kg		98	70 - 128
Propylbenzene, n-	1000	954	D	ug/Kg		95	73 - 125
sec-Butylbenzene	1000	928	D	ug/Kg		93	73 - 126
tert-Butylbenzene	1000	960	D	ug/Kg		96	73 - 125
Tetrachloroethene	1000	958	D	ug/Kg		96	73 - 128

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-487842/6

Matrix: Solid

Analysis Batch: 487842

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	1000	935	D	ug/Kg		94	77 - 121
1,2-Dichloroethene, trans-	1000	980	D	ug/Kg		98	74 - 125
Trichloroethene	1000	966	D	ug/Kg		97	77 - 123
Vinyl chloride	1000	933	D	ug/Kg		93	56 - 135
Xylenes, Total	3000	2830	D	ug/Kg		94	78 - 124
Butylbenzene	1000	920	D	ug/Kg		92	70 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		71 - 136
4-Bromofluorobenzene (Surr)	128	Q	79 - 119
Dibromofluoromethane (Surr)	102		78 - 119
Toluene-d8 (Surr)	98		85 - 116

Lab Sample ID: LCSD 410-487842/8

Matrix: Solid

Analysis Batch: 487842

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	1000	979	D	ug/Kg		98	73 - 130	5	20
1,1-Dichloroethane	1000	921	D	ug/Kg		92	76 - 125	4	20
1,1-Dichloroethene	1000	924	D	ug/Kg		92	70 - 131	4	20
Trimethylbenzene, 1,2,4-	1000	880	D	ug/Kg		88	75 - 123	5	20
1,2-Dichlorobenzene	1000	920	D	ug/Kg		92	78 - 121	4	20
1,2-Dichloroethane	1000	1010	D	ug/Kg		101	73 - 128	2	20
Trimethylbenzene, 1,3,5-	1000	902	D	ug/Kg		90	73 - 124	2	20
1,3-Dichlorobenzene	1000	910	D	ug/Kg		91	77 - 121	5	20
1,4-Dichlorobenzene	1000	962	D	ug/Kg		96	75 - 120	4	20
1,4-Dioxane	25000	22400	D	ug/Kg		90	55 - 138	7	20
Methyl Ethyl Ketone	12500	11800	D	ug/Kg		95	51 - 148	4	20
Acetone	12500	13000	D	ug/Kg		104	36 - 164	7	20
Benzene	1000	930	D	ug/Kg		93	77 - 121	5	20
Carbon tetrachloride	1000	1030	D	ug/Kg		103	70 - 135	5	20
Chlorobenzene	1000	888	D	ug/Kg		89	79 - 120	6	20
Chloroform	1000	971	D	ug/Kg		97	78 - 123	4	20
1,2-Dichloroethene, cis-	1000	970	D	ug/Kg		97	77 - 123	3	20
Ethylbenzene	1000	885	D	ug/Kg		89	76 - 122	8	20
Methyl tert-butyl ether	1000	935	D	ug/Kg		93	73 - 125	5	20
Methylene Chloride	1000	914	D	ug/Kg		91	70 - 128	7	20
Propylbenzene, n-	1000	949	D	ug/Kg		95	73 - 125	1	20
sec-Butylbenzene	1000	880	D	ug/Kg		88	73 - 126	5	20
tert-Butylbenzene	1000	924	D	ug/Kg		92	73 - 125	4	20
Tetrachloroethene	1000	909	D	ug/Kg		91	73 - 128	5	20
Toluene	1000	899	D	ug/Kg		90	77 - 121	4	20
1,2-Dichloroethene, trans-	1000	930	D	ug/Kg		93	74 - 125	5	20
Trichloroethene	1000	928	D	ug/Kg		93	77 - 123	4	20
Vinyl chloride	1000	899	D	ug/Kg		90	56 - 135	4	20
Xylenes, Total	3000	2640	D	ug/Kg		88	78 - 124	7	20
Butylbenzene	1000	872	D	ug/Kg		87	70 - 128	5	20

Euofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Method: 8260D - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-487842/8

Matrix: Solid

Analysis Batch: 487842

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	94		71 - 136
4-Bromofluorobenzene (Surr)	122	Q	79 - 119
Dibromofluoromethane (Surr)	99		78 - 119
Toluene-d8 (Surr)	94		85 - 116

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-487240/1-A

Matrix: Solid

Analysis Batch: 487525

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 487240

Analyte	MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	6.7	U	17	6.7	3.3	ug/Kg		03/27/24 10:20	1
Acenaphthylene	8.0	U	17	8.0	4.0	ug/Kg		03/27/24 10:20	1
Anthracene	6.7	U	17	6.7	3.3	ug/Kg		03/27/24 10:20	1
Benzo[a]anthracene	13	U	17	13	3.3	ug/Kg		03/27/24 10:20	1
Benzo[a]pyrene	6.7	U M	17	6.7	3.3	ug/Kg		03/27/24 10:20	1
Benzo[b]fluoranthene	6.7	U	17	6.7	3.3	ug/Kg		03/27/24 10:20	1
Benzo[g,h,i]perylene	6.7	U	17	6.7	3.3	ug/Kg		03/27/24 10:20	1
Benzo[k]fluoranthene	6.7	U	17	6.7	3.3	ug/Kg		03/27/24 10:20	1
Chrysene	6.7	U	17	6.7	3.3	ug/Kg		03/27/24 10:20	1
Dibenz(a,h)anthracene	13	U	17	13	6.7	ug/Kg		03/27/24 10:20	1
Dibenzofuran	33	U	37	33	17	ug/Kg		03/27/24 10:20	1
Fluoranthene	6.7	U	17	6.7	3.3	ug/Kg		03/27/24 10:20	1
Fluorene	6.7	U	17	6.7	3.3	ug/Kg		03/27/24 10:20	1
Hexachlorobenzene	13	U	17	13	6.7	ug/Kg		03/27/24 10:20	1
Indeno[1,2,3-cd]pyrene	8.0	U	17	8.0	4.0	ug/Kg		03/27/24 10:20	1
m & p-Cresol	33	U	50	33	17	ug/Kg		03/27/24 10:20	1
Naphthalene	13	U	17	13	6.7	ug/Kg		03/27/24 10:20	1
o-Cresol	40	U	50	40	20	ug/Kg		03/27/24 10:20	1
Pentachlorophenol	130	U	170	130	67	ug/Kg		03/27/24 10:20	1
Phenanthrene	8.0	U	17	8.0	4.0	ug/Kg		03/27/24 10:20	1
Phenol	33	U M	37	33	17	ug/Kg		03/27/24 10:20	1
Pyrene	6.7	U	17	6.7	3.3	ug/Kg		03/27/24 10:20	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	112		39 - 132	03/26/24 16:15	03/27/24 10:20	1
2-Fluorobiphenyl (Surr)	90		44 - 115	03/26/24 16:15	03/27/24 10:20	1
2-Fluorophenol (Surr)	86		35 - 115	03/26/24 16:15	03/27/24 10:20	1
Nitrobenzene-d5 (Surr)	86		37 - 122	03/26/24 16:15	03/27/24 10:20	1
Phenol-d5 (Surr)	89		33 - 122	03/26/24 16:15	03/27/24 10:20	1
p-Terphenyl-d14 (Surr)	108		54 - 127	03/26/24 16:15	03/27/24 10:20	1

QC Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-487240/2-A

Matrix: Solid

Analysis Batch: 487525

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 487240

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	1670	1500		ug/Kg		90	40 - 123
Acenaphthylene	1670	1580		ug/Kg		95	32 - 132
Anthracene	1670	1650		ug/Kg		99	47 - 123
Benzo[a]anthracene	1670	1640		ug/Kg		98	49 - 126
Benzo[a]pyrene	1670	1750		ug/Kg		105	45 - 129
Benzo[b]fluoranthene	1670	1620		ug/Kg		97	45 - 132
Benzo[g,h,i]perylene	1670	1730		ug/Kg		104	43 - 134
Benzo[k]fluoranthene	1670	1710		ug/Kg		103	47 - 132
Chrysene	1670	1650		ug/Kg		99	50 - 124
Dibenz(a,h)anthracene	1670	1730		ug/Kg		104	45 - 134
Dibenzofuran	1670	1540		ug/Kg		92	44 - 120
Fluoranthene	1670	1730		ug/Kg		104	50 - 127
Fluorene	1670	1550		ug/Kg		93	43 - 125
Hexachlorobenzene	1670	1750		ug/Kg		105	45 - 122
Indeno[1,2,3-cd]pyrene	1670	1730		ug/Kg		104	45 - 133
m & p-Cresol	1670	1510		ug/Kg		90	42 - 126
Naphthalene	1670	1500		ug/Kg		90	35 - 123
o-Cresol	1670	1650		ug/Kg		99	32 - 122
Pentachlorophenol	3330	2900		ug/Kg		87	25 - 133
Phenanthrene	1670	1610		ug/Kg		97	50 - 121
Phenol	1670	1670		ug/Kg		100	34 - 121
Pyrene	1670	1570		ug/Kg		94	47 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	109		39 - 132
2-Fluorobiphenyl (Surr)	92		44 - 115
2-Fluorophenol (Surr)	93		35 - 115
Nitrobenzene-d5 (Surr)	90		37 - 122
Phenol-d5 (Surr)	97		33 - 122
p-Terphenyl-d14 (Surr)	103		54 - 127

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 410-489257/1-A

Matrix: Solid

Analysis Batch: 489412

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 489257

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Aldrin (1C)	0.72	U	0.83	0.72	0.36	ug/Kg		04/02/24 03:27	1
alpha-BHC (1C)	0.76	U	0.83	0.76	0.38	ug/Kg		04/02/24 03:27	1
Chlordane (.alpha.) (1C)	0.60	U	0.83	0.60	0.17	ug/Kg		04/02/24 03:27	1
beta-BHC (1C)	0.90	U	1.0	0.90	0.44	ug/Kg		04/02/24 03:27	1
delta-BHC (1C)	0.90	U	1.0	0.90	0.45	ug/Kg		04/02/24 03:27	1
Dieldrin (1C)	1.2	U	1.7	1.2	0.33	ug/Kg		04/02/24 03:27	1
Endosulfan I (1C)	0.60	U	0.83	0.60	0.22	ug/Kg		04/02/24 03:27	1
Endosulfan II (1C)	2.2	U	2.3	2.2	1.1	ug/Kg		04/02/24 03:27	1
Endosulfan sulfate (1C)	1.2	U	1.7	1.2	0.33	ug/Kg		04/02/24 03:27	1
Endrin (1C)	1.2	U	1.7	1.2	0.68	ug/Kg		04/02/24 03:27	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 410-489257/1-A

Matrix: Solid

Analysis Batch: 489412

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 489257

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Lindane (1C)	0.60	U	0.83	0.60	0.21	ug/Kg		04/02/24 03:27	1
Heptachlor (1C)	0.62	U	0.83	0.62	0.31	ug/Kg		04/02/24 03:27	1
4,4'-DDD (1C)	1.6	U	1.7	1.6	0.80	ug/Kg		04/02/24 03:27	1
4,4'-DDE (1C)	1.4	U	1.7	1.4	0.70	ug/Kg		04/02/24 03:27	1
4,4'-DDT (1C)	1.2	U	1.7	1.2	0.79	ug/Kg		04/02/24 03:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (2C)	80		46 - 152	04/01/24 15:35	04/02/24 03:27	1
Tetrachloro-m-xylene (Surr) (2C)	49		42 - 129	04/01/24 15:35	04/02/24 03:27	1

Lab Sample ID: LCS 410-489257/2-A

Matrix: Solid

Analysis Batch: 489412

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 489257

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin (1C)	3.33	3.94		ug/Kg		118	45 - 136
alpha-BHC (1C)	3.33	4.29		ug/Kg		129	45 - 137
Chlordane (.alpha.) (1C)	3.33	4.33		ug/Kg		130	54 - 133
beta-BHC (1C)	3.33	4.35		ug/Kg		131	50 - 136
delta-BHC (1C)	3.33	4.27		ug/Kg		128	47 - 137
Dieldrin (1C)	6.67	8.72		ug/Kg		131	56 - 136
Endosulfan I (1C)	3.33	4.18		ug/Kg		125	53 - 132
Endosulfan II (1C)	6.67	9.16	Q	ug/Kg		137	53 - 134
Endosulfan sulfate (1C)	6.67	9.19	Q	ug/Kg		138	55 - 136
Endrin (1C)	6.67	8.85		ug/Kg		133	57 - 140
Lindane (1C)	3.33	4.35		ug/Kg		130	49 - 135
Heptachlor (1C)	3.33	4.25		ug/Kg		128	47 - 136
4,4'-DDD (1C)	6.67	9.52	Q	ug/Kg		143	56 - 139
4,4'-DDE (1C)	6.67	8.70		ug/Kg		131	56 - 134
4,4'-DDT (1C)	6.67	8.64		ug/Kg		130	50 - 141

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr) (1C)	120		46 - 152
Tetrachloro-m-xylene (Surr) (2C)	37	Q	42 - 129

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 410-489277/1-A

Matrix: Solid

Analysis Batch: 490430

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 489277

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
PCB-1221 (1C)	11	U	17	11	5.3	ug/Kg		04/04/24 02:15	1
PCB-1232 (1C)	11	U	17	11	5.3	ug/Kg		04/04/24 02:15	1
PCB-1242 (1C)	11	U	17	11	5.3	ug/Kg		04/04/24 02:15	1
PCB-1248 (1C)	11	U	17	11	5.3	ug/Kg		04/04/24 02:15	1
PCB-1254 (1C)	11	U M	17	11	6.4	ug/Kg		04/04/24 02:15	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 410-489277/1-A

Matrix: Solid

Analysis Batch: 490430

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 489277

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
PCB-1260 (1C)	11	U M	17	11	6.4	ug/Kg		04/04/24 02:15	1
PCB-1262 (1C)	11	U M	17	11	6.4	ug/Kg		04/04/24 02:15	1
PCB-1268 (1C)	11	U M	17	11	6.4	ug/Kg		04/04/24 02:15	1
PCB-1016 (1C)	11	U	17	11	5.3	ug/Kg		04/04/24 02:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr) (2C)	80		66 - 130	04/01/24 15:40	04/04/24 02:15	1
Tetrachloro-m-xylene (2C)	71		44 - 130	04/01/24 15:40	04/04/24 02:15	1

Lab Sample ID: LCS 410-489277/2-A

Matrix: Solid

Analysis Batch: 490430

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 489277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1260 (1C)	167	143		ug/Kg		85	53 - 140
PCB-1016 (1C)	167	145		ug/Kg		87	47 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr) (2C)	101		66 - 130
Tetrachloro-m-xylene (2C)	89		44 - 130

Method: 8151A DOD - Herbicides (GC)

Lab Sample ID: MB 410-487927/1-A

Matrix: Solid

Analysis Batch: 487929

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 487927

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Silvex (2,4,5-TP) (1C)	1.5	U	1.7	1.5	0.75	ug/Kg		03/28/24 07:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid (Surr) (1C)	74		27 - 122	03/27/24 00:50	03/28/24 07:55	1
2,4-Dichlorophenylacetic acid (Surr) (2C)	73		27 - 122	03/27/24 00:50	03/28/24 07:55	1

Lab Sample ID: LCS 410-487927/2-A

Matrix: Solid

Analysis Batch: 487929

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 487927

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silvex (2,4,5-TP) (1C)	8.33	6.97		ug/Kg		84	43 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid (Surr) (1C)	72		27 - 122
2,4-Dichlorophenylacetic acid (Surr) (2C)	66		27 - 122

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-484989/1-A ^2
Matrix: Solid
Analysis Batch: 485800

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 484989

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.32	U	0.40	0.32	0.13	mg/Kg		03/21/24 08:37	2
Barium	0.37	U	0.40	0.37	0.18	mg/Kg		03/21/24 08:37	2
Beryllium	0.050	U	0.10	0.050	0.024	mg/Kg		03/21/24 08:37	2
Cadmium	0.080	U	0.10	0.080	0.040	mg/Kg		03/21/24 08:37	2
Chromium	0.38	U	0.40	0.38	0.19	mg/Kg		03/21/24 08:37	2
Copper	0.36	U	0.40	0.36	0.18	mg/Kg		03/21/24 08:37	2
Lead	0.16	U	0.20	0.16	0.076	mg/Kg		03/21/24 08:37	2
Manganese	0.40	U	0.50	0.40	0.20	mg/Kg		03/21/24 08:37	2
Nickel	0.38	U	0.40	0.38	0.19	mg/Kg		03/21/24 08:37	2
Selenium	0.20	U	0.40	0.20	0.10	mg/Kg		03/21/24 08:37	2
Silver	0.080	U	0.10	0.080	0.040	mg/Kg		03/21/24 08:37	2
Zinc	8.0	U	30	8.0	4.0	mg/Kg		03/21/24 08:37	2

Lab Sample ID: LCS 410-484989/2-A ^2
Matrix: Solid
Analysis Batch: 485800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 484989

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	50.0	48.9	D	mg/Kg		98	82 - 118
Barium	50.0	48.7	D	mg/Kg		97	86 - 116
Beryllium	5.00	5.05	D	mg/Kg		101	80 - 120
Cadmium	5.00	4.89	D	mg/Kg		98	84 - 116
Chromium	50.0	49.6	D	mg/Kg		99	83 - 119
Copper	50.0	46.8	D	mg/Kg		94	84 - 119
Lead	5.00	5.00	D	mg/Kg		100	84 - 118
Manganese	50.0	50.5	D	mg/Kg		101	85 - 116
Nickel	50.0	48.6	D	mg/Kg		97	84 - 119
Selenium	10.0	9.54	D	mg/Kg		95	80 - 119
Silver	5.00	4.97	D	mg/Kg		99	83 - 118
Zinc	50.0	50.1	D	mg/Kg		100	82 - 119

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 410-490955/1-A
Matrix: Solid
Analysis Batch: 491183

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 490955

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Mercury	0.040	U	0.060	0.040	0.020	mg/Kg		04/05/24 10:08	1

Lab Sample ID: LCS 410-490955/2-A
Matrix: Solid
Analysis Batch: 491183

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 490955

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.155		mg/Kg		93	80 - 124

QC Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 410-490894/1-A

Matrix: Solid

Analysis Batch: 490980

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 490894

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chromium, hexavalent	0.30	U	0.42	0.30	0.14	mg/Kg		04/05/24 01:26	1

Lab Sample ID: LCS 410-490894/2-A

Matrix: Solid

Analysis Batch: 490980

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 490894

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	5.00	4.41		mg/Kg		88	84 - 110

Lab Sample ID: LCS 410-490894/3-A

Matrix: Solid

Analysis Batch: 490980

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 490894

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	733	666	D	mg/Kg		91	84 - 110

Lab Sample ID: 410-164456-1 MSI

Matrix: Solid

Analysis Batch: 490980

Client Sample ID: Nfarsfill-SCS

Prep Type: Total/NA

Prep Batch: 490894

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	1.8	U *	1090	970	D	mg/Kg	✱	89	75 - 125

Lab Sample ID: 410-164456-1 MSS

Matrix: Solid

Analysis Batch: 490980

Client Sample ID: Nfarsfill-SCS

Prep Type: Total/NA

Prep Batch: 490894

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	1.8	U *	46.7	37.7	D	mg/Kg	✱	81	75 - 125

Lab Sample ID: 410-164456-1 DU

Matrix: Solid

Analysis Batch: 490980

Client Sample ID: Nfarsfill-SCS

Prep Type: Total/NA

Prep Batch: 490894

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium, hexavalent	1.8	U *	1.7	U	mg/Kg	✱	NC	20

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 410-488105/2-A

Matrix: Solid

Analysis Batch: 488272

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 488105

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Cyanide, Total	0.45	U	0.50	0.45	0.18	mg/Kg		03/28/24 15:58	1

QC Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 410-488105/1-A
Matrix: Solid
Analysis Batch: 488272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 488105

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	5.00	5.39		mg/Kg		108	76 - 120

QC Association Summary

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

GC/MS VOA

Prep Batch: 484983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164456-1 - RA	Nfarsfill-SCS	Total/NA	Solid	5035	
410-164456-1	Nfarsfill-SCS	Total/NA	Solid	5035	

Analysis Batch: 487288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164456-1	Nfarsfill-SCS	Total/NA	Solid	8260D	484983
MB 410-487288/7	Method Blank	Total/NA	Solid	8260D	
LCS 410-487288/6	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 410-487288/8	Lab Control Sample Dup	Total/NA	Solid	8260D	

