

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2201745910
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Shelby Pennington	Contact Telephone 281-723-9353
Contact email shelby.g.pennington@exxonmobil.com	Incident # (assigned by OCD)
Contact mailing address 6401 Holiday Hill Rd Bldg 5, Midland, Texas, 79707	

Location of Release Source

Latitude 32.23708 Longitude -103.91491
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Poker Lake Unit 223	Site Type Flow Line
Date Release Discovered 01/03/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
A	07	24S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 7.44	Volume Recovered (bbls) 0.00
☒ Produced Water	Volume Released (bbls) 9.10	Volume Recovered (bbls) 0.00
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Corrosion caused a flow line to release fluids to soil. No fluids were recovered. A third-party contractor has been retained for remediation purposes.

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.	
☒ The impacted area has been secured to protect human health and the environment.	
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: NA	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Shelby G. Pennington	Title: Environmental Manager
Signature: 	Date: 1/14/22
email: shelby.g.pennington@exxonmobil.com	Telephone: 281-723-9353
<u>OCD Only</u>	
Received by: Ramona Marcus	Date: 1/18/2022

NAPP2201745910

Location:	Poker Lake Unit 223 Flow Line	
Spill Date:	1/3/2022	
Area 1		
Approximate Area =	2786.00	sq. ft.
Average Saturation (or depth) of spill =	2.00	inches
Average Porosity Factor =	0.20	
VOLUME OF LEAK		
Total Crude Oil =	7.44	bbls
Total Produced Water =	9.10	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	7.44	bbls
Total Produced Water =	9.10	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	0.00	bbls
Total Produced Water =	0.00	bbls

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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 72866

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 72866
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	1/18/2022

Incident ID	NAPP2201745910
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☒ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Garrett Green Title: Environmental Coordinator

Signature:  Date: 07/02/2022

email: garrett.green@exxonmobil.com Telephone: 575-200-0729

OCD Only

Received by: _____ Date: _____

Incident ID	NAPP2201745910
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Garrett Green Title: Environmental Coordinator

Signature:  Date: 07/02/2022

email: garrett.green@exxonmobil.com Telephone: 575-200-0729

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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Energy Minerals and Natural
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Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2204945328
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Adrian Baker	Contact Telephone 432-236-3808
Contact email adrian.baker@exxonmobil.com	Incident # (assigned by OCD)
Contact mailing address 6401 Holiday Hill Rd Bldg 5, Midland, Texas, 79707	

Location of Release Source

Latitude 32.23705 Longitude -103.91490
(NAD 83 in decimal degrees to 5 decimal places)

Site Name PLU 223	Site Type Production Well
Date Release Discovered 02/04/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
A	07	24S	30E	EDDY

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 11.69	Volume Recovered (bbls) 0.00
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

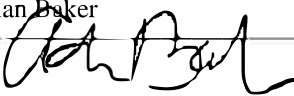
Cause of Release Corrosion caused fluids to release from the flowline. A third-party contractor has been retained for remediation purposes.

Incident ID	NAPP2204945328
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Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.	
☒ The impacted area has been secured to protect human health and the environment.	
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: NA	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Adrian Baker	Title: SSHE Coordinator
Signature: 	Date: 2/18/22
email: adrian.baker@exxonmobil.com	Telephone: 432-236-3808
<u>OCD Only</u>	
Received by: Ramona Marcus	Date: 2/21/2022

NAPP2204945328

Location:	PLU 223	
Spill Date:	2/4/2022	
Area 1		
Approximate Area =	1750.00	sq. ft.
Average Saturation (or depth) of spill =	3.00	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	11.69	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	11.69	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	0.00	bbls
Total Produced Water =	0.00	bbls

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 82679

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 82679
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	2/21/2022

Incident ID	NAPP2204945328
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☒ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

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Printed Name: Garrett Green Title: Environmental Coordinator

Signature:  Date: 07/02/2022

email: garrett.green@exxonmobil.com Telephone: 575-200-0729

OCD Only

Received by: _____ Date: _____

Incident ID	NAPP2204945328
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Garrett Green Title: Environmental Coordinator

Signature:  Date: 07/02/2022

email: garrett.green@exxonmobil.com Telephone: 575-200-0729

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 08/22/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

District I
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Energy Minerals and Natural
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Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2205343597
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Adrian Baker	Contact Telephone 432-236-3808
Contact email adrian.baker@exxonmobil.com	Incident # (assigned by OCD)
Contact mailing address 6401 Holiday Hill Rd Bldg 5, Midland, Texas, 79707	

Location of Release Source

Latitude 32.23688 Longitude -103.91502
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Poker Lake Unit 223 Flow Line	Site Type Production Well
Date Release Discovered 02/08/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
A	07	24S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 0.84	Volume Recovered (bbls) 0.00
☒ Produced Water	Volume Released (bbls) 6.80	Volume Recovered (bbls) 0.00
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

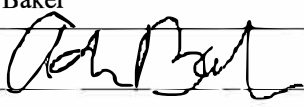
Cause of Release A clamp installed on the flowline failed, releasing fluids to soil. A third party contractor has been retained for remediation purposes.