Analysis Batch: 487842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164456-1 - RA	Nfarsfill-SCS	Total/NA	Solid	8260D	484983
MB 410-487842/7	Method Blank	Total/NA	Solid	8260D	
LCS 410-487842/6	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 410-487842/8	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 487240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164456-1	Nfarsfill-SCS	Total/NA	Solid	3546	
MB 410-487240/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-487240/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 487525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164456-1	Nfarsfill-SCS	Total/NA	Solid	8270E	487240
MB 410-487240/1-A	Method Blank	Total/NA	Solid	8270E	487240
LCS 410-487240/2-A	Lab Control Sample	Total/NA	Solid	8270E	487240

GC Semi VOA

Prep Batch: 487927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164456-1	Nfarsfill-SCS	Total/NA	Solid	8151A	
MB 410-487927/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 410-487927/2-A	Lab Control Sample	Total/NA	Solid	8151A	

Analysis Batch: 487929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164456-1	Nfarsfill-SCS	Total/NA	Solid	8151A DOD	487927
MB 410-487927/1-A	Method Blank	Total/NA	Solid	8151A DOD	487927
LCS 410-487927/2-A	Lab Control Sample	Total/NA	Solid	8151A DOD	487927

Prep Batch: 489257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164456-1	Nfarsfill-SCS	Total/NA	Solid	3546	
MB 410-489257/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-489257/2-A	Lab Control Sample	Total/NA	Solid	3546	

QC Association Summary

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

GC Semi VOA

Prep Batch: 489277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164456-1	Nfarsfill-SCS	Total/NA	Solid	3546	
MB 410-489277/1-A	Method Blank	Total/NA	Solid	3546	
LCS 410-489277/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 489412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164456-1	Nfarsfill-SCS	Total/NA	Solid	8081B	489257
MB 410-489257/1-A	Method Blank	Total/NA	Solid	8081B	489257
LCS 410-489257/2-A	Lab Control Sample	Total/NA	Solid	8081B	489257

Analysis Batch: 490430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164456-1	Nfarsfill-SCS	Total/NA	Solid	8082A	489277
MB 410-489277/1-A	Method Blank	Total/NA	Solid	8082A	489277
LCS 410-489277/2-A	Lab Control Sample	Total/NA	Solid	8082A	489277

Analysis Batch: 491027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164456-1	Nfarsfill-SCS	Total/NA	Solid	PCB	

Metals

Prep Batch: 484989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164456-1	Nfarsfill-SCS	Total/NA	Solid	3050B	
MB 410-484989/1-A ^2	Method Blank	Total/NA	Solid	3050B	
LCS 410-484989/2-A ^2	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 485800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164456-1	Nfarsfill-SCS	Total/NA	Solid	6020B	484989
MB 410-484989/1-A ^2	Method Blank	Total/NA	Solid	6020B	484989
LCS 410-484989/2-A ^2	Lab Control Sample	Total/NA	Solid	6020B	484989

Prep Batch: 490955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164456-1	Nfarsfill-SCS	Total/NA	Solid	7471B	
MB 410-490955/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 410-490955/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 491183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164456-1	Nfarsfill-SCS	Total/NA	Solid	7471B	490955
MB 410-490955/1-A	Method Blank	Total/NA	Solid	7471B	490955
LCS 410-490955/2-A	Lab Control Sample	Total/NA	Solid	7471B	490955

General Chemistry

Analysis Batch: 468873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164456-1	Nfarsfill-SCS	Total/NA	Solid	7196A	

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Association Summary

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

General Chemistry

Analysis Batch: 484816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164456-1	Nfarsfill-SCS	Total/NA	Solid	Moisture	

Prep Batch: 488105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164456-1	Nfarsfill-SCS	Total/NA	Solid	9012B	
MB 410-488105/2-A	Method Blank	Total/NA	Solid	9012B	
LCS 410-488105/1-A	Lab Control Sample	Total/NA	Solid	9012B	

Analysis Batch: 488272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164456-1	Nfarsfill-SCS	Total/NA	Solid	9012B	488105
MB 410-488105/2-A	Method Blank	Total/NA	Solid	9012B	488105
LCS 410-488105/1-A	Lab Control Sample	Total/NA	Solid	9012B	488105

Prep Batch: 490894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164456-1	Nfarsfill-SCS	Total/NA	Solid	3060A	
MB 410-490894/1-A	Method Blank	Total/NA	Solid	3060A	
LCS 410-490894/2-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSI 410-490894/3-A	Lab Control Sample	Total/NA	Solid	3060A	
410-164456-1 MSI	Nfarsfill-SCS	Total/NA	Solid	3060A	
410-164456-1 MSS	Nfarsfill-SCS	Total/NA	Solid	3060A	
410-164456-1 DU	Nfarsfill-SCS	Total/NA	Solid	3060A	

Analysis Batch: 490980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164456-1	Nfarsfill-SCS	Total/NA	Solid	7196A	490894
MB 410-490894/1-A	Method Blank	Total/NA	Solid	7196A	490894
LCS 410-490894/2-A	Lab Control Sample	Total/NA	Solid	7196A	490894
LCSI 410-490894/3-A	Lab Control Sample	Total/NA	Solid	7196A	490894
410-164456-1 MSI	Nfarsfill-SCS	Total/NA	Solid	7196A	490894
410-164456-1 MSS	Nfarsfill-SCS	Total/NA	Solid	7196A	490894
410-164456-1 DU	Nfarsfill-SCS	Total/NA	Solid	7196A	490894

Lab Chronicle

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Client Sample ID: Nfarsfill-SCS

Lab Sample ID: 410-164456-1

Date Collected: 03/18/24 11:30

Matrix: Solid

Date Received: 03/19/24 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	PCB		1	491027	URS0	ELLE	04/04/24 04:43
Total/NA	Analysis	7196A		1	468873	USJM	ELLE	03/26/24 08:13
Total/NA	Analysis	Moisture		1	484816	UVJN	ELLE	03/19/24 12:48

Client Sample ID: Nfarsfill-SCS

Lab Sample ID: 410-164456-1

Date Collected: 03/18/24 11:30

Matrix: Solid

Date Received: 03/19/24 10:55

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			484983	NS8P	ELLE	03/19/24 19:37
Total/NA	Analysis	8260D		50	487288	UCB5	ELLE	03/26/24 22:42
Total/NA	Prep	5035	RA		484983	NS8P	ELLE	03/19/24 19:37
Total/NA	Analysis	8260D	RA	50	487842	S8BP	ELLE	03/27/24 23:40
Total/NA	Prep	3546			487240	MD4W	ELLE	03/26/24 16:15
Total/NA	Analysis	8270E		1	487525	N5QU	ELLE	03/27/24 13:28
Total/NA	Prep	3546			489257	MD4W	ELLE	04/01/24 15:35
Total/NA	Analysis	8081B		1	489412	UAMZ	ELLE	04/02/24 07:14
Total/NA	Prep	3546			489277	MD4W	ELLE	04/01/24 15:40
Total/NA	Analysis	8082A		1	490430	M6UH	ELLE	04/04/24 04:43
Total/NA	Prep	8151A			487927	USL7	ELLE	03/27/24 00:50
Total/NA	Analysis	8151A DOD		1	487929	UAMZ	ELLE	03/28/24 11:19
Total/NA	Prep	3050B			484989	UAMX	ELLE	03/19/24 21:00
Total/NA	Analysis	6020B		2	485800	F7JF	ELLE	03/21/24 10:17
Total/NA	Prep	7471B			490955	UAMX	ELLE	04/04/24 23:40
Total/NA	Analysis	7471B		1	491183	UEFS	ELLE	04/05/24 11:10
Total/NA	Prep	3060A			490894	UDS7	ELLE	04/04/24 19:49
Total/NA	Analysis	7196A		5	490980	UDS7	ELLE	04/05/24 01:26
Total/NA	Prep	9012B			488105	NLE3	ELLE	03/28/24 11:15 - 03/28/24 13:00 ¹
Total/NA	Analysis	9012B		1	488272	JCG7	ELLE	03/28/24 16:08

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
7196A		Solid	Cr (III)
Moisture		Solid	Percent Moisture
PCB		Solid	PCB-1016
PCB		Solid	PCB-1221
PCB		Solid	PCB-1232
PCB		Solid	PCB-1242
PCB		Solid	PCB-1248
PCB		Solid	PCB-1254
PCB		Solid	PCB-1260
PCB		Solid	PCB-1262
PCB		Solid	PCB-1268
PCB		Solid	Polychlorinated biphenyls, Total

New York	NELAP	10670	04-01-25
----------	-------	-------	----------

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
7196A		Solid	Cr (III)
Moisture		Solid	Percent Moisture
PCB		Solid	PCB-1016
PCB		Solid	PCB-1221
PCB		Solid	PCB-1232
PCB		Solid	PCB-1242
PCB		Solid	PCB-1248
PCB		Solid	PCB-1254
PCB		Solid	PCB-1260
PCB		Solid	PCB-1262
PCB		Solid	PCB-1268
PCB		Solid	Polychlorinated biphenyls, Total

Method Summary

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
8081B	Organochlorine Pesticides (GC)	SW846	ELLE
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ELLE
8151A DOD	Herbicides (GC)	SW846	ELLE
PCB	Total PCB Calculation	TAL SOP	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
7471B	Mercury (CVAA)	SW846	ELLE
7196A	Chromium, Hexavalent	SW846	ELLE
7196A	Chromium, Trivalent (Colorimetric)	SW846	ELLE
9012B	Cyanide, Total and/or Amenable	SW846	ELLE
Moisture	Percent Moisture	EPA	ELLE
3050B	Preparation, Metals	SW846	ELLE
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	ELLE
3546	Microwave Extraction	SW846	ELLE
5035	Closed System Purge and Trap	SW846	ELLE
7471B	Preparation, Mercury	SW846	ELLE
8151A	Extraction (Herbicides)	SW846	ELLE
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164456-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-164456-1	Nfarsfill-SCS	Solid	03/18/24 11:30	03/19/24 10:55

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Natalie Luciano

From: Natalie Luciano
Sent: Tuesday, March 19, 2024 6:02 PM
To: Nick Wyckoff
Subject: RE: [EXTERNAL]Eurofins Lancaster Laboratories Environment Testing, LLC sample confirmation files from 410-164456-1 Niagara Falls ARS Shelby Crushed Stone

Hi Nick,

The container count of six is for 3x 40ml VOAs, 1x 50ml plastic, 2x 4oz glass jars. We don't count the soil VOA kit as one container, so that is the reason it was noted.

Thank you,
Natalie Luciano
Principal Specialist, Environmental Client Services
Phone: +1 717-556-7258
Email: Natalie.Luciano@ET.EurofinsUS.com

Learn more about eCOC – our NEW electronic COC application



www.EurofinsUS.com/Env

Follow Us! [Facebook](#) | [LinkedIn](#)

From: Nick Wyckoff <Nick.Wyckoff@tideh2o.net>
Sent: Tuesday, March 19, 2024 5:22 PM
To: Natalie Luciano <Natalie.Luciano@et.eurofinsus.com>
Subject: RE: [EXTERNAL]Eurofins Lancaster Laboratories Environment Testing, LLC sample confirmation files from 410-164456-1 Niagara Falls ARS Shelby Crushed Stone

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.

Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Natalie,

I apologize for the errors.

- All preservation codes are (N) with the exception of the terra core kit which is (F).
- For sample state I assume you are referring to State of origin. That would be (New York)
- As for number of containers I am not sure how that is possible.
 - o Cooler 1 had 3 containers as indicated on the first COC (1 terra core kit and 2 4OZ glass soil jars).
 - o Cooler 2 had 2 containers as indicated on the second COC (2 Plastic soil jars).

Please indicate what the extra container is as those above are all that I included.

Let me know if you have any other question regarding the above.

Thank you,
Nick Wyckoff
TIDEWATER, INC
O/C: 203-952-2933

From: Natalie Luciano <TALS@reports.et.eurofinsus.com>

Sent: Tuesday, March 19, 2024 4:31 PM

To: Nick Wyckoff <Nick.Wyckoff@tideh2o.net>

Subject: [EXTERNAL]Eurofins Lancaster Laboratories Environment Testing, LLC sample confirmation files from 410-164456-1 Niagara Falls ARS Shelby Crushed Stone

You don't often get email from tals@reports.et.eurofinsus.com. [Learn why this is important](#)

CAUTION: External email, DO NOT click on any links/attachments unless you recognize the sender and know the content is safe

Hello,

Attached please find the sample confirmation files for job 410-164456-1; Niagara Falls ARS Shelby Crushed Stone.

The Chain-of-Custody (COC) was incomplete as received. The COC is missing Sample State, Sample Preservation. This does not meet regulatory requirements. A revised COC or email providing this information is requested.

This notification regarding the COC completion is based upon a recent PADEP audit requiring we note and comment on incomplete COCs as well as request the missing information. This is for all work we receive even if samples are not from PA.

The container count for the following sample did not match what was listed on the Chain-of-Custody (COC): Nfarsfill-SCS (410-164456-1). The laboratory received 6 total containers, while the COC lists 3 total containers.

The samples were received on 3/19/2024 10:55 AM.

Please feel free to contact me if you have any questions.

Thank you.

Natalie R Luciano
Principal Project Manager

Eurofins Lancaster Laboratories Environment Testing, LLC
Phone: 717-556-7258

E-mail: Natalie.Luciano@et.eurofinsus.com
www.eurofinsus.com/env



Reference: [410-974004]

'onme

Chain of Custody Record



Environment Testing

410-164456-01 Chain of Custody

[illegible]

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control numbers for this information collection are 0579-0054, 0086, 0129, 0198, 0257, 0310, 0317, 0322, 0337, 0346, 0363, and 0369. The time required to complete this information collection is estimated to average 1.25 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

OMB APPROVED
0579-0054/0086/0129/
0198/0317/0310/0317/
0322/0337/0346/0363/
0369

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE PLANT PROTECTION AND QUARANTINE		COMPLIANCE AGREEMENT	
1. NAME AND MAILING ADDRESS OF PERSON OR FIRM Kenneth Boley Eurofins Lancaster Laboratories Environment Testing, LLC 2425 New Holland Pike, Lancaster, PA 17601 717-556-9413 Kenneth.Boley@et.eurofinsus.com		2. LOCATION Same.  410-164456-02 Chain of Custody	
3. REGULATED ARTICLE(S) Non-sterilized Foreign soil; or Foreign & Regulated Domestic soil; or Domestic soil (HI and/or U.S. territories) - ANALYSIS			
4. APPLICABLE FEDERAL QUARANTINE(S) OR REGULATIONS 7 CFR 330, 7 CFR 318.60, and 7 CFR 301			
5. I/WE AGREE TO THE FOLLOWING: I. Transfer and Noncompliance A. This agreement may be immediately cancelled or revoked for noncompliance. B. This compliance agreement is non-transferable. C. Any person who knowingly violates the Plant Protection Act (PPA) (7 U.S.C. 7701 et seq.) and/or the Animal Health Protection Act (AHPA) (7 U.S.C. 8301 et seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, a one-year prison term or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$250,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater. II. Procedures, protocols and limitations established in 'General Stipulations' (attached).			
6. SIGNATURE 	7. TITLE Quality Assurance Mgr.	8. DATE SIGNED 1/19/2023	
The affixing of the signatures below will validate this agreement which shall remain in effect until cancelled, but may be revised as necessary or revoked for noncompliance.		9. AGREEMENT NO. Philadelphia 23	
		10. DATE OF AGREEMENT 01/19/2023	
11. PPQ/CBP OFFICIAL (NAME AND TITLE) Mara Connor, PHSS/PPQ Officer		12. ADDRESS United States Custom House USDA APHIS PPQ 200 Chestnut St. Suite 242A Philadelphia, PA 19106	
13. SIGNATURE 		15. ADDRESS United States Department of Agriculture	
14. U.S. GOVERNMENT/STATE AGENCY OFFICIAL (NAME AND TITLE)			
16. SIGNATURE			

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE
PLANT PROTECTION AND QUARANTINE PROGRAMS
Compliance Agreement

This Compliance Agreement (CA) supplements the PPQ 525 Soil Permit; and Kenneth Boley, Eurofins Lancaster Laboratories Environment Testing, LLC (hereinafter referred to as Permittee), must meet all the terms and conditions as stated on the CA and Permit documents. Although Permittee is signing the Compliance Agreement today, authorization to receive foreign soil is not granted until an official PPQ 525 soil permit from the USDA-APHIS-PPQ, Permit Services, Riverdale, Maryland, is issued to Permittee. By signing this compliance agreement you agree to adhere to the conditions hereby stipulated to receive regulated soil.

Authorization:

This Compliance Agreement authorizes Permittee of Eurofins Lancaster Laboratories Environment Testing, LLC receive untreated regulated DOMESTIC and/or FOREIGN soil for **chemical/physical analysis**.

NOTE: Neither this CA nor a PPQ 525 permit authorizes receipt of untreated regulated soil that has been imported and/or moved domestically across state lines for the purpose of isolation of a living organism, or for extracting and concentrating organisms from the soil. Further it is not authorized for use in field research or release into the environment before treatment. Authorization to receive soil for biological purposes requires a separate PPQ 526 permit (application can be submitted via ePermits and your local USDA-APHIS-PPQ office can provide assistance and direction regarding the application process – see the Supplementary Information Attachment).

Standard Conditions:

1. Activation of this CA requires the signature of Permittee. However, authorization to receive regulated soil is not granted until: 1) notification is received that the State Plant Regulatory Official or designee from the PDA Department of Agriculture (PDA) and the USDA-APHIS-PPQ State Plant Health Director (SPHD) or designee have approved and signed the CA; and 2) the official PPQ 525 permit has been received from the USDA-APHIS-PPQ, Pest Permit Services, Riverdale, Maryland.
2. Compliance Agreements and Soil Permits are non-transferable. Permittee must maintain an official permanent work assignment at the address identified on this CA. If Permittee ceases assignment/affiliation at the address identified on this CA, then the local PPQ office must be notified immediately (that is, within one business day) by either (a) Mara.Connor@usda.gov (b)

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

Continuation of Section 5: General Stipulations

OMB Number 0579-0054

(267) 278-8557 c) USDA APHIS PPQ United States Custom House 200 Chestnut Street Philadelphia, PA 19106. Permittee must also contact the USDA-APHIS-PPQ permitting office at (215) 218-4972. Should Permittee depart from the organization/facility, Permittee will either (a) request cancellation of both the CA and the permit, and comply with all permit-specific termination conditions, (b) apply for and receive a permit to move the soil to a new facility, or (c) relinquish control of the regulated soil to a qualified individual who obtained a permit and CA for the continued use of this regulated soil prior to this permit holder's departure. Go to the Permits website at: (http://www.aphis.usda.gov/plant_health/permits/index.shtml) to apply for an ePermits account to initiate the process. Your local USDA-APHIS-PPQ office can provide direction – (see the Supplementary Information Attachment).

3. This compliance agreement called Philadelphia 23, is valid for the life of the permit issued by APHIS-PPQ.
4. If the regulated soil is to be used by other persons within the same organization, those persons must be under the Permittee's supervision and have received the training specified in #2 below under "Standard Operating Procedure." Otherwise, they must apply for their own permit. Notification to this office may help facilitate such circumstance(s).
5. Transfers of untreated regulated soil require prior written authorization from the local PPQ and state office. This approval comes from the local PPQ office of the State Plant Health Director (SPHD) and the State Plant Regulatory Official (SPRO) of the PA Department of Agriculture (PDA). Such transfer must be done at a facility that is inspected and authorized by USDA-APHIS-PPQ.
6. Without prior notice and during reasonable hours, authorized PPQ and/or State regulatory officials shall be allowed to inspect the conditions associated with the regulated soil authorized under this compliance agreement/permit.
7. Prior to preparing soil for shipment, Permittee must inform shippers to address the soil shipment exactly as it is written on the soil permit and Compliance Agreement and supply a copy of the soil permit to be included with the shipment.
8. All shipments of foreign soil must be shipped by bonded carrier from the port of arrival or Hand-Carried* from the port of arrival directly to Permittee at Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike Lancaster, PA 17601. All shipments of regulated domestic soil must be shipped by bonded carrier to Permittee at Eurofins Lancaster Laboratories Environment Testing, LLC 2425 New Holland Pike Lancaster, PA 17601.

*NOTE: APHIS PPQ may authorize hand-carry of imported soil under the PPQ 525 Soil import permit process on a case by case basis. This change will ensure APHIS policy pertaining to soil importations are consistent with the unique and most recent sanitary/phytosanitary requirements to mitigate risks involved in regulating soil movement. Denial of a hand carry request will not be reason to deny issuance of a permit to move soil by other approved means.