Incident ID	NAPP2205343597
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.	
☒ The impacted area has been secured to protect human health and the environment.	
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: NA	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Adrian Baker	Title: SSHE Coordinator
Signature: 	Date: 2/21/22
email: adrian.baker@exxonmobil.com	Telephone: 432-236-3808
<u>OCD Only</u>	
Received by: Ramona Marcus	Date: 02/22/2022

NAPP2205343597

Location:	Poker Lake Unit 223 Flow Line	
Spill Date:	2/8/2022	
Area 1		
Approximate Area =	858.00	sq. ft.
Average Saturation (or depth) of spill =	4.00	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	0.84	bbls
Total Produced Water =	6.80	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	0.84	bbls
Total Produced Water =	6.80	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	0.00	bbls
Total Produced Water =	0.00	bbls

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 83224

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 83224
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	2/22/2022

Incident ID	NAPP2205343597
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☒ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAPP2205343597
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Garrett Green Title: Environmental Coordinator

Signature:  Date: 07/02/2022

email: garrett.green@exxonmobil.com Telephone: 575-200-0729

OCD Only

Received by: _____ Date: _____

Incident ID	NAPP2205343597
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Garrett Green Title: Environmental Coordinator

Signature:  Date: 07/02/2022

email: garrett.green@exxonmobil.com Telephone: 575-200-0729

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



July 1, 2022

District II
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210

**Re: Closure Request
Poker Lake Unit 223
Incident Number NAPP2201745910, NAPP2204945328, and NAPP2205343597
Eddy County, New Mexico**

To Whom it May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this Closure Request to document site assessment, excavation, and soil sampling activities performed at the Poker Lake Unit (PLU) 223 (Site). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from three separate releases of crude oil and produced water onto pasture land adjacent to the Site. Based on the excavation activities and analytical results from the soil sampling events, XTO is submitting this Closure Request, describing remediation that has occurred and requesting closure for the following Incident Numbers NAPP2201745910, NAPP2204945328, and NAPP2205343597.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 7, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.23688° N, 103.91502° W) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land.

Incident Number NAPP2201745910

On January 3, 2022, corrosion of a flow line resulted in the release of approximately 7.44 barrels (bbls) of crude oil and 9.10 bbls of produced water onto the surrounding pasture area. No released fluids were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on January 14, 2022. The release was assigned Incident Number NAPP2201745910.

Incident Number NAPP2204945328

On February 4, 2022, corrosion of a flow line resulted in the release of approximately 11.69 bbls of produced water onto the same pasture area. No released fluids were recovered. XTO reported the release to the NMOCD on a Form C-141 on February 18, 2022. The release was assigned Incident Number NAPP2204945328.

Incident Number NAPP2205343597

On February 8, 2022, the clamp placed on the corroded flow line failed, resulting in the release of approximately 0.84 bbls of crude oil and 6.8 bbls of produced water onto the same pasture area. No released fluids were recovered. XTO reported the release to the NMOCD on a Form C-141 on February 21, 2022. The release was assigned Incident Number NAPP2205343597.

The three release areas overlapped and were addressed concurrently.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. During May 2021, a soil boring (C-4526) was drilled approximately 0.5 miles northwest of the Site utilizing a track-mounted hollow-stem auger rig. Soil boring C-4526 was drilled to a depth of 105 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater was greater than 105 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent riverine, located approximately 3,500 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation standard of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On February 18, 2022, site assessment activities were conducted to evaluate the release extents based on information provided on the Form C-141 and visual observations. All three releases occurred in the

same pasture area southwest of the Site. Eleven preliminary assessment soil samples (SS01 through SS11) were collected within and around the release extent from a depth of 0.5 feet bgs, to assess the lateral extent of the release. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for preliminary soil samples SS01 through SS05, collected within the release extent, indicated that TPH and/or chloride concentrations exceeded the reclamation standards. Laboratory analytical results for preliminary soil samples SS06 through SS11, collected around the release extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and reclamation standards, and successfully defined the lateral extent of the release. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for preliminary soil samples SS01 through SS05, delineation and excavation activities were warranted.

DELINEATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

On May 12, 2022, Ensolum personnel were at the Site to oversee delineation activities. Two potholes (PH01 and PH02) and three boreholes (BH01 through BH03) were advanced via backhoe or hand auger within the release extent to assess the vertical extent of impacted soil. The potholes and boreholes were advanced to a depth of 4 feet bgs. Delineation soil samples were collected from each pothole and borehole from depths ranging from 1-foot to 4 feet bgs. Soil from the potholes and boreholes was field screened for VOCs and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations were logged on lithologic soil sampling logs, which are included in Appendix B. The soil samples were collected, handled, and analyzed following the same procedures as described above. The delineation soil sample locations are depicted on Figure 3.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 and PH02 and boreholes BH01 through BH03 indicated that chloride concentrations exceeded the reclamation standard at depths ranging from 1-foot to 3 feet bgs. Laboratory analytical results indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria in the final delineation samples collected at 4 feet bgs from each pothole and borehole.

EXCAVATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

During June 2022, Ensolum personnel returned to the Site to oversee excavation activities as indicated by visible staining and laboratory analytical results for the preliminary and delineation soil samples. Excavation activities were performed using a hydro-vacuum, track-mounted backhoe, and transport vehicle. To direct excavation activities, soil was screened for VOCs and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to a depth of 4 feet bgs. Photographic documentation of the excavation activities is included in Appendix C.

Following removal of the impacted soil, 5-point composite soil samples were collected at least every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples were collected

by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples SW01 through SW09 were collected from the sidewalls of the excavation from depths ranging from the ground surface to 4 feet bgs. Composite soil samples FS01 through FS18 were collected from the floor of the excavation from a depth of 4 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 4.

The excavation area measured approximately 3,500 square feet. A total of approximately 720 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

Laboratory analytical results for excavation sidewall samples SW01 through SW09 and excavation floor samples FS01 through FS18 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the reclamation standards in samples collected from the top four feet of the subsurface. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment and excavation activities were conducted to address the January 3, 2022, February 4, 2022, and February 8, 2022 flow line releases of crude oil and produced water onto the surrounding pasture area. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the reclamation standards in samples collected from the top four feet of the subsurface. Additionally, the release extent was laterally delineated to the most stringent Table 1 Closure Criteria. Based on the soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. The disturbed pasture area will be re-seeded with an approved BLM seed mixture.

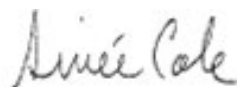
Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater is greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAPP2201745910, NAPP2204945328, and NAPP2205343597.

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or acole@ensolum.com.

Sincerely,
Ensolum, LLC



Ben Bellil
Project Geologist



Aimee Cole
Senior Managing Scientist

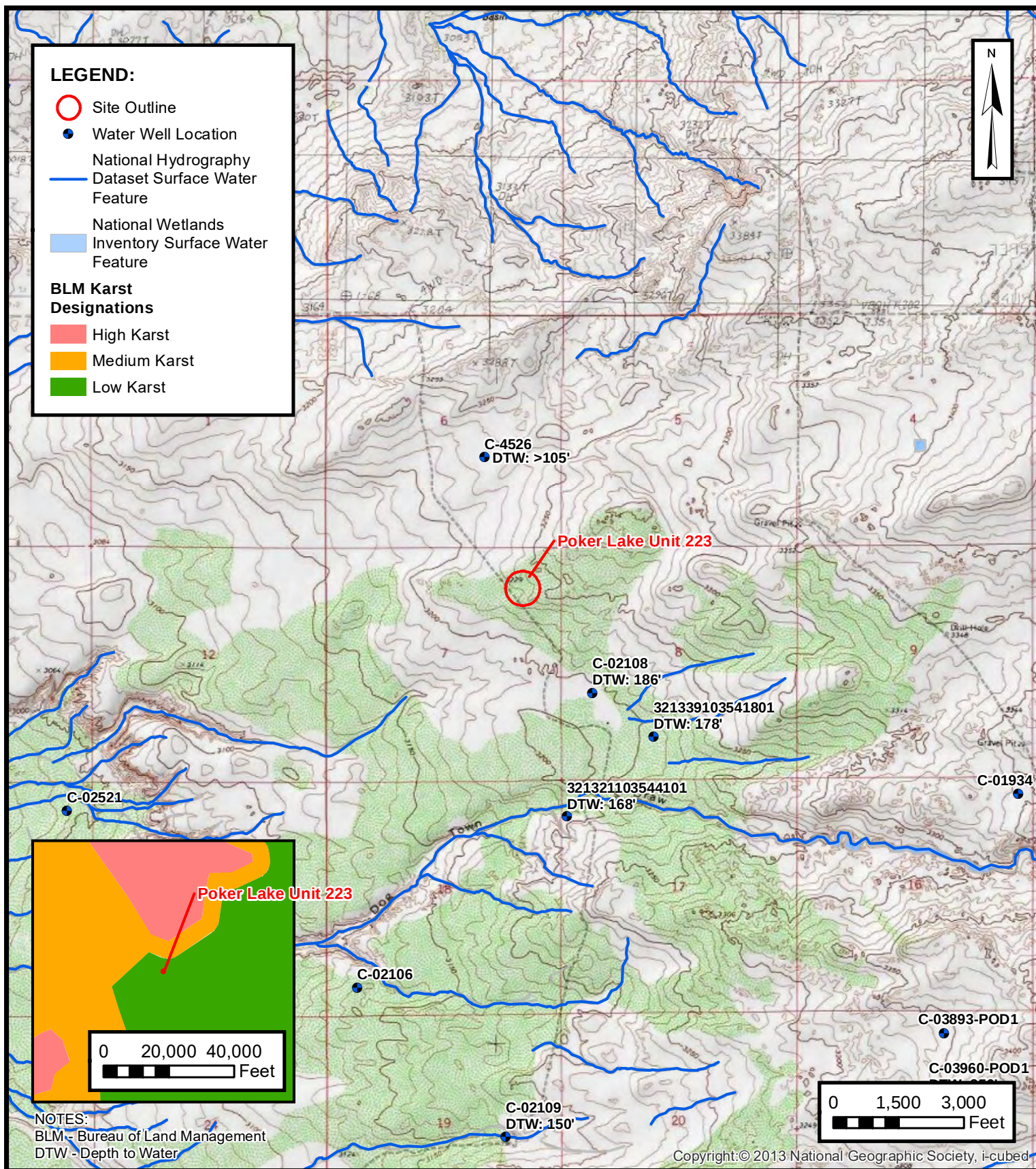
cc: Garrett Green, XTO
Bureau of Land Management

Appendices:

Figure 1	Site Location Map
Figure 2	Preliminary Soil Sample Locations
Figure 3	Delineation Soil Sample Locations
Figure 4	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Lithologic Soil Sampling Logs
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Sample Notification