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

Hand carry event is granted only if it is specifically provided for by permit. **However, hand carry is not allowed for bulk shipment of soil intended for decontamination or landfill disposal.** If hand carry authorization is granted, you must adhere to all specific permit conditions including special label requirements pertaining to the hand carry event. You can find additional information on hand carry on the USDA-APHIS website at:

http://www.aphis.usda.gov/plant_health/permits/organism/soil/handcarry.shtml

9. Permittee must attach a PPQ Form 550 Black/White label to the exterior of each shipment being imported under the permit or, in the case of bulk shipment, include the label in the shipping manifest. If you are e-authenticated, you are instructed to request labels using the "My shipment/my label" option within ePermits at least 7 days in advance. Labels also may be requested by email at: BlackWhiteGreenYellow.labelrequest@aphis.usda.gov. All email requests must come from the permit holder or their authorized contact, if requested by an authorized contact the permit holder must be copied on all requests. You must specify PPQ Form 550 Black/White labels, the specific port(s) of entry and number of labels for each port when requesting labels. The requested labels will be sent to you through a bonded carrier.
10. For all shipments/transfers, the integrity of the sample identification must be preserved from the shipper's inventory records to the recipient. Shipper and recipient must maintain records that provide a traceable link with the shipper's sample identification system in order to preserve the integrity of the sample identification from the shipper to eventual sample destruction.

For example, if the shipper transfers a sample designated ABC and the recipient logs it in to his/her inventory system as sample 123, the recipient must maintain and provide to the shipper a record that cross references the sample identifications. An inspector must be able to review the recipient's records and be able to trace them back to the shipper's sample numbers. If the recipient ultimately transfers the regulated material to an alternate USDA approved facility, the integrity of the sample identification must be maintained throughout the transfer process and any subsequent transfers.

Records for each shipment should include the weight, general composition, shipper, shipment origin; and final disposition. Upon request, records of all untreated regulated soil shipments (soil received, soil disposed, and soil transferred) must be available to USDA-APHIS-PPQ and/or the PDA.

Safeguarding Conditions:

1. Soil shall be shipped in a securely closed, watertight container (primary container, test tube, vial, etc.) which shall be enclosed in a second, durable watertight container (secondary container).
2. All regulated soil must be safeguarded through all storage/processing/ decontamination procedures in the authorized facility (and during the transfer from processing point to a detached room for

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

sterilization if this method is used) until sterilized by one of the treatment methods specified (See #5 below). The same applies if the soil is to be transferred to another facility that is inspected and authorized by USDA-APHIS to receive soil. A list of facilities inspected by USDA-APHIS to receive foreign and interstate (domestic) soil samples can be accessed at:

<https://web01.aphis.usda.gov/PPQ/AuthSoilLabs.nsf/web?openform>

3. Upon arrival at the authorized facility the regulated material will be stored at all times in secured containment until transferred or decontaminated. Each stored sample must be labeled as regulated material under USDA Permit. The secured containment must be used to store only regulated material or, if the secured containment area also houses unregulated material, the regulated material must be clearly segregated from the unregulated material as well as being appropriately labeled. A sign must be placed on the outside of the containment: "Contents: Foreign soil and/or regulated domestic soil to be handled in accordance with USDA-APHIS-PPQ Soil Permit and/or Compliance Agreement". As long as untreated regulated soil is present, the containment and all other affected area(s) of the facility must be restricted to access by authorized personnel only. Labeling must be sufficient to readily provide for recognition of the regulated material by emergency response personnel who have the potential to affect the security of the containment as a result of their activities. Permittee is encouraged to interact with local emergency response personnel to acquaint them with all pertinent information relative to the materials regulated under this CA and associated soil permit.
4. Shipping containers and other materials associated with the shipment must be decontaminated by one of the approved treatment methods for soil (see #5 below) or destroyed by incineration.
5. All soil residues must be dry-heated, incinerated, hydroclaved or autoclaved or any other procedure approved by the Deputy Administrator.

A. For Dry Heat Treatment: use one of the following schedules:

110-120.5 degrees C (230-249 F) for 16 hours
121-154 degrees C (250-309 F) for 2 hours
154.4-192.5 degrees C (310-379 F) for 30 minutes
193-220 degrees C (380-429 F) for 4 minutes
221-232 degrees C (430-450 F) for 2 minutes

Time starts when the entire sample reaches the required temperature, and a suitable temperature probe must be used for verification.

B. Autoclave soil and other material using the following conditions:

- i. Soil must be autoclaved at 121 degrees Centigrade (250 degrees Fahrenheit) for a minimum of 30 minutes at 15 psi.
- ii. Autoclave tape or other indicators must be placed on each bag or sharps container prior to treatment. The autoclave tape or other indicator on each container must be checked to verify color

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

- iii. The autoclave log must be completed by each user for each autoclave cycle. All parameters must be noted as listed on the log for each autoclave load.
 - iv. If the autoclave does not attain the minimum time and/or temperature or the autoclave tape does not change color, a notation must be made in the comment section of the autoclave log. The load must then be re-autoclaved after placing new tape on the material. If minimum time and temperature is not attained on the second cycle, the user must contact the person responsible for maintaining the unit to initiate repairs. Waste can also be transferred for treatment with a functional autoclave at another facility that is approved by USDA, in accordance with #5 under "Standard Conditions" above. Contact your local PPQ office.
 - v. Thermometers on the autoclave must be calibrated annually, and a written record must be maintained. This must be done by an authorized autoclave service company during routine servicing.
 - vi. Every 6 months, you must use a commercially available test indicator kit that uses bacterial spores *Bacillus stearothermophilus* that are rendered unviable at 250 degrees F or 121 degrees C. For the test, ampules of *B. stearothermophilus* are autoclaved along with a load of waste. Upon completion of the cycle, the ampules are incubated for 48 hours and then observed for any sign of growth, which indicates insufficient sterilization. If any growth is observed, you must have the autoclave serviced and retested.
- C. Hydroclave soil and other material using the following conditions:
- i. Soil must be hydroclaved at 121 degrees Centigrade (250 degrees Fahrenheit) for a minimum of 30 minutes, or at 132 degrees Centigrade (267 degrees Fahrenheit) for a minimum of 15 minutes.
 - ii. Hydroclaves vary; therefore, the manufacturer's recommendations for hydroclave usage and maintenance must be followed, and these instructions must be readily available for review by PPQ.
 - iii. The hydroclave log must be completed by each user for each hydroclave cycle. All parameters must be noted as listed on the log for each hydroclave load.
 - iv. Observe the temperature sensor to ensure that the hydroclave maintains its required temperature. If the required temperature is not attained, you must contact the person responsible for maintaining the unit to initiate repairs. In the interim, waste must be treated either by an alternate treatment method, or transferred for treatment to another PPQ inspected facility, in accordance with #5 under "Standard Conditions" above.
- D. Incineration: With the exception of metal and glass containers, all regulated and associated material must be reduced completely to ash at the end of the incineration cycle.
- E. Any other procedure approved by the Deputy Administrator.

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

Continuation of Section 5: General Stipulations

Form Approved
OMB Number 0579-0054

6. All water residues (effluent) from the processing of soil samples must be boiled dry, as long as doing so is not a violation of EPA regulations or any other health and safety standard, or treated by an approved treatment/sterilization procedure, such as those listed in #5 above. If boiled dry, the vessel used to boil away the effluent must be treated as any other equipment or supplies that have contacted the soil (see #7 below), and any residue left in the vessel must be treated by an approved treatment/sterilization procedure (see #5 above).

7. Equipment and supplies used to conduct operations or that have contacted the soil must be decontaminated using one of the following methods:

(a) Material can be soaked in a fresh household bleach solution of 10 percent for at least 30 minutes

(b) Material can be soaked in a minimum of 70 percent ethanol

(c) Flamed with ethanol

(d) Treated with quaternary ammonium compounds.

Note that autoclave, hydroclave, incineration, and dry heat sterilization are also acceptable sterilization/decontamination methods.

8. When the laboratory has control over the collection of soil samples, they must inform the collectors that equipment and hand tools used for collecting soil samples in areas subject to Federal and/or State cooperative domestic plant quarantines must be thoroughly cleaned of all soil residues at the collection site.

9. In the event Permittee receives foreign soil or regulated domestic soil with a contaminant (e.g. heavy metals like lead, mercury etc.) that prevents the regulated soil from being decontaminated by dry heat, hydroclave or autoclave and requires a disposal site such as an incinerator or landfill (subject to all applicable local, state, and federal regulations), such site must have a valid USDA, APHIS, PPQ Soil Permit and Compliance Agreement for foreign soil or a valid Compliance Agreement for regulated domestic soil, respectively. Prior written approval from the local USDA, APHIS, PPQ office is required before movement of the soil samples to an approved disposal site.

10. All unconsumed soil, containers and effluent are to be autoclaved, incinerated or properly sterilized by Permittee at the conclusion of the project as approved and prescribed by the CA and permit conditions.

11. Permittee must maintain a valid Soil Permit and/or Compliance Agreement for soil samples to be retained for permanent study or research collections. For continuous possession a soil permit can be renewed by reapplying at least three months before the current permit expires.

To reapply for permit, see "Soil Permit application/renewal procedure and the transition to ePermits" from the Supplemental information attachment.

12. Untreated regulated soil may only be used as growing media under controlled laboratory conditions and in controlled access growth chambers where: 1) access to the regulated soil, lab, and growth chamber is limited to trained authorized personnel; 2) all soil can be contained and recovered for

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

Continuation of Section 5: General Stipulations

decontamination; 3) all effluent including irrigation discharge from the regulated soil can be contained, recovered, and decontaminated; and 4) all contaminated surfaces (including tubing) can be decontaminated. Restricted access and regulated status of the soil must be indicated by appropriate signage. Untreated regulated soil cannot be used as growing media in greenhouses, field trials, or in any release into the environment.

13. Exact records must be kept and made available upon each visit that USDA, APHIS, PPQ or the PA State Department of Agriculture makes to [Name of CO] regarding:

- (1) Date of arrival of each shipment,
- (2) Origin of the soil
- (3) Total amount of soil in each shipment
- (4) Date and amount of soil used for testing purposes
- (5) Date and amount of disposed soil and amount of any remainder
- (6) For transfers of foreign soil - date, amount of soil, and copies of permit and compliance agreement of other party.
- (7) For transfers of regulated domestic soil - date, amount of soil, and copy of compliance agreement of other party.

Standard Operating Procedure (SOP):

1. Permittee at Eurofins Lancaster Laboratories Environment Testing, LLC must prepare a standard operating procedure (SOP) demonstrating compliance with the USDA, APHIS PPQ regulations in terms of handling, storing, safeguarding, transporting, and disposing of foreign soil or effluent, regulated domestic soil or effluent, used shipping containers, equipment and other contact waste. The SOP must contain instructions regarding the cleanup of potential spillage of regulated soil, the subsequent decontamination of affected surfaces, and the sterilization of glassware and equipment. The SOP must be posted in areas where soil is stored and where soil is processed. The SOP may be required at the time of inspection.
2. Permittee at Eurofins Lancaster Laboratories Environment Testing, LLC must present a training program to all employees involved in the process of handling, storing, safeguarding, transporting, and disposing of the regulated soil in accordance with USDA APHIS PPQ regulations. Training must include policy/instructions detailed in the stipulation and conditions in your PPQ 525, the compliance agreement, and the SOP; each employee must know where the SOP is posted. Training must be completed before employees are permitted access to the regulated soil in order to process, safeguard, treat, or dispose. All employees handling regulated soil must be trained annually. Records of all training administered to employees (name and dates) shall be made available to USDA, APHIS, PPQ or PA State Regulatory personnel upon request.
3. Records relating to a sample must be retained and made available for inspection upon request by USDA-APHIS-PPQ and/or the PDA for a period of 3 years following the

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

Continuation of Section 5: General Stipulations

Form Approved
OMB Number 0579-0054

decontamination/sterilization or transfer to another permitted establishment/individual. Records related to training must be retained for 3 years from the date of the records.

4. With Kenneth Boley's signature, Permittee is responsible for compliance with all conditions on the Soil Permit and the Compliance Agreement. This also includes all personnel he/she directly supervises who may be involved with the regulated domestic and/or foreign soil. In the event Permittee is no longer working in this capacity for Eurofins Lancaster Laboratories Environment Testing, LLC either Permittee or Eurofins Lancaster Laboratories Environment Testing, LLC must immediately notify USDA, APHIS, PPQ of this change.

This agreement may be immediately canceled or revoked for noncompliance. Violation of these Federal regulations can result in a criminal penalty of up to a \$5,000 fine, one year in jail, or both, or a civil penalty of up to \$1,000 per violation.

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

Attachment to PPQ FORM 519 (SEP 2012)

Initial/Date KCB 1/19/2023

Login Sample Receipt Checklist

Client: Tidewater Inc.

Job Number: 410-164456-1

Login Number: 164456

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Santiago, Nathaniel

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temp acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace $> 6\text{mm}$ in diameter (none, if from WV)?	N/A	



ANALYTICAL REPORT

PREPARED FOR

Attn: Nick Wyckoff

Tidewater Inc.

3761 Attucks Drive

Powell, Ohio 43065

Generated 4/18/2024 12:23:18 AM

JOB DESCRIPTION

Niagara Falls ARS Shelby Crushed Stone

JOB NUMBER

410-164461-1

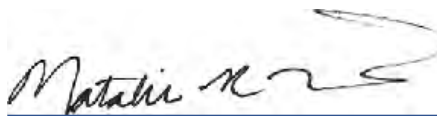
Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
4/18/2024 12:23:18 AM

Authorized for release by
Natalie Luciano, Principal Project Manager
Natalie.Luciano@et.eurofinsus.com
(717)556-7258

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

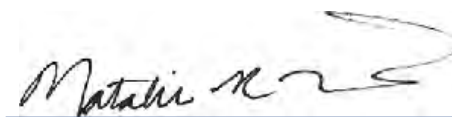


Table of Contents

Cover Page 1

Table of Contents 4

Definitions/Glossary 5

Case Narrative 6

Detection Summary 7

Client Sample Results 8

Isotope Dilution Summary 12

QC Sample Results 14

QC Association Summary 24

Lab Chronicle 25

Certification Summary 26

Method Summary 27

Sample Summary 28

Chain of Custody 29

Receipt Checklists 51



Definitions/Glossary

Client: Tidewater Inc.

Job ID: 410-164461-1

Project/Site: Niagara Falls ARS Shelby Crushed Stone

Qualifiers

LCMS

Qualifier	Qualifier Description
*	See Case Narrative
I	Value is EMPC (estimated maximum possible concentration).
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tidewater Inc.
Project: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164461-1

Job ID: 410-164461-1

Eurofins Lancaster Laboratories Environment

Job Narrative 410-164461-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 3/19/2024 10:55 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C.

PFAS

Method 1633_DOD5: Target analyte(s) Perfluorooctanesulfonic acid was detected in the method blank associated with the following sample: Nfarsfill-SCS (410-164461-1). The following action was taken: This sample(s) was re-extracted within the required holding time and target analyte(s) was not detected in the re-extracted method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tidewater Inc.

Job ID: 410-164461-1

Project/Site: Niagara Falls ARS Shelby Crushed Stone

Client Sample ID: Nfarsfill-SCS

Lab Sample ID: 410-164461-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	0.18	J I M	0.20	0.099	0.050	ug/Kg	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid	0.061	J M	0.20	0.099	0.049	ug/Kg	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid	0.17	J M *	0.20	0.099	0.050	ug/Kg	1	✱	Draft-4 1633	Total/NA
Perfluorooctanoic acid - RE	0.19	J Q M	0.20	0.099	0.050	ug/Kg	1	✱	Draft-4 1633	Total/NA
Perfluorononanoic acid - RE	0.083	J Q M	0.20	0.099	0.049	ug/Kg	1	✱	Draft-4 1633	Total/NA
Perfluorooctanesulfonic acid - RE	0.20	Q M	0.20	0.099	0.050	ug/Kg	1	✱	Draft-4 1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164461-1

Client Sample ID: Nfarsfill-SCS

Lab Sample ID: 410-164461-1

Date Collected: 03/18/24 11:30

Matrix: Solid

Date Received: 03/19/24 10:55

Percent Solids: 84.9

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorobutanoic acid	0.40	U	0.79	0.40	0.099	ug/Kg	✱	04/17/24 15:46	1
Perfluoropentanoic acid	0.20	U	0.40	0.20	0.099	ug/Kg	✱	04/17/24 15:46	1
Perfluorohexanoic acid	0.12	U	0.20	0.12	0.058	ug/Kg	✱	04/17/24 15:46	1
Perfluoroheptanoic acid	0.099	U	0.20	0.099	0.049	ug/Kg	✱	04/17/24 15:46	1
Perfluorooctanoic acid	0.18	J I M	0.20	0.099	0.050	ug/Kg	✱	04/17/24 15:46	1
Perfluorononanoic acid	0.061	J M	0.20	0.099	0.049	ug/Kg	✱	04/17/24 15:46	1
Perfluorodecanoic acid	0.099	U	0.20	0.099	0.049	ug/Kg	✱	04/17/24 15:46	1
Perfluoroundecanoic acid	0.099	U	0.20	0.099	0.049	ug/Kg	✱	04/17/24 15:46	1
Perfluorododecanoic acid	0.099	U	0.20	0.099	0.049	ug/Kg	✱	04/17/24 15:46	1
Perfluorotridecanoic acid	0.099	U	0.20	0.099	0.049	ug/Kg	✱	04/17/24 15:46	1
Perfluorotetradecanoic acid	0.099	U	0.20	0.099	0.049	ug/Kg	✱	04/17/24 15:46	1
Perfluorobutanesulfonic acid	0.099	U	0.20	0.099	0.049	ug/Kg	✱	04/17/24 15:46	1
Perfluoropentanesulfonic acid	0.099	U	0.20	0.099	0.049	ug/Kg	✱	04/17/24 15:46	1
Perfluorohexanesulfonic acid	0.099	U	0.20	0.099	0.049	ug/Kg	✱	04/17/24 15:46	1
Perfluoroheptanesulfonic acid	0.099	U	0.20	0.099	0.049	ug/Kg	✱	04/17/24 15:46	1
Perfluorooctanesulfonic acid	0.17	J M *	0.20	0.099	0.050	ug/Kg	✱	04/17/24 15:46	1
Perfluorononanesulfonic acid	0.099	U	0.20	0.099	0.049	ug/Kg	✱	04/17/24 15:46	1
Perfluorododecanesulfonic acid (PFDoS)	0.099	U	0.20	0.099	0.049	ug/Kg	✱	04/17/24 15:46	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.40	U	0.79	0.40	0.20	ug/Kg	✱	04/17/24 15:46	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	0.79	U	0.99	0.79	0.35	ug/Kg	✱	04/17/24 15:46	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	0.79	U	0.99	0.79	0.35	ug/Kg	✱	04/17/24 15:46	1
Perfluorooctanesulfonamide	0.099	U	0.20	0.099	0.049	ug/Kg	✱	04/17/24 15:46	1
NMeFOSA	0.099	U	0.20	0.099	0.049	ug/Kg	✱	04/17/24 15:46	1
N-methylperfluorooctanesulfonamidoacetic acid	0.099	U	0.20	0.099	0.049	ug/Kg	✱	04/17/24 15:46	1
N-ethylperfluoro-1-octanesulfonamide	0.099	U	0.20	0.099	0.049	ug/Kg	✱	04/17/24 15:46	1
N-ethylperfluorooctanesulfonamidoacetic acid	0.099	U	0.20	0.099	0.049	ug/Kg	✱	04/17/24 15:46	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	0.99	U	2.0	0.99	0.49	ug/Kg	✱	04/17/24 15:46	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	0.99	U	2.0	0.99	0.49	ug/Kg	✱	04/17/24 15:46	1
Perfluoro(2-propoxypropanoic) acid	0.40	U	0.79	0.40	0.099	ug/Kg	✱	04/17/24 15:46	1
DONA	0.40	U	0.79	0.40	0.20	ug/Kg	✱	04/17/24 15:46	1
Perfluoro(4-methoxybutanoic acid)	0.20	U	0.40	0.20	0.099	ug/Kg	✱	04/17/24 15:46	1
Perfluoro-3,6-dioxahexanoic acid	0.20	U	0.40	0.20	0.10	ug/Kg	✱	04/17/24 15:46	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.40	U	0.79	0.40	0.20	ug/Kg	✱	04/17/24 15:46	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.40	U	0.79	0.40	0.20	ug/Kg	✱	04/17/24 15:46	1
Perfluoro (2-ethoxyethane) sulfonic acid	0.20	U	0.40	0.20	0.099	ug/Kg	✱	04/17/24 15:46	1
3:3 FTCA	0.49	U	0.99	0.49	0.25	ug/Kg	✱	04/17/24 15:46	1
5:3 FTCA	2.5	U	4.9	2.5	0.99	ug/Kg	✱	04/17/24 15:46	1
7:3 FTCA	2.5	U	4.9	2.5	0.99	ug/Kg	✱	04/17/24 15:46	1
Perfluorodecanesulfonic acid	0.099	U	0.20	0.099	0.049	ug/Kg	✱	04/17/24 15:46	1
Perfluoro-3-methoxypropanoic acid	0.20	U	0.40	0.20	0.099	ug/Kg	✱	04/17/24 15:46	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164461-1