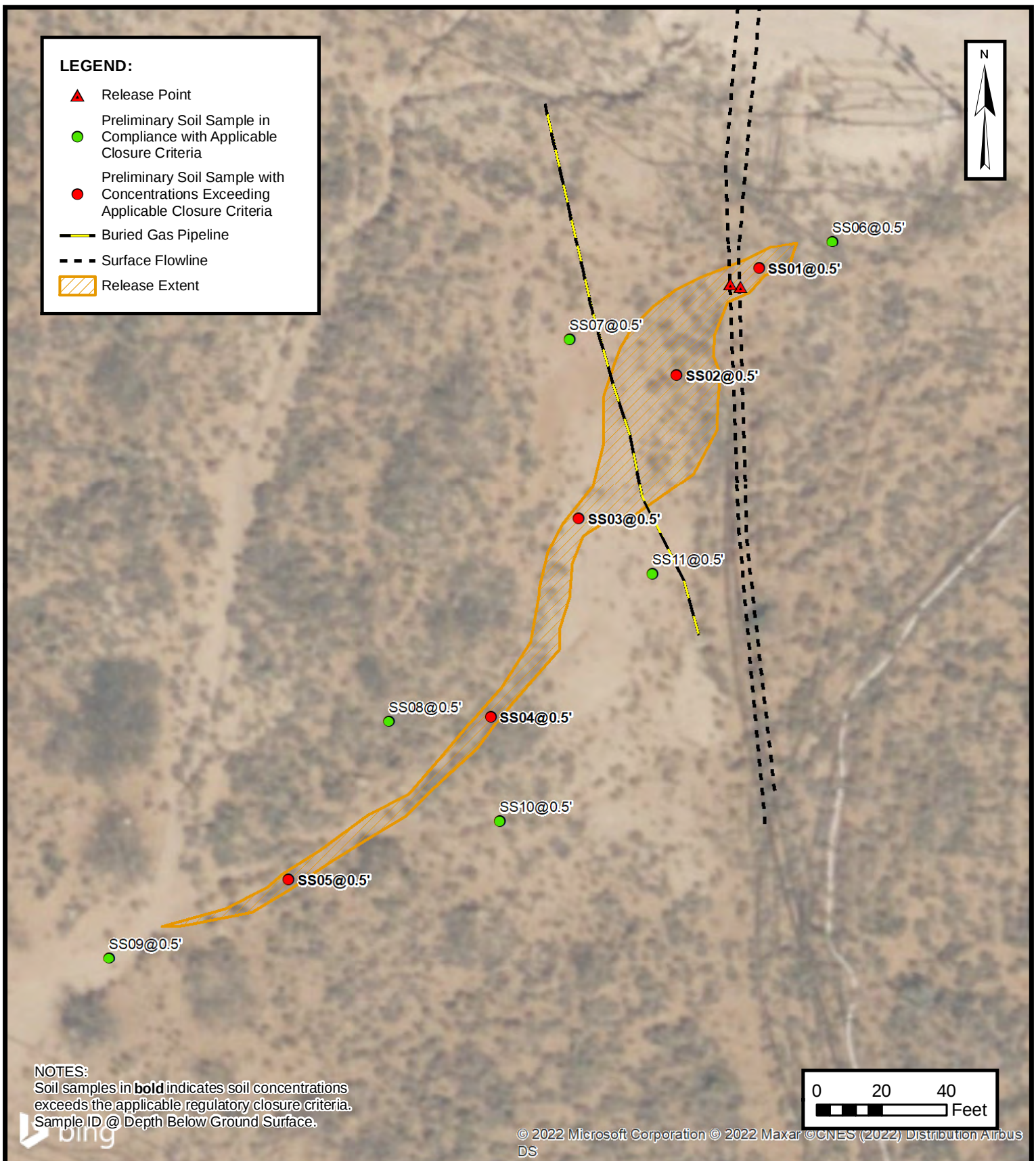
FIGURES



SITE LOCATION MAP

XTO ENERGY, INC
POKER LAKE UNIT 223
Incident Numbers: NAPP2204945328, NAPP2205343597, NAPP2201745910
Unit A, Sec 7, T24S, R30E
Eddy County, New Mexico

FIGURE
1



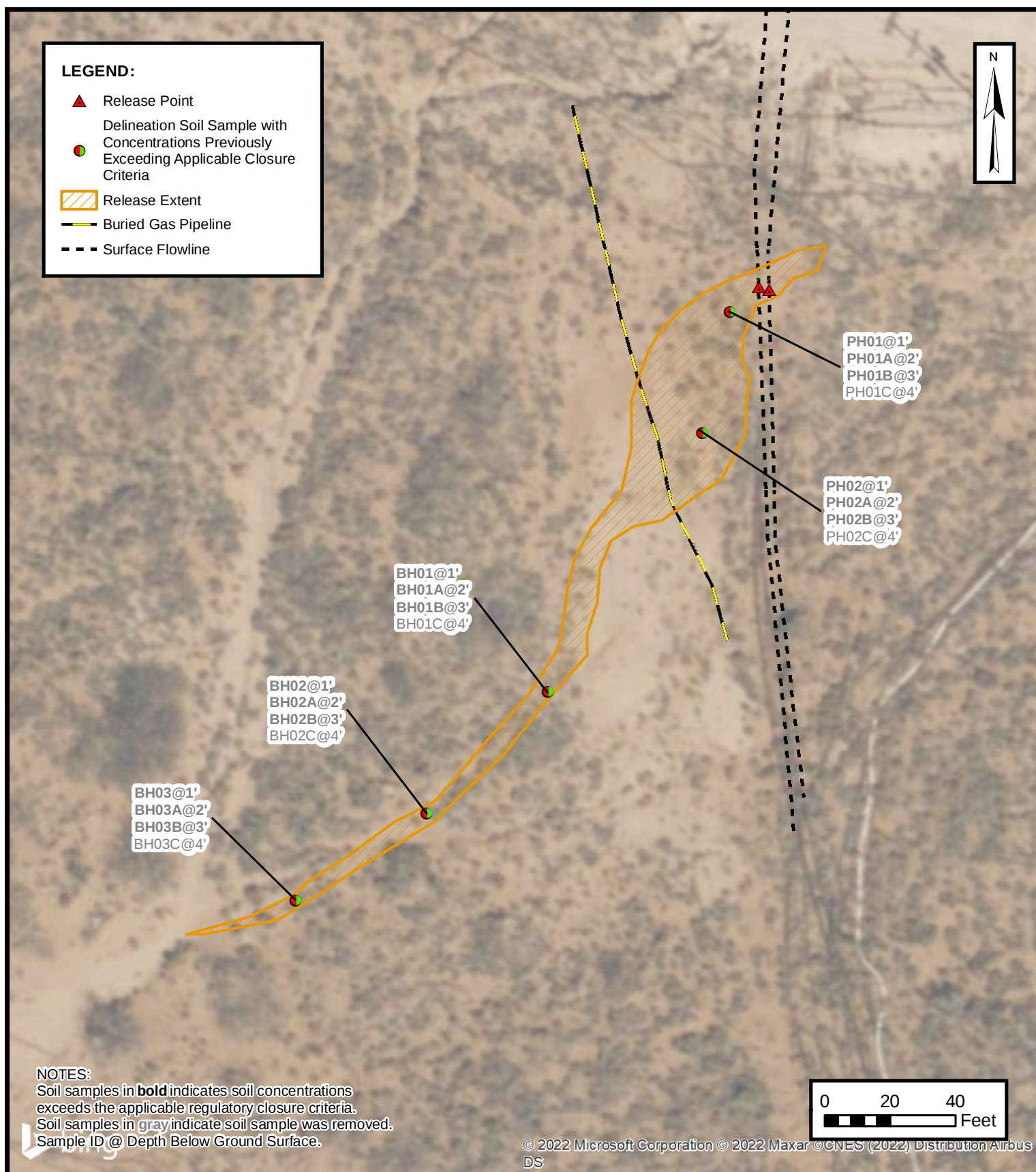
PRELIMINARY SOIL SAMPLE LOCATIONS

XTO ENERGY, INC
POKER LAKE UNIT 223
Incident Numbers: NAPP2204945328, NAPP2205343597, NAPP2201745910
Unit A, Sec 7, T24S, R30E
Eddy County, New Mexico

FIGURE

2

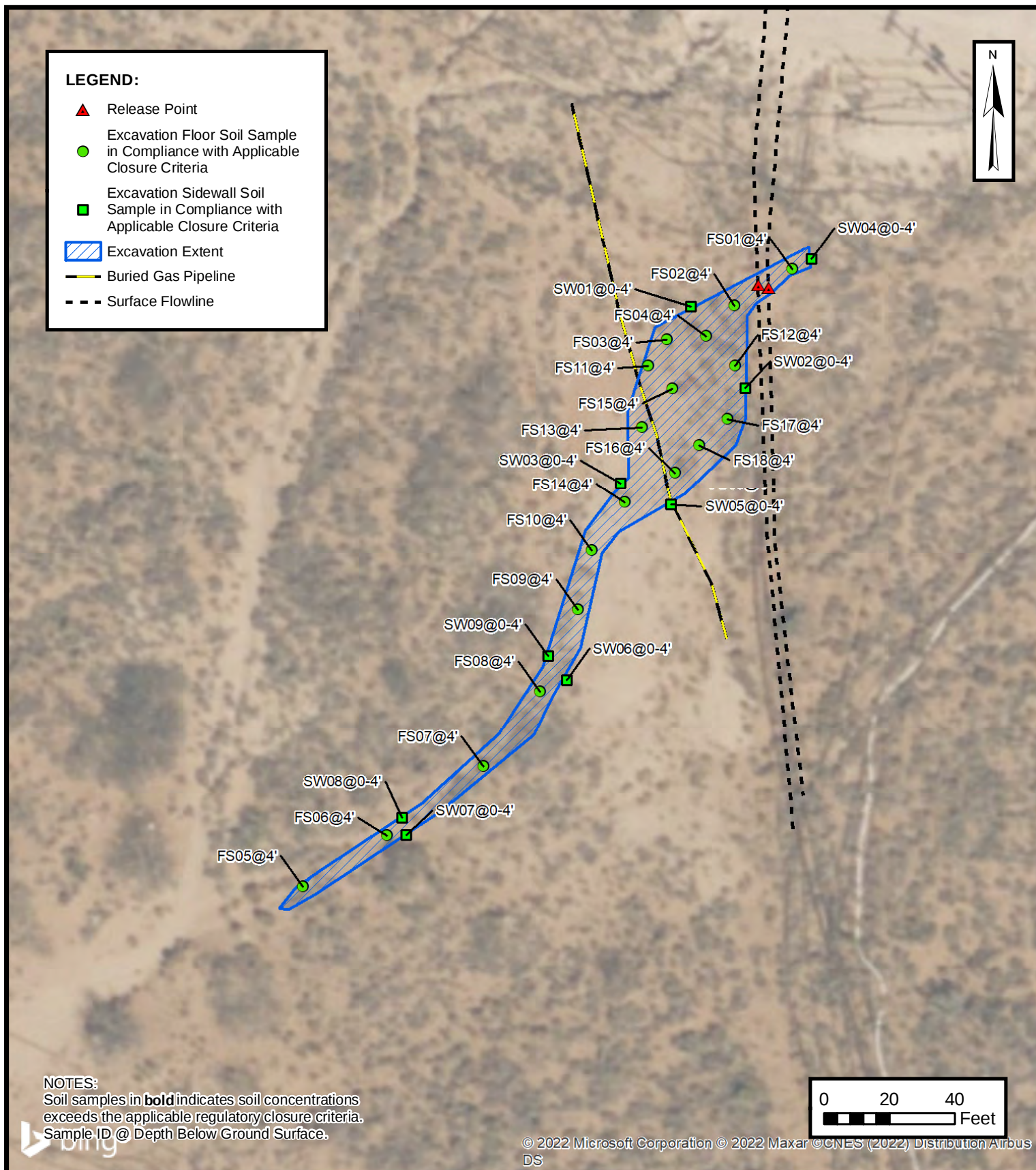
ENSOLUM
Environmental & Hydrogeologic Consultants