Client Sample ID: Nfarsfill-SCS

Lab Sample ID: 410-164461-1

Date Collected: 03/18/24 11:30

Matrix: Solid

Date Received: 03/19/24 10:55

Percent Solids: 84.9

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-PFDoDA	80.6		20 - 150	04/15/24 07:26	04/17/24 15:46	1
13C4 PFBA	102		20 - 150	04/15/24 07:26	04/17/24 15:46	1
13C5 PFPeA	97.5		20 - 150	04/15/24 07:26	04/17/24 15:46	1
13C5 PFHxA	100		20 - 150	04/15/24 07:26	04/17/24 15:46	1
13C4 PFHpA	95.9		20 - 150	04/15/24 07:26	04/17/24 15:46	1
13C8 PFOA	89.3		20 - 150	04/15/24 07:26	04/17/24 15:46	1
13C9 PFNA	89.7		20 - 150	04/15/24 07:26	04/17/24 15:46	1
13C6 PFDA	90.9		20 - 150	04/15/24 07:26	04/17/24 15:46	1
13C7 PFUnA	85.5		20 - 150	04/15/24 07:26	04/17/24 15:46	1
13C2 PFTeDA	69.6		20 - 150	04/15/24 07:26	04/17/24 15:46	1
13C3 PFBS	95.3		20 - 150	04/15/24 07:26	04/17/24 15:46	1
13C3 PFHxS	96.6		20 - 150	04/15/24 07:26	04/17/24 15:46	1
13C8 PFOS	87.9		20 - 150	04/15/24 07:26	04/17/24 15:46	1
13C8 FOSA	90.2		20 - 150	04/15/24 07:26	04/17/24 15:46	1
d3-NMeFOSAA	102		20 - 150	04/15/24 07:26	04/17/24 15:46	1
d5-NEtFOSAA	120		20 - 150	04/15/24 07:26	04/17/24 15:46	1
M2-4:2 FTS	101		20 - 150	04/15/24 07:26	04/17/24 15:46	1
M2-6:2 FTS	92.4		20 - 150	04/15/24 07:26	04/17/24 15:46	1
M2-8:2 FTS	86.8		20 - 150	04/15/24 07:26	04/17/24 15:46	1
13C3 HFPO-DA	99.8		20 - 150	04/15/24 07:26	04/17/24 15:46	1
d7-N-MeFOSE-M	76.4		20 - 150	04/15/24 07:26	04/17/24 15:46	1
d9-N-EtFOSE-M	65.8		20 - 150	04/15/24 07:26	04/17/24 15:46	1
d5-NEtPFOSA	59.8		20 - 150	04/15/24 07:26	04/17/24 15:46	1
d3-NMePFOSA	67.1		20 - 150	04/15/24 07:26	04/17/24 15:46	1

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RE

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorobutanoic acid	0.40	U Q	0.79	0.40	0.099	ug/Kg	✱	04/09/24 21:52	1
Perfluoropentanoic acid	0.20	U Q	0.40	0.20	0.099	ug/Kg	✱	04/09/24 21:52	1
Perfluorohexanoic acid	0.12	U Q	0.20	0.12	0.058	ug/Kg	✱	04/09/24 21:52	1
Perfluoroheptanoic acid	0.099	U Q	0.20	0.099	0.049	ug/Kg	✱	04/09/24 21:52	1
Perfluorooctanoic acid	0.19	J Q M	0.20	0.099	0.050	ug/Kg	✱	04/09/24 21:52	1
Perfluorononanoic acid	0.083	J Q M	0.20	0.099	0.049	ug/Kg	✱	04/09/24 21:52	1
Perfluorodecanoic acid	0.099	U Q	0.20	0.099	0.049	ug/Kg	✱	04/09/24 21:52	1
Perfluoroundecanoic acid	0.099	U Q	0.20	0.099	0.049	ug/Kg	✱	04/09/24 21:52	1
Perfluorododecanoic acid	0.099	U Q	0.20	0.099	0.049	ug/Kg	✱	04/09/24 21:52	1
Perfluorotridecanoic acid	0.099	U Q	0.20	0.099	0.049	ug/Kg	✱	04/09/24 21:52	1
Perfluorotetradecanoic acid	0.099	U Q	0.20	0.099	0.049	ug/Kg	✱	04/09/24 21:52	1
Perfluorobutanesulfonic acid	0.099	U Q	0.20	0.099	0.049	ug/Kg	✱	04/09/24 21:52	1
Perfluoropentanesulfonic acid	0.099	U Q	0.20	0.099	0.049	ug/Kg	✱	04/09/24 21:52	1
Perfluorohexanesulfonic acid	0.099	U Q	0.20	0.099	0.049	ug/Kg	✱	04/09/24 21:52	1
Perfluoroheptanesulfonic acid	0.099	U Q	0.20	0.099	0.049	ug/Kg	✱	04/09/24 21:52	1
Perfluorooctanesulfonic acid	0.20	Q M	0.20	0.099	0.050	ug/Kg	✱	04/09/24 21:52	1
Perfluorononanesulfonic acid	0.099	U Q	0.20	0.099	0.049	ug/Kg	✱	04/09/24 21:52	1
Perfluorododecanesulfonic acid (PFDoS)	0.099	U Q	0.20	0.099	0.049	ug/Kg	✱	04/09/24 21:52	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.40	U Q	0.79	0.40	0.20	ug/Kg	✱	04/09/24 21:52	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	0.79	U Q	0.99	0.79	0.35	ug/Kg	✱	04/09/24 21:52	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	0.79	U Q	0.99	0.79	0.35	ug/Kg	✱	04/09/24 21:52	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164461-1

Client Sample ID: Nfarsfill-SCS

Lab Sample ID: 410-164461-1

Date Collected: 03/18/24 11:30

Matrix: Solid

Date Received: 03/19/24 10:55

Percent Solids: 84.9

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RE (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Perfluorooctanesulfonamide	0.099	U Q	0.20	0.099	0.049	ug/Kg	✱	04/09/24 21:52	1
NMeFOSA	0.099	U Q	0.20	0.099	0.049	ug/Kg	✱	04/09/24 21:52	1
N-methylperfluorooctanesulfonamidoacetic acid	0.099	U Q	0.20	0.099	0.049	ug/Kg	✱	04/09/24 21:52	1
N-ethylperfluoro-1-octanesulfonamide	0.099	U Q	0.20	0.099	0.049	ug/Kg	✱	04/09/24 21:52	1
N-ethylperfluorooctanesulfonamidoacetic acid	0.099	U Q	0.20	0.099	0.049	ug/Kg	✱	04/09/24 21:52	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	0.99	U Q	2.0	0.99	0.49	ug/Kg	✱	04/09/24 21:52	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	0.99	U Q	2.0	0.99	0.49	ug/Kg	✱	04/09/24 21:52	1
Perfluoro(2-propoxypropanoic) acid	0.40	U Q	0.79	0.40	0.099	ug/Kg	✱	04/09/24 21:52	1
DONA	0.40	U Q	0.79	0.40	0.20	ug/Kg	✱	04/09/24 21:52	1
Perfluoro(4-methoxybutanoic acid)	0.20	U Q	0.40	0.20	0.099	ug/Kg	✱	04/09/24 21:52	1
Perfluoro-3,6-dioxaheptanoic acid	0.20	U Q	0.40	0.20	0.10	ug/Kg	✱	04/09/24 21:52	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.40	U Q	0.79	0.40	0.20	ug/Kg	✱	04/09/24 21:52	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.40	U Q	0.79	0.40	0.20	ug/Kg	✱	04/09/24 21:52	1
Perfluoro (2-ethoxyethane) sulfonic acid	0.20	U Q	0.40	0.20	0.099	ug/Kg	✱	04/09/24 21:52	1
3:3 FTCA	0.49	U Q	0.99	0.49	0.25	ug/Kg	✱	04/09/24 21:52	1
5:3 FTCA	2.5	U Q	4.9	2.5	0.99	ug/Kg	✱	04/09/24 21:52	1
7:3 FTCA	2.5	U Q	4.9	2.5	0.99	ug/Kg	✱	04/09/24 21:52	1
Perfluorodecanesulfonic acid	0.099	U Q	0.20	0.099	0.049	ug/Kg	✱	04/09/24 21:52	1
Perfluoro-3-methoxypropanoic acid	0.20	U Q	0.40	0.20	0.099	ug/Kg	✱	04/09/24 21:52	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-PFDoDA	88.5		20 - 150	04/04/24 08:29	04/09/24 21:52	1
13C4 PFBA	86.5		20 - 150	04/04/24 08:29	04/09/24 21:52	1
13C5 PFPeA	82.0		20 - 150	04/04/24 08:29	04/09/24 21:52	1
13C5 PFHxA	82.2		20 - 150	04/04/24 08:29	04/09/24 21:52	1
13C4 PFHpA	83.3		20 - 150	04/04/24 08:29	04/09/24 21:52	1
13C8 PFOA	81.9		20 - 150	04/04/24 08:29	04/09/24 21:52	1
13C9 PFNA	83.6		20 - 150	04/04/24 08:29	04/09/24 21:52	1
13C6 PFDA	91.8		20 - 150	04/04/24 08:29	04/09/24 21:52	1
13C7 PFUnA	89.4		20 - 150	04/04/24 08:29	04/09/24 21:52	1
13C2 PFTeDA	87.1		20 - 150	04/04/24 08:29	04/09/24 21:52	1
13C3 PFBS	82.5		20 - 150	04/04/24 08:29	04/09/24 21:52	1
13C3 PFHxS	87.6		20 - 150	04/04/24 08:29	04/09/24 21:52	1
13C8 PFOS	87.9		20 - 150	04/04/24 08:29	04/09/24 21:52	1
13C8 FOSA	79.8		20 - 150	04/04/24 08:29	04/09/24 21:52	1
d3-NMeFOSAA	90.4		20 - 150	04/04/24 08:29	04/09/24 21:52	1
d5-NEtFOSAA	89.1		20 - 150	04/04/24 08:29	04/09/24 21:52	1
M2-4:2 FTS	87.0		20 - 150	04/04/24 08:29	04/09/24 21:52	1
M2-6:2 FTS	95.9		20 - 150	04/04/24 08:29	04/09/24 21:52	1
M2-8:2 FTS	80.0		20 - 150	04/04/24 08:29	04/09/24 21:52	1
13C3 HFPO-DA	79.7		20 - 150	04/04/24 08:29	04/09/24 21:52	1
d7-N-MeFOSE-M	58.5		20 - 150	04/04/24 08:29	04/09/24 21:52	1
d9-N-EtFOSE-M	52.8		20 - 150	04/04/24 08:29	04/09/24 21:52	1
d5-NEtPFOSA	43.2		20 - 150	04/04/24 08:29	04/09/24 21:52	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164461-1

Client Sample ID: Nfarsfill-SCS

Lab Sample ID: 410-164461-1

Date Collected: 03/18/24 11:30

Matrix: Solid

Date Received: 03/19/24 10:55

Percent Solids: 84.9

Method: EPA Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RE (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMePFOSA	52.2		20 - 150	04/04/24 08:29	04/09/24 21:52	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	15.1		1.0		1.0	%		03/19/24 12:48	1

Isotope Dilution Summary

Client: Tidewater Inc.

Job ID: 410-164461-1

Project/Site: Niagara Falls ARS Shelby Crushed Stone

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDODA (20-150)	PFBA (20-150)	PFPeA (20-150)	13C5PHA (20-150)	C4PFHA (20-150)	C8PFOA (20-150)	C9PFNA (20-150)	C6PFDA (20-150)
410-164461-1 - RE	Nfarsfill-SCS	88.5	86.5	82.0	82.2	83.3	81.9	83.6	91.8
410-164461-1	Nfarsfill-SCS	80.6	102	97.5	100	95.9	89.3	89.7	90.9
LCS 410-490580/2-A	Lab Control Sample	26.4	31.3	32.0	33.2	32.2	27.4	30.5	30.0
LCS 410-494058/2-A	Lab Control Sample	71.2	101	102	99.0	96.2	102	90.3	83.3
LLCS 410-490580/3-A	Lab Control Sample	22.1	26.8	24.2	25.3	25.5	24.3	26.4	24.7
LLCS 410-494058/3-A	Lab Control Sample	83.3	105	101	101	97.2	79.4	95.2	87.7
MB 410-490580/1-A	Method Blank	47.5	50.0	50.3	50.8	50.2	50.6	50.4	48.1
MB 410-494058/1-A	Method Blank	81.2	98.9	97.2	92.3	103	84.0	82.9	87.7
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (20-150)	PFTDA (20-150)	C3PFBS (20-150)	C3PFHS (20-150)	C8PFOS (20-150)	PFOSA (20-150)	d3NMFOS (20-150)	d5NEFOS (20-150)
410-164461-1 - RE	Nfarsfill-SCS	89.4	87.1	82.5	87.6	87.9	79.8	90.4	89.1
410-164461-1	Nfarsfill-SCS	85.5	69.6	95.3	96.6	87.9	90.2	102	120
LCS 410-490580/2-A	Lab Control Sample	26.3	25.2	31.5	31.9	31.4	28.7	33.1	30.4
LCS 410-494058/2-A	Lab Control Sample	79.1	64.0	103	99.5	93.5	93.0	93.2	125
LLCS 410-490580/3-A	Lab Control Sample	23.1	23.4	24.2	26.3	26.1	22.6	26.7	27.1
LLCS 410-494058/3-A	Lab Control Sample	88.5	77.8	108	105	92.7	94.4	98.0	115
MB 410-490580/1-A	Method Blank	47.3	40.6	48.7	53.0	48.5	44.7	52.7	49.8
MB 410-494058/1-A	Method Blank	88.9	78.0	100	94.0	92.2	93.5	91.6	117
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (20-150)	M262FTS (20-150)	M282FTS (20-150)	HFPODA (20-150)	NMFM (20-150)	NEFM (20-150)	d5NPFSA (20-150)	d3NMFSA (20-150)
410-164461-1 - RE	Nfarsfill-SCS	87.0	95.9	80.0	79.7	58.5	52.8	43.2	52.2
410-164461-1	Nfarsfill-SCS	101	92.4	86.8	99.8	76.4	65.8	59.8	67.1
LCS 410-490580/2-A	Lab Control Sample	31.8	36.6	34.3	31.4	20.8	19.3 Q	11.8 Q	14.5 Q
LCS 410-494058/2-A	Lab Control Sample	100	95.0	97.3	96.5	79.6	72.9	62.4	65.8
LLCS 410-490580/3-A	Lab Control Sample	24.9	30.2	29.2	24.9	16.5 Q	14.9 Q	7.78 Q	9.44 Q
LLCS 410-494058/3-A	Lab Control Sample	116	101	103	101	78.0	75.7	60.7	61.1
MB 410-490580/1-A	Method Blank	48.7	56.6	69.1	49.8	32.6	31.5	17.8 Q	20.8
MB 410-494058/1-A	Method Blank	95.1	97.3	88.2	97.6	77.2	70.7	56.4	58.2
Surrogate Legend									
PFDODA = 13C2-PFDODA									
PFBA = 13C4 PFBA									
PFPeA = 13C5 PFPeA									
13C5PHA = 13C5 PFHxA									
C4PFHA = 13C4 PFHpA									
C8PFOA = 13C8 PFOA									
C9PFNA = 13C9 PFNA									
C6PFDA = 13C6 PFDA									
13C7PUA = 13C7 PFUnA									
PFTDA = 13C2 PFTeDA									
C3PFBS = 13C3 PFBS									
C3PFHS = 13C3 PFHxS									
C8PFOS = 13C8 PFOS									
PFOSA = 13C8 FOSA									
d3NMFOS = d3-NMeFOSAA									
d5NEFOS = d5-NEtFOSAA									
M242FTS = M2-4:2 FTS									

Isotope Dilution Summary

Client: Tidewater Inc.

Project/Site: Niagara Falls ARS Shelby Crushed Stone

M262FTS = M2-6:2 FTS

M282FTS = M2-8:2 FTS

HFPODA = 13C3 HFPO-DA

NMFM = d7-N-MeFOSE-M

NEFM = d9-N-EtFOSE-M

d5NPFSA = d5-NEtPFOSA

d3NMFSA = d3-NMePFOSA

Job ID: 410-164461-1

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

QC Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164461-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 410-490580/1-A

Matrix: Solid

Analysis Batch: 492260

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 490580

Analyte	MB	MB	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid	0.40	U	0.80	0.40	0.10	ug/Kg		04/09/24 15:43	1
Perfluoropentanoic acid	0.20	U	0.40	0.20	0.10	ug/Kg		04/09/24 15:43	1
Perfluorohexanoic acid	0.12	U	0.20	0.12	0.059	ug/Kg		04/09/24 15:43	1
Perfluoroheptanoic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/09/24 15:43	1
Perfluorooctanoic acid	0.10	U	0.20	0.10	0.051	ug/Kg		04/09/24 15:43	1
Perfluorononanoic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/09/24 15:43	1
Perfluorodecanoic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/09/24 15:43	1
Perfluoroundecanoic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/09/24 15:43	1
Perfluorododecanoic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/09/24 15:43	1
Perfluorotridecanoic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/09/24 15:43	1
Perfluorotetradecanoic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/09/24 15:43	1
Perfluorobutanesulfonic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/09/24 15:43	1
Perfluoropentanesulfonic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/09/24 15:43	1
Perfluorohexanesulfonic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/09/24 15:43	1
Perfluoroheptanesulfonic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/09/24 15:43	1
Perfluorooctanesulfonic acid	0.10	U	0.20	0.10	0.051	ug/Kg		04/09/24 15:43	1
Perfluorononanesulfonic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/09/24 15:43	1
Perfluorododecanesulfonic acid (PFDoS)	0.10	U	0.20	0.10	0.050	ug/Kg		04/09/24 15:43	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.40	U	0.80	0.40	0.20	ug/Kg		04/09/24 15:43	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	0.80	U	1.0	0.80	0.35	ug/Kg		04/09/24 15:43	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	0.80	U	1.0	0.80	0.35	ug/Kg		04/09/24 15:43	1
Perfluorooctanesulfonamide	0.10	U	0.20	0.10	0.050	ug/Kg		04/09/24 15:43	1
NMeFOSA	0.10	U	0.20	0.10	0.050	ug/Kg		04/09/24 15:43	1
N-methylperfluorooctanesulfonamidoacetic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/09/24 15:43	1
N-ethylperfluoro-1-octanesulfonamide	0.10	U	0.20	0.10	0.050	ug/Kg		04/09/24 15:43	1
N-ethylperfluorooctanesulfonamidoacetic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/09/24 15:43	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	1.0	U	2.0	1.0	0.50	ug/Kg		04/09/24 15:43	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	1.0	U	2.0	1.0	0.50	ug/Kg		04/09/24 15:43	1
Perfluoro(2-propoxypropanoic) acid	0.40	U	0.80	0.40	0.10	ug/Kg		04/09/24 15:43	1
DONA	0.40	U	0.80	0.40	0.20	ug/Kg		04/09/24 15:43	1
Perfluoro(4-methoxybutanoic acid)	0.20	U	0.40	0.20	0.10	ug/Kg		04/09/24 15:43	1
Perfluoro-3,6-dioxahexanoic acid	0.20	U	0.40	0.20	0.10	ug/Kg		04/09/24 15:43	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.40	U	0.80	0.40	0.20	ug/Kg		04/09/24 15:43	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.40	U	0.80	0.40	0.20	ug/Kg		04/09/24 15:43	1
Perfluoro (2-ethoxyethane) sulfonic acid	0.20	U	0.40	0.20	0.10	ug/Kg		04/09/24 15:43	1
3:3 FTCA	0.50	U	1.0	0.50	0.25	ug/Kg		04/09/24 15:43	1
5:3 FTCA	2.5	U	5.0	2.5	1.0	ug/Kg		04/09/24 15:43	1
7:3 FTCA	2.5	U	5.0	2.5	1.0	ug/Kg		04/09/24 15:43	1
Perfluorodecanesulfonic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/09/24 15:43	1
Perfluoro-3-methoxypropanoic acid	0.20	U	0.40	0.20	0.10	ug/Kg		04/09/24 15:43	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164461-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-PFDoDA	47.5		20 - 150	04/04/24 08:29	04/09/24 15:43	1
13C4 PFBA	50.0		20 - 150	04/04/24 08:29	04/09/24 15:43	1
13C5 PFPeA	50.3		20 - 150	04/04/24 08:29	04/09/24 15:43	1
13C5 PFHxA	50.8		20 - 150	04/04/24 08:29	04/09/24 15:43	1
13C4 PFHpA	50.2		20 - 150	04/04/24 08:29	04/09/24 15:43	1
13C8 PFOA	50.6		20 - 150	04/04/24 08:29	04/09/24 15:43	1
13C9 PFNA	50.4		20 - 150	04/04/24 08:29	04/09/24 15:43	1
13C6 PFDA	48.1		20 - 150	04/04/24 08:29	04/09/24 15:43	1
13C7 PFUnA	47.3		20 - 150	04/04/24 08:29	04/09/24 15:43	1
13C2 PFTeDA	40.6		20 - 150	04/04/24 08:29	04/09/24 15:43	1
13C3 PFBS	48.7		20 - 150	04/04/24 08:29	04/09/24 15:43	1
13C3 PFHxS	53.0		20 - 150	04/04/24 08:29	04/09/24 15:43	1
13C8 PFOS	48.5		20 - 150	04/04/24 08:29	04/09/24 15:43	1
13C8 FOSA	44.7		20 - 150	04/04/24 08:29	04/09/24 15:43	1
d3-NMeFOSAA	52.7		20 - 150	04/04/24 08:29	04/09/24 15:43	1
d5-NEtFOSAA	49.8		20 - 150	04/04/24 08:29	04/09/24 15:43	1
M2-4:2 FTS	48.7		20 - 150	04/04/24 08:29	04/09/24 15:43	1
M2-6:2 FTS	56.6		20 - 150	04/04/24 08:29	04/09/24 15:43	1
M2-8:2 FTS	69.1		20 - 150	04/04/24 08:29	04/09/24 15:43	1
13C3 HFPO-DA	49.8		20 - 150	04/04/24 08:29	04/09/24 15:43	1
d7-N-MeFOSE-M	32.6		20 - 150	04/04/24 08:29	04/09/24 15:43	1
d9-N-EtFOSE-M	31.5		20 - 150	04/04/24 08:29	04/09/24 15:43	1
d5-NEtPFOSA	17.8	Q	20 - 150	04/04/24 08:29	04/09/24 15:43	1
d3-NMePFOSA	20.8		20 - 150	04/04/24 08:29	04/09/24 15:43	1

Lab Sample ID: LCS 410-490580/2-A
Matrix: Solid
Analysis Batch: 492260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 490580

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	10.0	0.887	Q	ug/Kg		9	40 - 150
Perfluoropentanoic acid	5.00	0.20	U Q	ug/Kg		0	40 - 150
Perfluorohexanoic acid	2.50	0.12	U Q	ug/Kg		0	40 - 150
Perfluoroheptanoic acid	2.50	0.250	Q M	ug/Kg		10	40 - 150
Perfluorooctanoic acid	2.50	0.412	I Q M	ug/Kg		16	40 - 150
Perfluorononanoic acid	2.50	0.10	U Q	ug/Kg		0	40 - 150
Perfluorodecanoic acid	2.50	0.269	I Q	ug/Kg		11	40 - 150
Perfluoroundecanoic acid	2.50	0.223	Q	ug/Kg		9	40 - 150
Perfluorododecanoic acid	2.50	0.10	U Q	ug/Kg		0	40 - 150
Perfluorotridecanoic acid	2.50	0.10	U Q	ug/Kg		0	40 - 150
Perfluorotetradecanoic acid	2.50	0.226	Q	ug/Kg		9	40 - 150
Perfluorobutanesulfonic acid	2.21	0.172	J I Q M	ug/Kg		8	40 - 150
Perfluoropentanesulfonic acid	2.35	0.183	J Q	ug/Kg		8	40 - 150
Perfluorohexanesulfonic acid	2.28	0.241	Q	ug/Kg		11	40 - 150
Perfluoroheptanesulfonic acid	2.38	0.180	J Q	ug/Kg		8	40 - 150
Perfluorooctanesulfonic acid	2.32	0.336	Q	ug/Kg		14	40 - 150
Perfluorononanesulfonic acid	2.40	0.194	J Q	ug/Kg		8	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	2.42	0.144	J Q	ug/Kg		6	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	9.34	1.03	Q	ug/Kg		11	40 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	9.48	0.739	J Q	ug/Kg		8	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164461-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-490580/2-A

Matrix: Solid

Analysis Batch: 492260

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 490580

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	9.58	0.856	J Q	ug/Kg		9	40 - 150
Perfluorooctanesulfonamide	2.50	0.10	U Q	ug/Kg		0	40 - 150
NMeFOSA	2.50	0.10	U Q	ug/Kg		0	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid	2.50	0.225	Q	ug/Kg		9	40 - 150
N-ethylperfluoro-1-octanesulfonamide	2.50	0.10	U Q	ug/Kg		0	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid	2.50	0.264	Q M	ug/Kg		11	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	25.0	2.56	Q M	ug/Kg		10	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	25.0	2.66	Q	ug/Kg		11	40 - 150
Perfluoro(2-propoxypropanoic) acid	10.0	1.09	Q	ug/Kg		11	40 - 150
DONA	9.42	0.890	Q	ug/Kg		9	40 - 150
Perfluoro(4-methoxybutanoic acid)	5.00	0.423	Q	ug/Kg		8	40 - 150
Perfluoro-3,6-dioxahexanoic acid	5.00	0.20	U Q	ug/Kg		0	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9.32	0.884	Q	ug/Kg		9	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	9.42	0.771	J Q	ug/Kg		8	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid	4.45	0.434	Q	ug/Kg		10	40 - 150
3:3 FTCA	12.5	1.14	Q M	ug/Kg		9	40 - 150
5:3 FTCA	62.5	6.46	Q	ug/Kg		10	40 - 150
7:3 FTCA	62.5	5.36	Q	ug/Kg		9	40 - 150
Perfluorodecanesulfonic acid	2.41	0.186	J Q	ug/Kg		8	40 - 150
Perfluoro-3-methoxypropanoic acid	5.00	0.477	Q	ug/Kg		10	40 - 150

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2-PFDoDA	26.4		20 - 150
13C4 PFBA	31.3		20 - 150
13C5 PFPeA	32.0		20 - 150
13C5 PFHxA	33.2		20 - 150
13C4 PFHpA	32.2		20 - 150
13C8 PFOA	27.4		20 - 150
13C9 PFNA	30.5		20 - 150
13C6 PFDA	30.0		20 - 150
13C7 PFUnA	26.3		20 - 150
13C2 PFTeDA	25.2		20 - 150
13C3 PFBS	31.5		20 - 150
13C3 PFHxS	31.9		20 - 150
13C8 PFOS	31.4		20 - 150
13C8 FOSA	28.7		20 - 150
d3-NMeFOSAA	33.1		20 - 150

QC Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164461-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-490580/2-A

Matrix: Solid

Analysis Batch: 492260

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 490580

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	30.4		20 - 150
M2-4:2 FTS	31.8		20 - 150
M2-6:2 FTS	36.6		20 - 150
M2-8:2 FTS	34.3		20 - 150
13C3 HFPO-DA	31.4		20 - 150
d7-N-MeFOSE-M	20.8		20 - 150
d9-N-EtFOSE-M	19.3	Q	20 - 150
d5-NEtPFOSA	11.8	Q	20 - 150
d3-NMePFOSA	14.5	Q	20 - 150

Lab Sample ID: LLCS 410-490580/3-A

Matrix: Solid

Analysis Batch: 492260

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 490580

Analyte	Spike Added	LLCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorobutanoic acid	1.60	0.105	J Q M	ug/Kg		7	40 - 150
Perfluoropentanoic acid	0.800	0.20	U Q	ug/Kg		0	40 - 150
Perfluorohexanoic acid	0.400	0.12	U Q	ug/Kg		0	40 - 150
Perfluoroheptanoic acid	0.400	0.10	U Q	ug/Kg		0	40 - 150
Perfluorooctanoic acid	0.400	0.10	U Q	ug/Kg		0	40 - 150
Perfluorononanoic acid	0.400	0.10	U Q	ug/Kg		0	40 - 150
Perfluorodecanoic acid	0.400	0.10	U Q	ug/Kg		0	40 - 150
Perfluoroundecanoic acid	0.400	0.10	U Q	ug/Kg		0	40 - 150
Perfluorododecanoic acid	0.400	0.10	U Q	ug/Kg		0	40 - 150
Perfluorotridecanoic acid	0.400	0.10	U Q	ug/Kg		0	40 - 150
Perfluorotetradecanoic acid	0.400	0.10	U Q	ug/Kg		0	40 - 150
Perfluorobutanesulfonic acid	0.354	0.107	J I Q	ug/Kg		30	40 - 150
Perfluoropentanesulfonic acid	0.375	0.10	U Q	ug/Kg		13	40 - 150
Perfluorohexanesulfonic acid	0.364	0.106	J Q	ug/Kg		29	40 - 150
Perfluoroheptanesulfonic acid	0.381	0.10	U Q	ug/Kg		0	40 - 150
Perfluorooctanesulfonic acid	0.371	0.10	U Q	ug/Kg		0	40 - 150
Perfluorononanesulfonic acid	0.384	0.10	U Q	ug/Kg		0	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.387	0.10	U Q	ug/Kg		0	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	1.49	0.40	U Q	ug/Kg		0	40 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	1.52	0.80	U Q	ug/Kg		0	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.53	0.80	U Q M	ug/Kg		10	40 - 150
Perfluorooctanesulfonamide	0.400	0.10	U Q	ug/Kg		0	40 - 150
NMeFOSA	0.400	0.10	U Q	ug/Kg		0	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid	0.400	0.10	U Q	ug/Kg		0	40 - 150
N-ethylperfluoro-1-octanesulfonamide	0.400	0.10	U Q	ug/Kg		0	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid	0.400	0.10	U Q	ug/Kg		0	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	4.00	1.0	U Q	ug/Kg		0	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164461-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-490580/3-A

Matrix: Solid

Analysis Batch: 492260

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 490580

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	4.00	1.0	U Q	ug/Kg		0	40 - 150
Perfluoro(2-propoxypropanoic) acid	1.60	0.40	U Q M	ug/Kg		5	40 - 150
DONA	1.51	0.40	U Q M	ug/Kg		7	40 - 150
Perfluoro(4-methoxybutanoic acid)	0.800	0.20	U Q	ug/Kg		0	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	0.800	0.20	U Q	ug/Kg		0	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.49	0.40	U Q	ug/Kg		0	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.51	0.40	U Q	ug/Kg		6	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid	0.712	0.20	U Q M	ug/Kg		7	40 - 150
3:3 FTCA	2.00	0.50	U Q M	ug/Kg		5	40 - 150
5:3 FTCA	10.0	2.5	U Q	ug/Kg		6	40 - 150
7:3 FTCA	10.0	1.06	J I Q	ug/Kg		11	40 - 150
Perfluorodecanesulfonic acid	0.386	0.10	U Q	ug/Kg		0	40 - 150
Perfluoro-3-methoxypropanoic acid	0.800	0.20	U Q	ug/Kg		7	40 - 150

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C2-PFDoDA	22.1		20 - 150
13C4 PFBA	26.8		20 - 150
13C5 PFPeA	24.2		20 - 150
13C5 PFHxA	25.3		20 - 150
13C4 PFHpA	25.5		20 - 150
13C8 PFOA	24.3		20 - 150
13C9 PFNA	26.4		20 - 150
13C6 PFDA	24.7		20 - 150
13C7 PFUnA	23.1		20 - 150
13C2 PFTeDA	23.4		20 - 150
13C3 PFBS	24.2		20 - 150
13C3 PFHxS	26.3		20 - 150
13C8 PFOS	26.1		20 - 150
13C8 FOSA	22.6		20 - 150
d3-NMeFOSAA	26.7		20 - 150
d5-NEtFOSAA	27.1		20 - 150
M2-4:2 FTS	24.9		20 - 150
M2-6:2 FTS	30.2		20 - 150
M2-8:2 FTS	29.2		20 - 150
13C3 HFPO-DA	24.9		20 - 150
d7-N-MeFOSE-M	16.5	Q	20 - 150
d9-N-EtFOSE-M	14.9	Q	20 - 150
d5-NEtPFOSA	7.78	Q	20 - 150
d3-NMePFOSA	9.44	Q	20 - 150

QC Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164461-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 410-494058/1-A

Matrix: Solid

Analysis Batch: 495296

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 494058

Analyte	MB	MB	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid	0.40	U	0.80	0.40	0.10	ug/Kg		04/17/24 15:07	1
Perfluoropentanoic acid	0.20	U	0.40	0.20	0.10	ug/Kg		04/17/24 15:07	1
Perfluorohexanoic acid	0.12	U	0.20	0.12	0.059	ug/Kg		04/17/24 15:07	1
Perfluoroheptanoic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/17/24 15:07	1
Perfluorooctanoic acid	0.10	U	0.20	0.10	0.051	ug/Kg		04/17/24 15:07	1
Perfluorononanoic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/17/24 15:07	1
Perfluorodecanoic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/17/24 15:07	1
Perfluoroundecanoic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/17/24 15:07	1
Perfluorododecanoic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/17/24 15:07	1
Perfluorotridecanoic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/17/24 15:07	1
Perfluorotetradecanoic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/17/24 15:07	1
Perfluorobutanesulfonic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/17/24 15:07	1
Perfluoropentanesulfonic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/17/24 15:07	1
Perfluorohexanesulfonic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/17/24 15:07	1
Perfluoroheptanesulfonic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/17/24 15:07	1
Perfluorooctanesulfonic acid	0.0625	J M	0.20	0.10	0.051	ug/Kg		04/17/24 15:07	1
Perfluorononanesulfonic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/17/24 15:07	1
Perfluorododecanesulfonic acid (PFDoS)	0.10	U	0.20	0.10	0.050	ug/Kg		04/17/24 15:07	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.40	U	0.80	0.40	0.20	ug/Kg		04/17/24 15:07	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	0.80	U	1.0	0.80	0.35	ug/Kg		04/17/24 15:07	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	0.80	U	1.0	0.80	0.35	ug/Kg		04/17/24 15:07	1
Perfluorooctanesulfonamide	0.10	U	0.20	0.10	0.050	ug/Kg		04/17/24 15:07	1
NMeFOSA	0.10	U	0.20	0.10	0.050	ug/Kg		04/17/24 15:07	1
N-methylperfluorooctanesulfonamidoacetic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/17/24 15:07	1
N-ethylperfluoro-1-octanesulfonamide	0.10	U	0.20	0.10	0.050	ug/Kg		04/17/24 15:07	1
N-ethylperfluorooctanesulfonamidoacetic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/17/24 15:07	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	1.0	U	2.0	1.0	0.50	ug/Kg		04/17/24 15:07	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	1.0	U	2.0	1.0	0.50	ug/Kg		04/17/24 15:07	1
Perfluoro(2-propoxypropanoic) acid	0.40	U M	0.80	0.40	0.10	ug/Kg		04/17/24 15:07	1
DONA	0.40	U	0.80	0.40	0.20	ug/Kg		04/17/24 15:07	1
Perfluoro(4-methoxybutanoic acid)	0.20	U	0.40	0.20	0.10	ug/Kg		04/17/24 15:07	1
Perfluoro-3,6-dioxahexanoic acid	0.20	U	0.40	0.20	0.10	ug/Kg		04/17/24 15:07	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.40	U	0.80	0.40	0.20	ug/Kg		04/17/24 15:07	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.40	U	0.80	0.40	0.20	ug/Kg		04/17/24 15:07	1
Perfluoro (2-ethoxyethane) sulfonic acid	0.20	U	0.40	0.20	0.10	ug/Kg		04/17/24 15:07	1
3:3 FTCA	0.50	U	1.0	0.50	0.25	ug/Kg		04/17/24 15:07	1
5:3 FTCA	2.5	U	5.0	2.5	1.0	ug/Kg		04/17/24 15:07	1
7:3 FTCA	2.5	U	5.0	2.5	1.0	ug/Kg		04/17/24 15:07	1
Perfluorodecanesulfonic acid	0.10	U	0.20	0.10	0.050	ug/Kg		04/17/24 15:07	1
Perfluoro-3-methoxypropanoic acid	0.20	U	0.40	0.20	0.10	ug/Kg		04/17/24 15:07	1

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164461-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-PFDoDA	81.2		20 - 150	04/15/24 07:26	04/17/24 15:07	1
13C4 PFBA	98.9		20 - 150	04/15/24 07:26	04/17/24 15:07	1
13C5 PFPeA	97.2		20 - 150	04/15/24 07:26	04/17/24 15:07	1
13C5 PFHxA	92.3		20 - 150	04/15/24 07:26	04/17/24 15:07	1
13C4 PFHpA	103		20 - 150	04/15/24 07:26	04/17/24 15:07	1
13C8 PFOA	84.0		20 - 150	04/15/24 07:26	04/17/24 15:07	1
13C9 PFNA	82.9		20 - 150	04/15/24 07:26	04/17/24 15:07	1
13C6 PFDA	87.7		20 - 150	04/15/24 07:26	04/17/24 15:07	1
13C7 PFUnA	88.9		20 - 150	04/15/24 07:26	04/17/24 15:07	1
13C2 PFTeDA	78.0		20 - 150	04/15/24 07:26	04/17/24 15:07	1
13C3 PFBS	100		20 - 150	04/15/24 07:26	04/17/24 15:07	1
13C3 PFHxS	94.0		20 - 150	04/15/24 07:26	04/17/24 15:07	1
13C8 PFOS	92.2		20 - 150	04/15/24 07:26	04/17/24 15:07	1
13C8 FOSA	93.5		20 - 150	04/15/24 07:26	04/17/24 15:07	1
d3-NMeFOSAA	91.6		20 - 150	04/15/24 07:26	04/17/24 15:07	1
d5-NEtFOSAA	117		20 - 150	04/15/24 07:26	04/17/24 15:07	1
M2-4:2 FTS	95.1		20 - 150	04/15/24 07:26	04/17/24 15:07	1
M2-6:2 FTS	97.3		20 - 150	04/15/24 07:26	04/17/24 15:07	1
M2-8:2 FTS	88.2		20 - 150	04/15/24 07:26	04/17/24 15:07	1
13C3 HFPO-DA	97.6		20 - 150	04/15/24 07:26	04/17/24 15:07	1
d7-N-MeFOSE-M	77.2		20 - 150	04/15/24 07:26	04/17/24 15:07	1
d9-N-EtFOSE-M	70.7		20 - 150	04/15/24 07:26	04/17/24 15:07	1
d5-NEtPFOSA	56.4		20 - 150	04/15/24 07:26	04/17/24 15:07	1
d3-NMePFOSA	58.2		20 - 150	04/15/24 07:26	04/17/24 15:07	1

Lab Sample ID: LCS 410-494058/2-A
Matrix: Solid
Analysis Batch: 495296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 494058

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid	10.0	9.35		ug/Kg		94	40 - 150
Perfluoropentanoic acid	5.00	4.54		ug/Kg		91	40 - 150
Perfluorohexanoic acid	2.50	2.26		ug/Kg		90	40 - 150
Perfluoroheptanoic acid	2.50	2.29		ug/Kg		91	40 - 150
Perfluorooctanoic acid	2.50	2.49		ug/Kg		100	40 - 150
Perfluorononanoic acid	2.50	2.32	M	ug/Kg		93	40 - 150
Perfluorodecanoic acid	2.50	2.33		ug/Kg		93	40 - 150
Perfluoroundecanoic acid	2.50	2.20		ug/Kg		88	40 - 150
Perfluorododecanoic acid	2.50	2.49		ug/Kg		100	40 - 150
Perfluorotridecanoic acid	2.50	2.36		ug/Kg		94	40 - 150
Perfluorotetradecanoic acid	2.50	2.54		ug/Kg		102	40 - 150
Perfluorobutanesulfonic acid	2.21	2.27		ug/Kg		103	40 - 150
Perfluoropentanesulfonic acid	2.35	2.13		ug/Kg		91	40 - 150
Perfluorohexanesulfonic acid	2.28	2.12		ug/Kg		93	40 - 150
Perfluoroheptanesulfonic acid	2.38	2.36		ug/Kg		99	40 - 150
Perfluorooctanesulfonic acid	2.32	2.18		ug/Kg		94	40 - 150
Perfluorononanesulfonic acid	2.40	1.91		ug/Kg		80	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	2.42	2.03		ug/Kg		84	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	9.34	9.52		ug/Kg		102	40 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	9.48	10.4		ug/Kg		110	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164461-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-494058/2-A