DELINEATION SOIL SAMPLE LOCATIONS

XTO ENERGY, INC
 POKER LAKE UNIT 223
 Incident Numbers: NAPP2204945328, NAPP2205343597, NAPP2201745910
 Unit A, Sec 7, T24S, R30E
 Eddy County, New Mexico

FIGURE
3



EXCAVATION SOIL SAMPLE LOCATIONS

XTO ENERGY, INC
POKER LAKE UNIT 223
Incident Numbers: NAPP2204945328, NAPP2205343597, NAPP2201745910
Unit A, Sec 7, T24S, R30E
Eddy County, New Mexico

FIGURE
4



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 XTO Energy, Inc.
 Poker Lake Unit 223
 Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Preliminary Soil Sample Analytical Results										
SS01	02/18/2022	0.5	<0.00201	0.387	<249	9070	<249	9,070	9,070	1,820*
SS02	02/18/2022	0.5	<0.00200	<0.00399	<49.8	256	<49.8	256	256	7,520*
SS03	02/18/2022	0.5	<0.00201	<0.00402	<49.9	74.6	<49.9	74.6	74.6	7,320*
SS04	02/18/2022	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	8,680*
SS05	02/18/2022	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	6,830*
SS06	02/18/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	18.8*
SS07	02/18/2022	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	6.64*
SS08	02/18/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	6.10*
SS09	02/18/2022	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	29.0*
SS10	02/18/2022	0.5	<0.00201	0.00669	<49.9	<49.9	<49.9	<49.9	<49.9	6.66*
SS11	02/18/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	6.72*
Delineation Soil Sample Analytical Results										
PH01	05/12/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	3,110*
PH01A	05/12/2022	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	8,040*
PH01B	05/12/2022	3	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	9,830*
PH01C	05/12/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	9,750
PH02	05/12/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	1,970*
PH02A	05/12/2022	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	7,480*
PH02B	05/12/2022	3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	4,310*
PH02C	05/12/2022	4	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	3,240
BH01	05/12/2022	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	4,960*
BH01A	05/12/2022	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	3,570*
BH01B	05/12/2022	3	<0.0222	<0.0444	<49.9	<49.9	<49.9	<49.9	<49.9	3,100*
BH01C	05/12/2022	4	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	931
BH02	05/12/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	205*
BH02A	05/12/2022	2	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	798*
BH02B	05/12/2022	3	<0.00199	<0.00398	93.0	<50.0	<50.0	93.0	93.0	55.8*
BH02C	05/12/2022	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	36.6



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 XTO Energy, Inc.
 Poker Lake Unit 223
 Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOC Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
BH03	05/12/2022	1	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	2,050*
BH03A	05/12/2022	2	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	172*
BH03B	05/12/2022	3	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	704*
BH03C	05/12/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	312
Excavation Soil Sample Analytical Results										
FS01	06/08/2022	4	<0.00199	<0.00398	537	<50.0	202	537	739	5,850
FS02	06/08/2022	4	<0.00200	0.00595	<50.0	<50.0	<50.0	<50.0	<50.0	6,350
FS03	06/08/2022	4	<0.00199	0.0595	<49.9	<49.9	<49.9	<49.9	<49.9	355
FS04	06/10/2022	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	9,980
FS05	06/10/2022	4	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	1,380
FS06	06/10/2022	4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	339
FS07	06/10/2022	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	163
FS08	06/10/2022	4	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	450
FS09	06/10/2022	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	2,280
FS10	06/10/2022	4	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	2,680
FS11	06/10/2022	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	736
FS12	06/10/2022	4	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	713
FS13	06/10/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	299
FS14	06/10/2022	4	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	281
FS15	06/10/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	715
FS16	06/10/2022	4	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	6,020
FS17	06/10/2022	4	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	2,930
FS18	06/10/2022	4	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	9,030
SW01	06/08/2022	0 - 4	<0.00200	0.0146	<50.0	<50.0	<50.0	<50.0	<50.0	173*
SW02	06/08/2022	0 - 4	<0.00199	0.00746	<50.0	<50.0	<50.0	<50.0	<50.0	18.2*
SW03	06/08/2022	0 - 4	<0.00200	0.0246	<50.0	<50.0	<50.0	<50.0	<50.0	62.1*
SW04	06/08/2022	0 - 4	<0.00200	0.0162	<49.9	<49.9	<49.9	<49.9	<49.9	308*
SW05	06/08/2022	0 - 4	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	153*
SW06	06/10/2022	0 - 4	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	28.9*