Matrix: Solid

Analysis Batch: 495296

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 494058

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	9.58	9.00		ug/Kg		94	40 - 150
Perfluorooctanesulfonamide	2.50	2.36		ug/Kg		95	40 - 150
NMeFOSA	2.50	2.46	M	ug/Kg		98	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid	2.50	2.56		ug/Kg		103	40 - 150
N-ethylperfluoro-1-octanesulfonamide	2.50	2.35		ug/Kg		94	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid	2.50	2.19		ug/Kg		87	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	25.0	23.7		ug/Kg		95	40 - 150
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	25.0	24.2	M	ug/Kg		97	40 - 150
Perfluoro(2-propoxypropanoic) acid	10.0	9.29		ug/Kg		93	40 - 150
DONA	9.42	8.71		ug/Kg		92	40 - 150
Perfluoro(4-methoxybutanoic acid)	5.00	4.38		ug/Kg		88	40 - 150
Perfluoro-3,6-dioxahexanoic acid	5.00	4.81		ug/Kg		96	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9.32	7.49		ug/Kg		80	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	9.42	7.22		ug/Kg		77	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid	4.45	4.15		ug/Kg		93	40 - 150
3:3 FTCA	12.5	12.0		ug/Kg		96	40 - 150
5:3 FTCA	62.5	60.9		ug/Kg		97	40 - 150
7:3 FTCA	62.5	57.4		ug/Kg		92	40 - 150
Perfluorodecanesulfonic acid	2.41	1.99		ug/Kg		82	40 - 150
Perfluoro-3-methoxypropanoic acid	5.00	4.58		ug/Kg		92	40 - 150

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2-PFDoDA	71.2		20 - 150
13C4 PFBA	101		20 - 150
13C5 PFPeA	102		20 - 150
13C5 PFHxA	99.0		20 - 150
13C4 PFHpA	96.2		20 - 150
13C8 PFOA	102		20 - 150
13C9 PFNA	90.3		20 - 150
13C6 PFDA	83.3		20 - 150
13C7 PFUnA	79.1		20 - 150
13C2 PFTeDA	64.0		20 - 150
13C3 PFBS	103		20 - 150
13C3 PFHxS	99.5		20 - 150
13C8 PFOS	93.5		20 - 150
13C8 FOSA	93.0		20 - 150
d3-NMeFOSAA	93.2		20 - 150

QC Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164461-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-494058/2-A

Matrix: Solid

Analysis Batch: 495296

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 494058

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	125		20 - 150
M2-4:2 FTS	100		20 - 150
M2-6:2 FTS	95.0		20 - 150
M2-8:2 FTS	97.3		20 - 150
13C3 HFPO-DA	96.5		20 - 150
d7-N-MeFOSE-M	79.6		20 - 150
d9-N-EtFOSE-M	72.9		20 - 150
d5-NEtPFOSA	62.4		20 - 150
d3-NMePFOSA	65.8		20 - 150

Lab Sample ID: LLCS 410-494058/3-A

Matrix: Solid

Analysis Batch: 495296

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 494058

Analyte	Spike Added	LLCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorobutanoic acid	1.60	1.62		ug/Kg		101	40 - 150
Perfluoropentanoic acid	0.800	0.841		ug/Kg		105	40 - 150
Perfluorohexanoic acid	0.400	0.352		ug/Kg		88	40 - 150
Perfluoroheptanoic acid	0.400	0.382		ug/Kg		95	40 - 150
Perfluorooctanoic acid	0.400	0.444	M	ug/Kg		111	40 - 150
Perfluorononanoic acid	0.400	0.443	M	ug/Kg		111	40 - 150
Perfluorodecanoic acid	0.400	0.375		ug/Kg		94	40 - 150
Perfluoroundecanoic acid	0.400	0.419		ug/Kg		105	40 - 150
Perfluorododecanoic acid	0.400	0.410		ug/Kg		103	40 - 150
Perfluorotridecanoic acid	0.400	0.411		ug/Kg		103	40 - 150
Perfluorotetradecanoic acid	0.400	0.422		ug/Kg		106	40 - 150
Perfluorobutanesulfonic acid	0.354	0.378		ug/Kg		107	40 - 150
Perfluoropentanesulfonic acid	0.375	0.395		ug/Kg		105	40 - 150
Perfluorohexanesulfonic acid	0.364	0.378		ug/Kg		104	40 - 150
Perfluoroheptanesulfonic acid	0.381	0.423		ug/Kg		111	40 - 150
Perfluorooctanesulfonic acid	0.371	0.431		ug/Kg		116	40 - 150
Perfluorononanesulfonic acid	0.384	0.322		ug/Kg		84	40 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.387	0.361		ug/Kg		93	40 - 150
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	1.49	1.54	M	ug/Kg		103	40 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	1.52	1.79		ug/Kg		118	40 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.53	1.61		ug/Kg		105	40 - 150
Perfluorooctanesulfonamide	0.400	0.391	M	ug/Kg		98	40 - 150
NMeFOSA	0.400	0.475		ug/Kg		119	40 - 150
N-methylperfluorooctanesulfonamidoacetic acid	0.400	0.467		ug/Kg		117	40 - 150
N-ethylperfluoro-1-octanesulfonamide	0.400	0.414		ug/Kg		104	40 - 150
N-ethylperfluorooctanesulfonamidoacetic acid	0.400	0.444	M	ug/Kg		111	40 - 150
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	4.00	4.30		ug/Kg		107	40 - 150

Eurofins Lancaster Laboratories Environment Testing, LLC

QC Sample Results

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164461-1

Method: Draft-4 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-494058/3-A

Matrix: Solid

Analysis Batch: 495296

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 494058

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	4.00	4.23	M	ug/Kg		106	40 - 150
Perfluoro(2-propoxypropanoic) acid	1.60	1.60		ug/Kg		100	40 - 150
DONA	1.51	1.61		ug/Kg		107	40 - 150
Perfluoro(4-methoxybutanoic acid)	0.800	0.779		ug/Kg		97	40 - 150
Perfluoro-3,6-dioxaheptanoic acid	0.800	0.771		ug/Kg		96	40 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.49	1.36		ug/Kg		91	40 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.51	1.33		ug/Kg		88	40 - 150
Perfluoro (2-ethoxyethane) sulfonic acid	0.712	0.657		ug/Kg		92	40 - 150
3:3 FTCA	2.00	2.11		ug/Kg		105	40 - 150
5:3 FTCA	10.0	10.1		ug/Kg		101	40 - 150
7:3 FTCA	10.0	9.51		ug/Kg		95	40 - 150
Perfluorodecanesulfonic acid	0.386	0.363		ug/Kg		94	40 - 150
Perfluoro-3-methoxypropanoic acid	0.800	0.799		ug/Kg		100	40 - 150

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	Limits
13C2-PFDoDA	83.3		20 - 150
13C4 PFBA	105		20 - 150
13C5 PFPeA	101		20 - 150
13C5 PFHxA	101		20 - 150
13C4 PFHpA	97.2		20 - 150
13C8 PFOA	79.4		20 - 150
13C9 PFNA	95.2		20 - 150
13C6 PFDA	87.7		20 - 150
13C7 PFUnA	88.5		20 - 150
13C2 PFTeDA	77.8		20 - 150
13C3 PFBS	108		20 - 150
13C3 PFHxS	105		20 - 150
13C8 PFOS	92.7		20 - 150
13C8 FOSA	94.4		20 - 150
d3-NMeFOSAA	98.0		20 - 150
d5-NEtFOSAA	115		20 - 150
M2-4:2 FTS	116		20 - 150
M2-6:2 FTS	101		20 - 150
M2-8:2 FTS	103		20 - 150
13C3 HFPO-DA	101		20 - 150
d7-N-MeFOSE-M	78.0		20 - 150
d9-N-EtFOSE-M	75.7		20 - 150
d5-NEtPFOSA	60.7		20 - 150
d3-NMePFOSA	61.1		20 - 150

QC Association Summary

Client: Tidewater Inc.

Job ID: 410-164461-1

Project/Site: Niagara Falls ARS Shelby Crushed Stone

LCMS

Prep Batch: 490580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164461-1 - RE	Nfarsfill-SCS	Total/NA	Solid	1633 Shake	
MB 410-490580/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 410-490580/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 410-490580/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

Analysis Batch: 492260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164461-1 - RE	Nfarsfill-SCS	Total/NA	Solid	Draft-4 1633	490580
MB 410-490580/1-A	Method Blank	Total/NA	Solid	Draft-4 1633	490580
LCS 410-490580/2-A	Lab Control Sample	Total/NA	Solid	Draft-4 1633	490580
LLCS 410-490580/3-A	Lab Control Sample	Total/NA	Solid	Draft-4 1633	490580

Prep Batch: 494058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164461-1	Nfarsfill-SCS	Total/NA	Solid	1633 Shake	
MB 410-494058/1-A	Method Blank	Total/NA	Solid	1633 Shake	
LCS 410-494058/2-A	Lab Control Sample	Total/NA	Solid	1633 Shake	
LLCS 410-494058/3-A	Lab Control Sample	Total/NA	Solid	1633 Shake	

Analysis Batch: 495296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164461-1	Nfarsfill-SCS	Total/NA	Solid	Draft-4 1633	494058
MB 410-494058/1-A	Method Blank	Total/NA	Solid	Draft-4 1633	494058
LCS 410-494058/2-A	Lab Control Sample	Total/NA	Solid	Draft-4 1633	494058
LLCS 410-494058/3-A	Lab Control Sample	Total/NA	Solid	Draft-4 1633	494058

General Chemistry

Analysis Batch: 484816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-164461-1	Nfarsfill-SCS	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164461-1

Client Sample ID: Nfarsfill-SCS
Date Collected: 03/18/24 11:30
Date Received: 03/19/24 10:55

Lab Sample ID: 410-164461-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	484816	UVJN	ELLE	03/19/24 12:48

Client Sample ID: Nfarsfill-SCS
Date Collected: 03/18/24 11:30
Date Received: 03/19/24 10:55

Lab Sample ID: 410-164461-1
Matrix: Solid
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633 Shake	RE		490580	AM9P	ELLE	04/04/24 08:29
Total/NA	Analysis	Draft-4 1633	RE	1	492260	BWX7	ELLE	04/09/24 21:52
Total/NA	Prep	1633 Shake			494058	X3LR	ELLE	04/15/24 07:26
Total/NA	Analysis	Draft-4 1633		1	495296	UUV6	ELLE	04/17/24 15:46

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164461-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
New York	NELAP	10670	04-01-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Draft-4 1633	1633 Shake	Solid	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
Draft-4 1633	1633 Shake	Solid	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)
Draft-4 1633	1633 Shake	Solid	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)
Draft-4 1633	1633 Shake	Solid	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol
Draft-4 1633	1633 Shake	Solid	2-(N-methylperfluoro-1-octanesulfonamido) ethanol
Draft-4 1633	1633 Shake	Solid	3:3 FTCA
Draft-4 1633	1633 Shake	Solid	5:3 FTCA
Draft-4 1633	1633 Shake	Solid	7:3 FTCA
Draft-4 1633	1633 Shake	Solid	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
Draft-4 1633	1633 Shake	Solid	DONA
Draft-4 1633	1633 Shake	Solid	N-ethylperfluoro-1-octanesulfonamide
Draft-4 1633	1633 Shake	Solid	NMeFOSA
Draft-4 1633	1633 Shake	Solid	Perfluoro (2-ethoxyethane) sulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluoro(2-propoxypropanoic) acid
Draft-4 1633	1633 Shake	Solid	Perfluoro(4-methoxybutanoic acid)
Draft-4 1633	1633 Shake	Solid	Perfluoro-3,6-dioxaheptanoic acid
Draft-4 1633	1633 Shake	Solid	Perfluoro-3-methoxypropanoic acid
Draft-4 1633	1633 Shake	Solid	Perfluorobutanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorodecanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorododecanesulfonic acid (PFDoS)
Draft-4 1633	1633 Shake	Solid	Perfluoroheptanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorohexanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorononanesulfonic acid
Draft-4 1633	1633 Shake	Solid	Perfluorooctanesulfonamide
Draft-4 1633	1633 Shake	Solid	Perfluoropentanesulfonic acid
Moisture		Solid	Percent Moisture

Method Summary

Client: Tidewater Inc.

Job ID: 410-164461-1

Project/Site: Niagara Falls ARS Shelby Crushed Stone

Method	Method Description	Protocol	Laboratory
Draft-4 1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	ELLE
Moisture	Percent Moisture	EPA	ELLE
1633 Shake	Shake Extraction with SPE	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Tidewater Inc.
Project/Site: Niagara Falls ARS Shelby Crushed Stone

Job ID: 410-164461-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-164461-1	Nfarsfill-SCS	Solid	03/18/24 11:30	03/19/24 10:55

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Natalie Luciano

From: Natalie Luciano
Sent: Tuesday, March 19, 2024 6:02 PM
To: Nick Wyckoff
Subject: RE: [EXTERNAL]Eurofins Lancaster Laboratories Environment Testing, LLC sample confirmation files from 410-164456-1 Niagara Falls ARS Shelby Crushed Stone

Hi Nick,

The container count of six is for 3x 40ml VOAs, 1x 50ml plastic, 2x 4oz glass jars. We don't count the soil VOA kit as one container, so that is the reason it was noted.

Thank you,
Natalie Luciano
Principal Specialist, Environmental Client Services
Phone: +1 717-556-7258
Email: Natalie.Luciano@ET.EurofinsUS.com

Learn more about eCOC – our NEW electronic COC application



www.EurofinsUS.com/Env

Follow Us! [Facebook](#) | [LinkedIn](#)

From: Nick Wyckoff <Nick.Wyckoff@tideh2o.net>
Sent: Tuesday, March 19, 2024 5:22 PM
To: Natalie Luciano <Natalie.Luciano@et.eurofinsus.com>
Subject: RE: [EXTERNAL]Eurofins Lancaster Laboratories Environment Testing, LLC sample confirmation files from 410-164456-1 Niagara Falls ARS Shelby Crushed Stone

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.

Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Natalie,

I apologize for the errors.

- All preservation codes are (N) with the exception of the terra core kit which is (F).
- For sample state I assume you are referring to State of origin. That would be (New York)
- As for number of containers I am not sure how that is possible.
 - o Cooler 1 had 3 containers as indicated on the first COC (1 terra core kit and 2 4OZ glass soil jars).
 - o Cooler 2 had 2 containers as indicated on the second COC (2 Plastic soil jars).

Please indicate what the extra container is as those above are all that I included.

Let me know if you have any other question regarding the above.

Thank you,
Nick Wyckoff
TIDEWATER, INC
O/C: 203-952-2933

From: Natalie Luciano <TALS@reports.et.eurofinsus.com>
Sent: Tuesday, March 19, 2024 4:31 PM
To: Nick Wyckoff <Nick.Wyckoff@tideh2o.net>
Subject: [EXTERNAL]Eurofins Lancaster Laboratories Environment Testing, LLC sample confirmation files from 410-164456-1 Niagara Falls ARS Shelby Crushed Stone

You don't often get email from tals@reports.et.eurofinsus.com. [Learn why this is important](#)

CAUTION: External email, DO NOT click on any links/attachments unless you recognize the sender and know the content is safe

Hello,

Attached please find the sample confirmation files for job 410-164456-1; Niagara Falls ARS Shelby Crushed Stone.

The Chain-of-Custody (COC) was incomplete as received. The COC is missing Sample State, Sample Preservation. This does not meet regulatory requirements. A revised COC or email providing this information is requested. This notification regarding the COC completion is based upon a recent PADEP audit requiring we note and comment on incomplete COCs as well as request the missing information. This is for all work we receive even if samples are not from PA.

The container count for the following sample did not match what was listed on the Chain-of-Custody (COC): Nfarsfill-SCS (410-164456-1). The laboratory received 6 total containers, while the COC lists 3 total containers.

The samples were received on 3/19/2024 10:55 AM.

Please feel free to contact me if you have any questions.

Thank you.

Natalie R Luciano
Principal Project Manager

Eurofins Lancaster Laboratories Environment Testing, LLC
Phone: 717-556-7258

E-mail: Natalie.Luciano@et.eurofinsus.com
www.eurofinsus.com/env



Reference: [410-974004]

'onme

Chain of Custody Record



Environment Testing

410-164456-01 Chain of Custody

410-164456-01 Chain of Custody		Sampler: NW		Lab PM: Luciano, Natalie R		Carrier Tracking No(s):		COC No: 410-117122-29337 1													
Client Contact: Nick Wyckoff		Phone: 203 952 2933		E-Mail: Natalie.Luciano@et.eurofinsus.com		State of Origin:		Page: Page 1 of 1													
Company: Tidewater Inc.		PWSID:		Analysis Requested						Job #:											
Address: 3761 Attucks Drive		Due Date Requested: 6020B 3/22/24		Field Filtered Sample (Yes or No) <table><tr><td>1-MeOH, 2-SB</td><td>8270 E-0005 (SVOC)</td><td>8082 A-0005 (PCB)</td><td>8081 B-0005 (pesticides)</td><td>6020 B-0005 (metals)</td><td>7471 B-0005 (mercury)</td><td>8151 A-0005 (Herbicides)</td><td>9012 B-0005 (cyanide)</td><td>7196 A-CR3 (Tri-chrom)</td><td>7196 A-0005 (Hex-chrom)</td></tr></table>						1-MeOH, 2-SB	8270 E-0005 (SVOC)	8082 A-0005 (PCB)	8081 B-0005 (pesticides)	6020 B-0005 (metals)	7471 B-0005 (mercury)	8151 A-0005 (Herbicides)	9012 B-0005 (cyanide)	7196 A-CR3 (Tri-chrom)	7196 A-0005 (Hex-chrom)	Preservation Codes:	
1-MeOH, 2-SB	8270 E-0005 (SVOC)	8082 A-0005 (PCB)	8081 B-0005 (pesticides)							6020 B-0005 (metals)	7471 B-0005 (mercury)	8151 A-0005 (Herbicides)	9012 B-0005 (cyanide)	7196 A-CR3 (Tri-chrom)	7196 A-0005 (Hex-chrom)						
City: Powell		TAT Requested (days): 6020 B 3 day rush other Normal								Preservation Codes:											
State, Zip: OH 43065		Compliance Project: ☐ Yes ☐ No								Preservation Codes:											
Phone: 203-952-2933(Tel)		PO #: Purchase Order Requested								Preservation Codes:											
Email: nick.wyckoff@tideh2o.net		WO #:		Preservation Codes:																	
Project Name: Niagara Falls ARS		Project #: 41017504		Total Number of containers						Other:											
Site: Shelby crushed stone		SSOW#:								Other:											
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=wastewater) BT=Tissue, A=Air		Special Instructions/Note											
N far B fill - SCS		3/18/24		1130		C		S		3 Analyze metals first on rush 3 day TAT											
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Special Instructions/QC Requirements.																	
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months																			
Deliverable Requested I, II III IV Other (specify)		Empty Kit Relinquished by: Nick Wyckoff		Date: 3/18/24 1304		Company: TV		Received by:		Date/Time: 3/19/24 1055		Company: BURET									
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: R 1.0 C 1.0																	

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control numbers for this information collection are 0579-0054, 0086, 0129, 0198, 0257, 0310, 0317, 0322, 0337, 0346, 0363, and 0369. The time required to complete this information collection is estimated to average 1.25 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

OMB APPROVED
0579-0054/0086/0129/
0198/0317/0310/0317/
0322/0337/0346/0363/
0369

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE
PLANT PROTECTION AND QUARANTINE

COMPLIANCE AGREEMENT

1. NAME AND MAILING ADDRESS OF PERSON OR FIRM

Kenneth Boley
Eurofins Lancaster Laboratories Environment Testing,
LLC
2425 New Holland Pike, Lancaster, PA 17601
717-556-9413
Kenneth.Boley@et.eurofinsus.com

2. LOCATION

Same.



410-164456-02 Chain of Custody

3. REGULATED ARTICLE(S)

Non-sterilized Foreign soil; or Foreign & Regulated Domestic soil; or Domestic soil (HI and/or U.S. territories) - ANALYSIS

4. APPLICABLE FEDERAL QUARANTINE(S) OR REGULATIONS

7 CFR 330, 7 CFR 318.60, and 7 CFR 301

5. I/WE AGREE TO THE FOLLOWING:

I. Transfer and Noncompliance

A. This agreement may be immediately cancelled or revoked for noncompliance.

B. This compliance agreement is non-transferable.

C. Any person who knowingly violates the Plant Protection Act (PPA) (7 U.S.C. 7701 et seq.) and/or the Animal Health Protection Act (AHPA) (7 U.S.C. 8301 et seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, a one-year prison term or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$250,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

II. Procedures, protocols and limitations established in 'General Stipulations' (attached).

6. SIGNATURE

Kenneth Boley

7. TITLE

Quality Assurance Mgr.

8. DATE SIGNED

1/19/2023

The affixing of the signatures below will validate this agreement which shall remain in effect until cancelled, but may be revised as necessary or revoked for noncompliance.

9. AGREEMENT NO.

Philadelphia 23

10. DATE OF AGREEMENT

01/19/2023

11. PPQ/CBP OFFICIAL (NAME AND TITLE)

Mara Connor, PHSS/PPQ Officer

12. ADDRESS

United States Custom House
USDA APHIS PPQ
200 Chestnut St. Suite 242A
Philadelphia, PA 19106

13. SIGNATURE

Mara Connor

14. U.S. GOVERNMENT/STATE AGENCY OFFICIAL (NAME AND TITLE)

United States Department of Agriculture

16. SIGNATURE

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE
PLANT PROTECTION AND QUARANTINE PROGRAMS
Compliance Agreement

This Compliance Agreement (CA) supplements the PPQ 525 Soil Permit; and Kenneth Boley, Eurofins Lancaster Laboratories Environment Testing, LLC (hereinafter referred to as Permittee), must meet all the terms and conditions as stated on the CA and Permit documents. Although Permittee is signing the Compliance Agreement today, authorization to receive foreign soil is not granted until an official PPQ 525 soil permit from the USDA-APHIS-PPQ, Permit Services, Riverdale, Maryland, is issued to Permittee. By signing this compliance agreement you agree to adhere to the conditions hereby stipulated to receive regulated soil.

Authorization:

This Compliance Agreement authorizes Permittee of Eurofins Lancaster Laboratories Environment Testing, LLC receive untreated regulated DOMESTIC and/or FOREIGN soil for **chemical/physical analysis**.

NOTE: Neither this CA nor a PPQ 525 permit authorizes receipt of untreated regulated soil that has been imported and/or moved domestically across state lines for the purpose of isolation of a living organism, or for extracting and concentrating organisms from the soil. Further it is not authorized for use in field research or release into the environment before treatment. Authorization to receive soil for biological purposes requires a separate PPQ 526 permit (application can be submitted via ePermits and your local USDA-APHIS-PPQ office can provide assistance and direction regarding the application process – see the Supplementary Information Attachment).

Standard Conditions:

1. Activation of this CA requires the signature of Permittee. However, authorization to receive regulated soil is not granted until: 1) notification is received that the State Plant Regulatory Official or designee from the PDA Department of Agriculture (PDA) and the USDA-APHIS-PPQ State Plant Health Director (SPHD) or designee have approved and signed the CA; and 2) the official PPQ 525 permit has been received from the USDA-APHIS-PPQ, Pest Permit Services, Riverdale, Maryland.
2. Compliance Agreements and Soil Permits are non-transferable. Permittee must maintain an official permanent work assignment at the address identified on this CA. If Permittee ceases assignment/affiliation at the address identified on this CA, then the local PPQ office must be notified immediately (that is, within one business day) by either (a) Mara.Connor@usda.gov (b)

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

Continuation of Section 5: General Stipulations

OMB Number 0579-0054

(267) 278-8557 c) USDA APHIS PPQ United States Custom House 200 Chestnut Street Philadelphia, PA 19106. Permittee must also contact the USDA-APHIS-PPQ permitting office at (215) 218-4972. Should Permittee depart from the organization/facility, Permittee will either (a) request cancellation of both the CA and the permit, and comply with all permit-specific termination conditions, (b) apply for and receive a permit to move the soil to a new facility, or (c) relinquish control of the regulated soil to a qualified individual who obtained a permit and CA for the continued use of this regulated soil prior to this permit holder's departure. Go to the Permits website at: (http://www.aphis.usda.gov/plant_health/permits/index.shtml) to apply for an ePermits account to initiate the process. Your local USDA-APHIS-PPQ office can provide direction – (see the Supplementary Information Attachment).

3. This compliance agreement called Philadelphia 23, is valid for the life of the permit issued by APHIS-PPQ.
4. If the regulated soil is to be used by other persons within the same organization, those persons must be under the Permittee's supervision and have received the training specified in #2 below under "Standard Operating Procedure." Otherwise, they must apply for their own permit. Notification to this office may help facilitate such circumstance(s).
5. Transfers of untreated regulated soil require prior written authorization from the local PPQ and state office. This approval comes from the local PPQ office of the State Plant Health Director (SPHD) and the State Plant Regulatory Official (SPRO) of the PA Department of Agriculture (PDA). Such transfer must be done at a facility that is inspected and authorized by USDA-APHIS-PPQ.
6. Without prior notice and during reasonable hours, authorized PPQ and/or State regulatory officials shall be allowed to inspect the conditions associated with the regulated soil authorized under this compliance agreement/permit.
7. Prior to preparing soil for shipment, Permittee must inform shippers to address the soil shipment exactly as it is written on the soil permit and Compliance Agreement and supply a copy of the soil permit to be included with the shipment.
8. All shipments of foreign soil must be shipped by bonded carrier from the port of arrival or Hand-Carried* from the port of arrival directly to Permittee at Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike Lancaster, PA 17601. All shipments of regulated domestic soil must be shipped by bonded carrier to Permittee at Eurofins Lancaster Laboratories Environment Testing, LLC 2425 New Holland Pike Lancaster, PA 17601.

*NOTE: APHIS PPQ may authorize hand-carry of imported soil under the PPQ 525 Soil import permit process on a case by case basis. This change will ensure APHIS policy pertaining to soil importations are consistent with the unique and most recent sanitary/phytosanitary requirements to mitigate risks involved in regulating soil movement. Denial of a hand carry request will not be reason to deny issuance of a permit to move soil by other approved means.

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

Hand carry event is granted only if it is specifically provided for by permit. **However, hand carry is not allowed for bulk shipment of soil intended for decontamination or landfill disposal.** If hand carry authorization is granted, you must adhere to all specific permit conditions including special label requirements pertaining to the hand carry event. You can find additional information on hand carry on the USDA-APHIS website at:

http://www.aphis.usda.gov/plant_health/permits/organism/soil/handcarry.shtml

9. Permittee must attach a PPQ Form 550 Black/White label to the exterior of each shipment being imported under the permit or, in the case of bulk shipment, include the label in the shipping manifest. If you are e-authenticated, you are instructed to request labels using the "My shipment/my label" option within ePermits at least 7 days in advance. Labels also may be requested by email at: BlackWhiteGreenYellow.labelrequest@aphis.usda.gov. All email requests must come from the permit holder or their authorized contact, if requested by an authorized contact the permit holder must be copied on all requests. You must specify PPQ Form 550 Black/White labels, the specific port(s) of entry and number of labels for each port when requesting labels. The requested labels will be sent to you through a bonded carrier.
10. For all shipments/transfers, the integrity of the sample identification must be preserved from the shipper's inventory records to the recipient. Shipper and recipient must maintain records that provide a traceable link with the shipper's sample identification system in order to preserve the integrity of the sample identification from the shipper to eventual sample destruction.

For example, if the shipper transfers a sample designated ABC and the recipient logs it in to his/her inventory system as sample 123, the recipient must maintain and provide to the shipper a record that cross references the sample identifications. An inspector must be able to review the recipient's records and be able to trace them back to the shipper's sample numbers. If the recipient ultimately transfers the regulated material to an alternate USDA approved facility, the integrity of the sample identification must be maintained throughout the transfer process and any subsequent transfers.

Records for each shipment should include the weight, general composition, shipper, shipment origin; and final disposition. Upon request, records of all untreated regulated soil shipments (soil received, soil disposed, and soil transferred) must be available to USDA-APHIS-PPQ and/or the PDA.

Safeguarding Conditions:

1. Soil shall be shipped in a securely closed, watertight container (primary container, test tube, vial, etc.) which shall be enclosed in a second, durable watertight container (secondary container).
2. All regulated soil must be safeguarded through all storage/processing/ decontamination procedures in the authorized facility (and during the transfer from processing point to a detached room for

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

sterilization if this method is used) until sterilized by one of the treatment methods specified (See #5 below). The same applies if the soil is to be transferred to another facility that is inspected and authorized by USDA-APHIS to receive soil. A list of facilities inspected by USDA-APHIS to receive foreign and interstate (domestic) soil samples can be accessed at:

<https://web01.aphis.usda.gov/PPQ/AuthSoilLabs.nsf/web?openform>

3. Upon arrival at the authorized facility the regulated material will be stored at all times in secured containment until transferred or decontaminated. Each stored sample must be labeled as regulated material under USDA Permit. The secured containment must be used to store only regulated material or, if the secured containment area also houses unregulated material, the regulated material must be clearly segregated from the unregulated material as well as being appropriately labeled. A sign must be placed on the outside of the containment: "Contents: Foreign soil and/or regulated domestic soil to be handled in accordance with USDA-APHIS-PPQ Soil Permit and/or Compliance Agreement". As long as untreated regulated soil is present, the containment and all other affected area(s) of the facility must be restricted to access by authorized personnel only. Labeling must be sufficient to readily provide for recognition of the regulated material by emergency response personnel who have the potential to affect the security of the containment as a result of their activities. Permittee is encouraged to interact with local emergency response personnel to acquaint them with all pertinent information relative to the materials regulated under this CA and associated soil permit.
4. Shipping containers and other materials associated with the shipment must be decontaminated by one of the approved treatment methods for soil (see #5 below) or destroyed by incineration.
5. All soil residues must be dry-heated, incinerated, hydroclaved or autoclaved or any other procedure approved by the Deputy Administrator.

A. For Dry Heat Treatment: use one of the following schedules:

110-120.5 degrees C (230-249 F) for 16 hours
121-154 degrees C (250-309 F) for 2 hours
154.4-192.5 degrees C (310-379 F) for 30 minutes
193-220 degrees C (380-429 F) for 4 minutes
221-232 degrees C (430-450 F) for 2 minutes

Time starts when the entire sample reaches the required temperature, and a suitable temperature probe must be used for verification.

B. Autoclave soil and other material using the following conditions:

- i. Soil must be autoclaved at 121 degrees Centigrade (250 degrees Fahrenheit) for a minimum of 30 minutes at 15 psi.
- ii. Autoclave tape or other indicators must be placed on each bag or sharps container prior to treatment. The autoclave tape or other indicator on each container must be checked to verify color

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

- iii. The autoclave log must be completed by each user for each autoclave cycle. All parameters must be noted as listed on the log for each autoclave load.
 - iv. If the autoclave does not attain the minimum time and/or temperature or the autoclave tape does not change color, a notation must be made in the comment section of the autoclave log. The load must then be re-autoclaved after placing new tape on the material. If minimum time and temperature is not attained on the second cycle, the user must contact the person responsible for maintaining the unit to initiate repairs. Waste can also be transferred for treatment with a functional autoclave at another facility that is approved by USDA, in accordance with #5 under "Standard Conditions" above. Contact your local PPQ office.
 - v. Thermometers on the autoclave must be calibrated annually, and a written record must be maintained. This must be done by an authorized autoclave service company during routine servicing.
 - vi. Every 6 months, you must use a commercially available test indicator kit that uses bacterial spores *Bacillus stearothermophilus* that are rendered unviable at 250 degrees F or 121 degrees C. For the test, ampules of *B. stearothermophilus* are autoclaved along with a load of waste. Upon completion of the cycle, the ampules are incubated for 48 hours and then observed for any sign of growth, which indicates insufficient sterilization. If any growth is observed, you must have the autoclave serviced and retested.
- C. Hydroclave soil and other material using the following conditions:
- i. Soil must be hydroclaved at 121 degrees Centigrade (250 degrees Fahrenheit) for a minimum of 30 minutes, or at 132 degrees Centigrade (267 degrees Fahrenheit) for a minimum of 15 minutes.
 - ii. Hydroclaves vary; therefore, the manufacturer's recommendations for hydroclave usage and maintenance must be followed, and these instructions must be readily available for review by PPQ.
 - iii. The hydroclave log must be completed by each user for each hydroclave cycle. All parameters must be noted as listed on the log for each hydroclave load.
 - iv. Observe the temperature sensor to ensure that the hydroclave maintains its required temperature. If the required temperature is not attained, you must contact the person responsible for maintaining the unit to initiate repairs. In the interim, waste must be treated either by an alternate treatment method, or transferred for treatment to another PPQ inspected facility, in accordance with #5 under "Standard Conditions" above.
- D. Incineration: With the exception of metal and glass containers, all regulated and associated material must be reduced completely to ash at the end of the incineration cycle.
- E. Any other procedure approved by the Deputy Administrator.

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

6. All water residues (effluent) from the processing of soil samples must be boiled dry, as long as doing so is not a violation of EPA regulations or any other health and safety standard, or treated by an approved treatment/sterilization procedure, such as those listed in #5 above. If boiled dry, the vessel used to boil away the effluent must be treated as any other equipment or supplies that have contacted the soil (see #7 below), and any residue left in the vessel must be treated by an approved treatment/sterilization procedure (see #5 above).

7. Equipment and supplies used to conduct operations or that have contacted the soil must be decontaminated using one of the following methods:

(a) Material can be soaked in a fresh household bleach solution of 10 percent for at least 30 minutes

(b) Material can be soaked in a minimum of 70 percent ethanol

(c) Flamed with ethanol

(d) Treated with quaternary ammonium compounds.

Note that autoclave, hydroclave, incineration, and dry heat sterilization are also acceptable sterilization/decontamination methods.

8. When the laboratory has control over the collection of soil samples, they must inform the collectors that equipment and hand tools used for collecting soil samples in areas subject to Federal and/or State cooperative domestic plant quarantines must be thoroughly cleaned of all soil residues at the collection site.

9. In the event Permittee receives foreign soil or regulated domestic soil with a contaminant (e.g. heavy metals like lead, mercury etc.) that prevents the regulated soil from being decontaminated by dry heat, hydroclave or autoclave and requires a disposal site such as an incinerator or landfill (subject to all applicable local, state, and federal regulations), such site must have a valid USDA, APHIS, PPQ Soil Permit and Compliance Agreement for foreign soil or a valid Compliance Agreement for regulated domestic soil, respectively. Prior written approval from the local USDA, APHIS, PPQ office is required before movement of the soil samples to an approved disposal site.

10. All unconsumed soil, containers and effluent are to be autoclaved, incinerated or properly sterilized by Permittee at the conclusion of the project as approved and prescribed by the CA and permit conditions.

11. Permittee must maintain a valid Soil Permit and/or Compliance Agreement for soil samples to be retained for permanent study or research collections. For continuous possession a soil permit can be renewed by reapplying at least three months before the current permit expires.

To reapply for permit, see "Soil Permit application/renewal procedure and the transition to ePermits" from the Supplemental information attachment.

12. Untreated regulated soil may only be used as growing media under controlled laboratory conditions and in controlled access growth chambers where: 1) access to the regulated soil, lab, and growth chamber is limited to trained authorized personnel; 2) all soil can be contained and recovered for

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

Continuation of Section 5: General Stipulations

decontamination; 3) all effluent including irrigation discharge from the regulated soil can be contained, recovered, and decontaminated; and 4) all contaminated surfaces (including tubing) can be decontaminated. Restricted access and regulated status of the soil must be indicated by appropriate signage. Untreated regulated soil cannot be used as growing media in greenhouses, field trials, or in any release into the environment.

13. Exact records must be kept and made available upon each visit that USDA, APHIS, PPQ or the PA State Department of Agriculture makes to [Name of CO] regarding:

- (1) Date of arrival of each shipment,
- (2) Origin of the soil
- (3) Total amount of soil in each shipment
- (4) Date and amount of soil used for testing purposes
- (5) Date and amount of disposed soil and amount of any remainder
- (6) For transfers of foreign soil - date, amount of soil, and copies of permit and compliance agreement of other party.
- (7) For transfers of regulated domestic soil - date, amount of soil, and copy of compliance agreement of other party.

Standard Operating Procedure (SOP):

1. Permittee at Eurofins Lancaster Laboratories Environment Testing, LLC must prepare a standard operating procedure (SOP) demonstrating compliance with the USDA, APHIS PPQ regulations in terms of handling, storing, safeguarding, transporting, and disposing of foreign soil or effluent, regulated domestic soil or effluent, used shipping containers, equipment and other contact waste. The SOP must contain instructions regarding the cleanup of potential spillage of regulated soil, the subsequent decontamination of affected surfaces, and the sterilization of glassware and equipment. The SOP must be posted in areas where soil is stored and where soil is processed. The SOP may be required at the time of inspection.
2. Permittee at Eurofins Lancaster Laboratories Environment Testing, LLC must present a training program to all employees involved in the process of handling, storing, safeguarding, transporting, and disposing of the regulated soil in accordance with USDA APHIS PPQ regulations. Training must include policy/instructions detailed in the stipulation and conditions in your PPQ 525, the compliance agreement, and the SOP; each employee must know where the SOP is posted. Training must be completed before employees are permitted access to the regulated soil in order to process, safeguard, treat, or dispose. All employees handling regulated soil must be trained annually. Records of all training administered to employees (name and dates) shall be made available to USDA, APHIS, PPQ or PA State Regulatory personnel upon request.
3. Records relating to a sample must be retained and made available for inspection upon request by USDA-APHIS-PPQ and/or the PDA for a period of 3 years following the

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

Continuation of Section 5: General Stipulations

Form Approved
OMB Number 0579-0054

decontamination/sterilization or transfer to another permitted establishment/individual. Records related to training must be retained for 3 years from the date of the records.

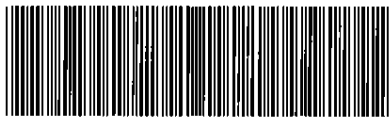
4. With Kenneth Boley's signature, Permittee is responsible for compliance with all conditions on the Soil Permit and the Compliance Agreement. This also includes all personnel he/she directly supervises who may be involved with the regulated domestic and/or foreign soil. In the event Permittee is no longer working in this capacity for Eurofins Lancaster Laboratories Environment Testing, LLC either Permittee or Eurofins Lancaster Laboratories Environment Testing, LLC must immediately notify USDA, APHIS, PPQ of this change.

This agreement may be immediately canceled or revoked for noncompliance. Violation of these Federal regulations can result in a criminal penalty of up to a \$5,000 fine, one year in jail, or both, or a civil penalty of up to \$1,000 per violation.

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

Attachment to PPQ FORM 519 (SEP 2012)

Initial/Date KCB 1/19/2023



onme

Chain of Custody Record



Environment Testing

410-164461-01 Chain of Custody		Sampler: NW		Lab PM: Luciano, Natalie R		Carrier Tracking No(s):		COC No: 410-117121-30077 1					
Client Contact: Nick Wyckoff		Phone: 203 952 2933		E-Mail: Natalie.Luciano@et.eurofinsus.com		State of Origin:		Page: Page 1 of 1					
Company: Tidewater Inc.		PWSID:		Analysis Requested						Job #:			
Address: 3761 Attucks Drive		Due Date Requested: See email communication		Field Filtered Sample (Yes or No) Moisture 1633-0005						Preservation Codes			
City: Powell		TAT Requested (days): See email communication								Other:			
State, Zip: OH 43065		Compliance Project: ☐ Yes ☐ No											
Phone: 203-952-2933(Tel)		PO #: Purchase Order Requested											
Email: nick.wyckoff@tideh2o.net		WO #:											
Project Name: Niagara Falls ARS		Project #: 41017504		Total Number of containers						Special Instructions/Note.			
Site: Shelby Crushed Stone		SSOW#:											
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Al)								
NFARSF III - SCS		3/18/24	1130	C	S	X X						2	
Possible Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
Deliverable Requested I II III IV Other (specify)						☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months							
Empty Kit Relinquished by		Date:		Time		Method of Shipment							
Relinquished by: Nick Wyckoff		Date/Time: 3/18/24 1304		Company: TW		Received by:		Date/Time:		Company:			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:			
Relinquished by:		Date/Time:		Company:		Received by: J.M.		Date/Time: 3/19/24 1055		Company: EUBT			
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: 12.10 C.I.O.									