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
XTO Energy, Inc.
Poker Lake Unit 223
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
SW07	06/10/2022	0 - 4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	14.8*
SW08	06/10/2022	0 - 4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	17.9*
SW09	06/10/2022	0 - 4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	384*

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

Grey text indicate soil sample removed during excavation activities

* indicates soil in the top 4 feet of pasture to be reclaimed



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (MW-1)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4526			
	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.				CITY Midland	STATE TX	ZIP 79707	
	WELL LOCATION (FROM GPS)	DEGREES 32°	MINUTES 14'	SECONDS 42.15" N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103°	55'	6.20" W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW NE Sec. 06 T24S R30E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 05/14/2021	DRILLING ENDED 05/14/2021	DEPTH OF COMPLETED WELL (FT) temporary well material		BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) n/a		
	COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER – SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 105		±6.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.

POD NO.

TRN NO.

LOCATION

WELL TAG ID NO.

PAGE 1 OF 2

1. HYDROGEOLOGIC LOG OF WELL

5. TEST: RIG SUPERVISION

5. SIGNATURE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (V _{ersion} 06/30/2017)	
FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO	PAGE 2 OF 2



APPENDIX B

Lithologic Soil Sampling Logs

 ENSOLUM		Sample Name: PH01		Date: 5/12/2022				
		Site Name: Poker Lake Unit 223						
		Incident ID: NAPP2204945328, NAPP2205343597, NAPP2201745910						
		Job Number: 03E1558008						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.2370332,-103.9149339			Logged By: BB		Method: Trackhoe			
			Hole Diameter: N/A		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	SP	0-4', SAND, moist, brown, poorly graded, fine grain, no stain, no odor.
M	>3,617	0.1	N	PH01	1	1		3.5'-4', trace off white caliche gravel.
M	>3,617	0.2	N	PH01A	2	2		
M	16,088	0.1	N	PH01B	3	3		
M	16,088	0.1	N	PH01C	4	4		
						5	TD	Total depth at 4' bgs.
						6		
						7		
						8		
						9		
						10		
						11		
						12		

 ENSOLUM		Sample Name: PH02		Date: 5/12/2022				
		Site Name: Poker Lake Unit 223						
		Incident ID: NAPP2204945328, NAPP2205343597, NAPP2201745910						
		Job Number: 03E1558008						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.236933,-103.914960			Logged By: BB		Method: Trackhoe			
			Hole Diameter: N/A		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	SP	0-4', SAND, moist, brown, poorly graded, fine grain, no stain, no odor.
M	6,843	0.1	N	PH02	1	1		3.5'-4', trace off white caliche gravel.
M	8,926	0.1	N	PH02A	2	2		
M	1,148	0.2	N	PH02B	3	3		
M	901	0.2	N	PH02C	4	4		
						5	TD	Total depth at 4' bgs.
						6		
						7		
						8		
						9		
						10		
						11		
						12		

 ENSOLUM		Sample Name: BH01		Date: 5/12/2022				
		Site Name: Poker Lake Unit 223						
		Incident ID: NAPP2204945328, NAPP2205343597, NAPP2201745910						
		Job Number: 03E1558008						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.236717,-103.915112			Logged By: BB		Method: Hand Auger			
			Hole Diameter: 3.5"		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	SP	0-4', SAND, moist, brown, poorly graded, fine grain, no stain, no odor.
M	>3,617	0.3	N	BH01	1	1		3'-4', dry.
M	>3,617	0.1	N	BH01A	2	2		
D	>3,617	0.1	N	BH01B	3	3		
D	1,657	0.2	N	BH01C	4	4		
							TD	Total depth at 4' bgs.
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

 ENSOLUM		Sample Name: BH02		Date: 5/12/2022				
		Site Name: Poker Lake Unit 223						
		Incident ID: NAPP2204945328, NAPP2205343597, NAPP2201745910						
		Job Number: 03E1558008						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.236617,-103.915230			Logged By: BB		Method: Hand Auger			
			Hole Diameter: 3.5"		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	SP	0-4', SAND, moist, brown, poorly graded, fine grain, no stain, no odor.
M	274	0.1	N	BH02	1	1		2.5'-4', dry.
M	980	0.1	N	BH02A	2	2		
D	<112	0.1	N	BH02B	3	3		
D	<112	0.2	N	BH02C	4	4		
						5	TD	Total depth at 4' bgs.
						6		
						7		
						8		
						9		
						10		
						11		
						12		

 ENSOLUM		Sample Name: BH03		Date: 5/12/2022				
		Site Name: Poker Lake Unit 223						
		Incident ID: NAPP2204945328, NAPP2205343597, NAPP2201745910						
		Job Number: 03E1558008						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.236545,-103.915359			Logged By: BB		Method: Hand Auger			
			Hole Diameter: 3.5"		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	SP	0-4', SAND, moist, brown, poorly graded, fine grain, no stain, no odor.
M	3,113	0.1	N	BH03	1	1		2.5'-4', dry.
M	235	0.1	N	BH03A	2	2		
D	<112	0.2	N	BH03B	3	3		
D	<112	0.2	N	BH03C	4	4		
							TD	Total depth at 4' bgs.
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		



APPENDIX C

Photographic Log



Photographic Log

XTO Energy, Inc.