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control numbers for this information collection are 0579-0054, 0088, 0129, 0198, 0257, 0310, 0317, 0322, 0337, 0346, 0363, and 0369. The time required to complete this information collection is estimated to average 1.25 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

OMB APPROVED
0579-0054/0088/0129/
0198/0257/0310/0317/
0322/0337/0346/0363/
0369

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE
PLANT PROTECTION AND QUARANTINE

COMPLIANCE AGREEMENT

1. NAME AND MAILING ADDRESS OF PERSON OR FIRM

Kenneth Boley
Eurofins Lancaster Laboratories Environment Testing,
LLC
2425 New Holland Pike, Lancaster, PA 17601
717-556-9413
Kenneth.Boley@et.eurofinsus.com

2. LOCATION

Same.



410-164461-02 Chain of Custody

3. REGULATED ARTICLE(S)

Non-sterilized Foreign soil; or Foreign & Regulated Domestic soil; or Domestic soil (HI and/or U.S. territories) - ANALYSIS

4. APPLICABLE FEDERAL QUARANTINE(S) OR REGULATIONS

7 CFR 330, 7 CFR 318.60, and 7 CFR 301

5. I/WE AGREE TO THE FOLLOWING:

I. Transfer and Noncompliance

- A. This agreement may be immediately cancelled or revoked for noncompliance.
- B. This compliance agreement is non-transferable.
- C. Any person who knowingly violates the Plant Protection Act (PPA) (7 U.S.C. 7701 et seq.) and/or the Animal Health Protection Act (AHPA) (7 U.S.C. 8301 et. seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, a one-year prison term or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$250,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

II. Procedures, protocols and limitations established in 'General Stipulations' (attached).

6. SIGNATURE

Kenneth Boley

7. TITLE

Quality Assurance Mgr.

8. DATE SIGNED

1/19/2023

9. AGREEMENT NO.

Philadelphia 23

The affixing of the signatures below will validate this agreement which shall remain in effect until cancelled, but may be revised as necessary or revoked for noncompliance.

10. DATE OF AGREEMENT

01/19/2023

11. PPQ/CBP OFFICIAL (NAME AND TITLE)

Mara Connor, PHSS/PPQ Officer

12. ADDRESS

United States Custom House
USDA APHIS PPQ
200 Chestnut St. Suite 242A
Philadelphia, PA 19106

13. SIGNATURE

Mara Connor

14. U.S. GOVERNMENT/STATE AGENCY OFFICIAL (NAME AND TITLE)

United States Department of Agriculture

16. SIGNATURE

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE
PLANT PROTECTION AND QUARANTINE PROGRAMS
Compliance Agreement

This Compliance Agreement (CA) supplements the PPQ 525 Soil Permit; and Kenneth Boley, Eurofins Lancaster Laboratories Environment Testing, LLC (hereinafter referred to as Permittee), must meet all the terms and conditions as stated on the CA and Permit documents. Although Permittee is signing the Compliance Agreement today, authorization to receive foreign soil is not granted until an official PPQ 525 soil permit from the USDA-APHIS-PPQ, Permit Services, Riverdale, Maryland, is issued to Permittee. By signing this compliance agreement you agree to adhere to the conditions hereby stipulated to receive regulated soil.

Authorization:

This Compliance Agreement authorizes Permittee of Eurofins Lancaster Laboratories Environment Testing, LLC receive untreated regulated DOMESTIC and/or FOREIGN soil for **chemical/physical analysis**.

NOTE: Neither this CA nor a PPQ 525 permit authorizes receipt of untreated regulated soil that has been imported and/or moved domestically across state lines for the purpose of isolation of a living organism, or for extracting and concentrating organisms from the soil. Further it is not authorized for use in field research or release into the environment before treatment. Authorization to receive soil for biological purposes requires a separate PPQ 526 permit (application can be submitted via ePermits and your local USDA-APHIS-PPQ office can provide assistance and direction regarding the application process – see the Supplementary Information Attachment).

Standard Conditions:

1. Activation of this CA requires the signature of Permittee. However, authorization to receive regulated soil is not granted until: 1) notification is received that the State Plant Regulatory Official or designee from the PDA Department of Agriculture (PDA) and the USDA-APHIS-PPQ State Plant Health Director (SPHD) or designee have approved and signed the CA; and 2) the official PPQ 525 permit has been received from the USDA-APHIS-PPQ, Pest Permit Services, Riverdale, Maryland.
2. Compliance Agreements and Soil Permits are non-transferable. Permittee must maintain an official permanent work assignment at the address identified on this CA. If Permittee ceases assignment/affiliation at the address identified on this CA, then the local PPQ office must be notified immediately (that is, within one business day) by either (a) Mara.Connor@usda.gov (b)

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

Continuation of Section 5: General Stipulations

(267) 278-8557 c) USDA APHIS PPQ United States Custom House 200 Chestnut Street Philadelphia, PA 19106. Permittee must also contact the USDA-APHIS-PPQ permitting office at (215) 218-4972. Should Permittee depart from the organization/facility, Permittee will either (a) request cancellation of both the CA and the permit, and comply with all permit-specific termination conditions, (b) apply for and receive a permit to move the soil to a new facility, or (c) relinquish control of the regulated soil to a qualified individual who obtained a permit and CA for the continued use of this regulated soil prior to this permit holder's departure. Go to the Permits website at: (http://www.aphis.usda.gov/plant_health/permits/index.shtml) to apply for an ePermits account to initiate the process. Your local USDA-APHIS-PPQ office can provide direction – (see the Supplementary Information Attachment).

3. This compliance agreement called Philadelphia 23, is valid for the life of the permit issued by APHIS-PPQ.
4. If the regulated soil is to be used by other persons within the same organization, those persons must be under the Permittee's supervision and have received the training specified in #2 below under "Standard Operating Procedure." Otherwise, they must apply for their own permit. Notification to this office may help facilitate such circumstance(s).
5. Transfers of untreated regulated soil require prior written authorization from the local PPQ and state office. This approval comes from the local PPQ office of the State Plant Health Director (SPHD) and the State Plant Regulatory Official (SPRO) of the PA Department of Agriculture (PDA). Such transfer must be done at a facility that is inspected and authorized by USDA-APHIS-PPQ.
6. Without prior notice and during reasonable hours, authorized PPQ and/or State regulatory officials shall be allowed to inspect the conditions associated with the regulated soil authorized under this compliance agreement/permit.
7. Prior to preparing soil for shipment, Permittee must inform shippers to address the soil shipment exactly as it is written on the soil permit and Compliance Agreement and supply a copy of the soil permit to be included with the shipment.
8. All shipments of foreign soil must be shipped by bonded carrier from the port of arrival or Hand-Carried* from the port of arrival directly to Permittee at Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike Lancaster, PA 17601. All shipments of regulated domestic soil must be shipped by bonded carrier to Permittee at Eurofins Lancaster Laboratories Environment Testing, LLC 2425 New Holland Pike Lancaster, PA 17601.

*NOTE: APHIS PPQ may authorize hand-carry of imported soil under the PPQ 525 Soil import permit process on a case by case basis. This change will ensure APHIS policy pertaining to soil importations are consistent with the unique and most recent sanitary/phytosanitary requirements to mitigate risks involved in regulating soil movement. Denial of a hand carry request will not be reason to deny issuance of a permit to move soil by other approved means.

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

Hand carry event is granted only if it is specifically provided for by permit. **However, hand carry is not allowed for bulk shipment of soil intended for decontamination or landfill disposal.** If hand carry authorization is granted, you must adhere to all specific permit conditions including special label requirements pertaining to the hand carry event. You can find additional information on hand carry on the USDA-APHIS website at:

http://www.aphis.usda.gov/plant_health/permits/organism/soil/handcarry.shtml

9. Permittee must attach a PPQ Form 550 Black/White label to the exterior of each shipment being imported under the permit or, in the case of bulk shipment, include the label in the shipping manifest. If you are e-authenticated, you are instructed to request labels using the "My shipment/my label" option within ePermits at least 7 days in advance. Labels also may be requested by email at: BlackWhiteGreenYellow.labelrequest@aphis.usda.gov. All email requests must come from the permit holder or their authorized contact, if requested by an authorized contact the permit holder must be copied on all requests. You must specify PPQ Form 550 Black/White labels, the specific port(s) of entry and number of labels for each port when requesting labels. The requested labels will be sent to you through a bonded carrier.
10. For all shipments/transfers, the integrity of the sample identification must be preserved from the shipper's inventory records to the recipient. Shipper and recipient must maintain records that provide a traceable link with the shipper's sample identification system in order to preserve the integrity of the sample identification from the shipper to eventual sample destruction.

For example, if the shipper transfers a sample designated ABC and the recipient logs it in to his/her inventory system as sample 123, the recipient must maintain and provide to the shipper a record that cross references the sample identifications. An inspector must be able to review the recipient's records and be able to trace them back to the shipper's sample numbers. If the recipient ultimately transfers the regulated material to an alternate USDA approved facility, the integrity of the sample identification must be maintained throughout the transfer process and any subsequent transfers.

Records for each shipment should include the weight, general composition, shipper, shipment origin, and final disposition. Upon request, records of all untreated regulated soil shipments (soil received, soil disposed, and soil transferred) must be available to USDA-APHIS-PPQ and/or the PDA.

Safeguarding Conditions:

1. Soil shall be shipped in a securely closed, watertight container (primary container, test tube, vial, etc.) which shall be enclosed in a second, durable watertight container (secondary container).
2. All regulated soil must be safeguarded through all storage/processing/ decontamination procedures in the authorized facility (and during the transfer from processing point to a detached room for

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

sterilization if this method is used) until sterilized by one of the treatment methods specified (See #5 below). The same applies if the soil is to be transferred to another facility that is inspected and authorized by USDA-APHIS to receive soil. A list of facilities inspected by USDA-APHIS to receive foreign and interstate (domestic) soil samples can be accessed at:
<https://web01.aphis.usda.gov/PPQ/AuthSoilLabs.nsf/web?openform>

3. Upon arrival at the authorized facility the regulated material will be stored at all times in secured containment until transferred or decontaminated. Each stored sample must be labeled as regulated material under USDA Permit. The secured containment must be used to store only regulated material or, if the secured containment area also houses unregulated material, the regulated material must be clearly segregated from the unregulated material as well as being appropriately labeled. A sign must be placed on the outside of the containment: "Contents: Foreign soil and/or regulated domestic soil to be handled in accordance with USDA-APHIS-PPQ Soil Permit and/or Compliance Agreement". As long as untreated regulated soil is present, the containment and all other affected area(s) of the facility must be restricted to access by authorized personnel only. Labeling must be sufficient to readily provide for recognition of the regulated material by emergency response personnel who have the potential to affect the security of the containment as a result of their activities. Permittee is encouraged to interact with local emergency response personnel to acquaint them with all pertinent information relative to the materials regulated under this CA and associated soil permit.
4. Shipping containers and other materials associated with the shipment must be decontaminated by one of the approved treatment methods for soil (see #5 below) or destroyed by incineration.
5. All soil residues must be dry-heated, incinerated, hydroclaved or autoclaved or any other procedure approved by the Deputy Administrator.

A. For Dry Heat Treatment: use one of the following schedules:

110-120.5 degrees C (230-249 F) for 16 hours
121-154 degrees C (250-309 F) for 2 hours
154.4-192.5 degrees C (310-379 F) for 30 minutes
193-220 degrees C (380-429 F) for 4 minutes
221-232 degrees C (430-450 F) for 2 minutes

Time starts when the entire sample reaches the required temperature, and a suitable temperature probe must be used for verification.

B. Autoclave soil and other material using the following conditions:

- i. Soil must be autoclaved at 121 degrees Centigrade (250 degrees Fahrenheit) for a minimum of 30 minutes at 15 psi.
- ii. Autoclave tape or other indicators must be placed on each bag or sharps container prior to treatment. The autoclave tape or other indicator on each container must be checked to verify color

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

- iii. The autoclave log must be completed by each user for each autoclave cycle. All parameters must be noted as listed on the log for each autoclave load.
- iv. If the autoclave does not attain the minimum time and/or temperature or the autoclave tape does not change color, a notation must be made in the comment section of the autoclave log. The load must then be re-autoclaved after placing new tape on the material. If minimum time and temperature is not attained on the second cycle, the user must contact the person responsible for maintaining the unit to initiate repairs. Waste can also be transferred for treatment with a functional autoclave at another facility that is approved by USDA, in accordance with #5 under "Standard Conditions" above. Contact your local PPQ office.
- v. Thermometers on the autoclave must be calibrated annually, and a written record must be maintained. This must be done by an authorized autoclave service company during routine servicing.
- vi. Every 6 months, you must use a commercially available test indicator kit that uses bacterial spores *Bacillus stearothermophilus* that are rendered unviable at 250 degrees F or 121 degrees C. For the test, ampules of *B. stearothermophilus* are autoclaved along with a load of waste. Upon completion of the cycle, the ampules are incubated for 48 hours and then observed for any sign of growth, which indicates insufficient sterilization. If any growth is observed, you must have the autoclave serviced and retested.

C. Hydroclave soil and other material using the following conditions:

- i. Soil must be hydroclaved at 121 degrees Centigrade (250 degrees Fahrenheit) for a minimum of 30 minutes, or at 132 degrees Centigrade (267 degrees Fahrenheit) for a minimum of 15 minutes.
- ii. Hydroclaves vary; therefore, the manufacturer's recommendations for hydroclave usage and maintenance must be followed, and these instructions must be readily available for review by PPQ.
- iii. The hydroclave log must be completed by each user for each hydroclave cycle. All parameters must be noted as listed on the log for each hydroclave load.
- iv. Observe the temperature sensor to ensure that the hydroclave maintains its required temperature. If the required temperature is not attained, you must contact the person responsible for maintaining the unit to initiate repairs. In the interim, waste must be treated either by an alternate treatment method, or transferred for treatment to another PPQ inspected facility, in accordance with #5 under "Standard Conditions" above.

D. Incineration: With the exception of metal and glass containers, all regulated and associated material must be reduced completely to ash at the end of the incineration cycle.

E. Any other procedure approved by the Deputy Administrator.

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

6. All water residues (effluent) from the processing of soil samples must be boiled dry, as long as doing so is not a violation of EPA regulations or any other health and safety standard, or treated by an approved treatment/sterilization procedure, such as those listed in #5 above. If boiled dry, the vessel used to boil away the effluent must be treated as any other equipment or supplies that have contacted the soil (see #7 below), and any residue left in the vessel must be treated by an approved treatment/sterilization procedure (see #5 above).
7. Equipment and supplies used to conduct operations or that have contacted the soil must be decontaminated using one of the following methods:

- (a) Material can be soaked in a fresh household bleach solution of 10 percent for at least 30 minutes
- (b) Material can be soaked in a minimum of 70 percent ethanol
- (c) Flamed with ethanol
- (d) Treated with quaternary ammonium compounds.

Note that autoclave, hydroclave, incineration, and dry heat sterilization are also acceptable sterilization/decontamination methods.

8. When the laboratory has control over the collection of soil samples, they must inform the collectors that equipment and hand tools used for collecting soil samples in areas subject to Federal and/or State cooperative domestic plant quarantines must be thoroughly cleaned of all soil residues at the collection site.
9. In the event Permittee receives foreign soil or regulated domestic soil with a contaminant (e.g. heavy metals like lead, mercury etc.) that prevents the regulated soil from being decontaminated by dry heat, hydroclave or autoclave and requires a disposal site such as an incinerator or landfill (subject to all applicable local, state, and federal regulations), such site must have a valid USDA, APHIS, PPQ Soil Permit and Compliance Agreement for foreign soil or a valid Compliance Agreement for regulated domestic soil, respectively. Prior written approval from the local USDA, APHIS, PPQ office is required before movement of the soil samples to an approved disposal site.
10. All unconsumed soil, containers and effluent are to be autoclaved, incinerated or properly sterilized by Permittee at the conclusion of the project as approved and prescribed by the CA and permit conditions.
11. Permittee must maintain a valid Soil Permit and/or Compliance Agreement for soil samples to be retained for permanent study or research collections. For continuous possession a soil permit can be renewed by reapplying at least three months before the current permit expires.

To reapply for permit, see "Soil Permit application/renewal procedure and the transition to ePermits" from the Supplemental information attachment.

12. Untreated regulated soil may only be used as growing media under controlled laboratory conditions and in controlled access growth chambers where: 1) access to the regulated soil, lab, and growth chamber is limited to trained authorized personnel; 2) all soil can be contained and recovered for

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

Continuation of Section 5: General Stipulations

decontamination; 3) all effluent including irrigation discharge from the regulated soil can be contained, recovered, and decontaminated; and 4) all contaminated surfaces (including tubing) can be decontaminated. Restricted access and regulated status of the soil must be indicated by appropriate signage. Untreated regulated soil cannot be used as growing media in greenhouses, field trials, or in any release into the environment.

13. Exact records must be kept and made available upon each visit that USDA, APHIS, PPQ or the PA State Department of Agriculture makes to [Name of CO] regarding:

- (1) Date of arrival of each shipment,
- (2) Origin of the soil
- (3) Total amount of soil in each shipment
- (4) Date and amount of soil used for testing purposes
- (5) Date and amount of disposed soil and amount of any remainder
- (6) For transfers of foreign soil - date, amount of soil, and copies of permit and compliance agreement of other party.
- (7) For transfers of regulated domestic soil - date, amount of soil, and copy of compliance agreement of other party.

Standard Operating Procedure (SOP):

1. Permittee at Eurofins Lancaster Laboratories Environment Testing, LLC must prepare a standard operating procedure (SOP) demonstrating compliance with the USDA, APHIS PPQ regulations in terms of handling, storing, safeguarding, transporting, and disposing of foreign soil or effluent, regulated domestic soil or effluent, used shipping containers, equipment and other contact waste. The SOP must contain instructions regarding the cleanup of potential spillage of regulated soil, the subsequent decontamination of affected surfaces, and the sterilization of glassware and equipment. The SOP must be posted in areas where soil is stored and where soil is processed. The SOP may be required at the time of inspection.
2. Permittee at Eurofins Lancaster Laboratories Environment Testing, LLC must present a training program to all employees involved in the process of handling, storing, safeguarding, transporting, and disposing of the regulated soil in accordance with USDA APHIS PPQ regulations. Training must include policy/instructions detailed in the stipulation and conditions in your PPQ 525, the compliance agreement, and the SOP; each employee must know where the SOP is posted. Training must be completed before employees are permitted access to the regulated soil in order to process, safeguard, treat, or dispose. All employees handling regulated soil must be trained annually. Records of all training administered to employees (name and dates) shall be made available to USDA, APHIS, PPQ or PA State Regulatory personnel upon request.
3. Records relating to a sample must be retained and made available for inspection upon request by USDA-APHIS-PPQ and/or the PDA for a period of 3 years following the

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

Continuation of Section 5: General Stipulations

Form Approved
OMB Number 0579-0054

decontamination/sterilization or transfer to another permitted establishment/individual. Records related to training must be retained for 3 years from the date of the records.

4. With Kenneth Boley's signature, Permittee is responsible for compliance with all conditions on the Soil Permit and the Compliance Agreement. This also includes all personnel he/she directly supervises who may be involved with the regulated domestic and/or foreign soil. In the event Permittee is no longer working in this capacity for Eurofins Lancaster Laboratories Environment Testing, LLC either Permittee or Eurofins Lancaster Laboratories Environment Testing, LLC must immediately notify USDA, APHIS, PPQ of this change.

This agreement may be immediately canceled or revoked for noncompliance. Violation of these Federal regulations can result in a criminal penalty of up to a \$5,000 fine, one year in jail, or both, or a civil penalty of up to \$1,000 per violation.

Any person who knowingly violates the Plant Protection Act (PPA) (7U.S.C. §§ 7701 et. Seq.) and/or the Animal Health Protection Act (AHPA) (7U.S.C. §§ 8301 et. Seq.) may be criminally prosecuted and found guilty of a misdemeanor which can result in penalties, and one year prison term, or both. Additionally, any person violating the PPA and/or the AHPA may be assessed civil penalties of up to \$300,000 per violation or twice the gross gain or gross loss for any violation that results in the person deriving pecuniary gain or causing pecuniary loss to another, whichever is greater.

Attachment to PPQ FORM 519 (SEP 2012)

Initial/Date KCB 1/19/2023

Login Sample Receipt Checklist

Client: Tidewater Inc.

Job Number: 410-164461-1

Login Number: 164461

List Number: 1

Creator: Santiago, Nathaniel

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	