Poker Lake Unit 223

Incident Numbers: NAPP2204945328,
NAPP2205343597 and NAPP2201745910



Photograph 1

Date: February 18, 2022

Description: Site Assessment Activities



Photograph 2

Date: February 18, 2022

Description: Site Assessment Activities



Photograph 3

Date: February 18, 2022

Description: Site Assessment Activities.



Photograph 4

Date: May 12, 2022

Description: Delineation Activities



Photographic Log

XTO Energy, Inc.

Poker Lake Unit 223

Incident Numbers: NAPP2204945328,
NAPP2205343597 and NAPP2201745910



Photograph 5

Date: June 2, 2022

Description: Excavation Activities



Photograph 6

Date: June 3, 2022

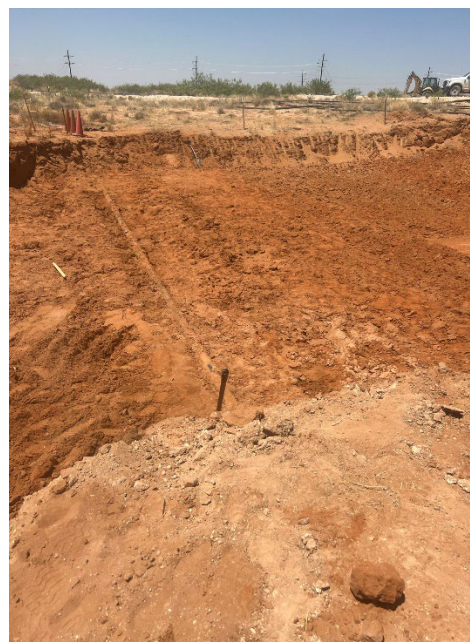
Description: Excavation Activities



Photograph 7

Date: June 10, 2022

Description: Excavation Activities



Photograph 8

Date: June 10, 2022

Description: Excavation Activities



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1982-1

Laboratory Sample Delivery Group: 31403236.029

Client Project/Site: PLU 223

For:

WSP USA Inc.
2777 N. Stemmons Freeway
Suite 1600
Dallas, Texas 75207

Attn: Benjamin Belill

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
3/2/2022 7:32:14 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: WSP USA Inc.
Project/Site: PLU 223

Laboratory Job ID: 890-1982-1
SDG: 31403236.029

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1982-1
SDG: 31403236.029

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

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: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1982-1
SDG: 31403236.029

Job ID: 890-1982-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-1982-1****Receipt**

The samples were received on 2/21/2022 10:14 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

GC VOA

Method 8021B: The following sample was diluted due to the nature of the sample matrix: SS05 (890-1982-5) at 20.0. 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.

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-20088 and analytical batch 880-20116 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-1988-A-8-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-20130 and analytical batch 880-20165 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. SS03 (890-1982-3), SS04 (890-1982-4), SS05 (890-1982-5), (890-1982-A-3-F MS) and (890-1982-A-3-G MSD)

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1982-1
SDG: 31403236.029

Client Sample ID: SS01

Lab Sample ID: 890-1982-1

Date Collected: 02/18/22 10:15

Matrix: Solid

Date Received: 02/21/22 10:14

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/28/22 12:51	03/01/22 04:04	1
Toluene	0.00656		0.00201	mg/Kg		02/28/22 12:51	03/01/22 04:04	1
Ethylbenzene	0.0932		0.00201	mg/Kg		02/28/22 12:51	03/01/22 04:04	1
m-Xylene & p-Xylene	0.188		0.00402	mg/Kg		02/28/22 12:51	03/01/22 04:04	1
o-Xylene	0.0992		0.00201	mg/Kg		02/28/22 12:51	03/01/22 04:04	1
Xylenes, Total	0.287		0.00402	mg/Kg		02/28/22 12:51	03/01/22 04:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	207	S1+	70 - 130	02/28/22 12:51	03/01/22 04:04	1
1,4-Difluorobenzene (Surr)	88		70 - 130	02/28/22 12:51	03/01/22 04:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.387		0.00402	mg/Kg			03/02/22 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	9070		249	mg/Kg			02/24/22 15:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<249	U	249	mg/Kg		02/22/22 16:53	02/24/22 04:00	5
Diesel Range Organics (Over C10-C28)	9070		249	mg/Kg		02/22/22 16:53	02/24/22 04:00	5
Oil Range Organics (Over C28-C36)	<249	U	249	mg/Kg		02/22/22 16:53	02/24/22 04:00	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	02/22/22 16:53	02/24/22 04:00	5
o-Terphenyl	95		70 - 130	02/22/22 16:53	02/24/22 04:00	5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1820		25.0	mg/Kg			02/25/22 22:58	5

Client Sample ID: SS02

Lab Sample ID: 890-1982-2

Date Collected: 02/18/22 10:20

Matrix: Solid

Date Received: 02/21/22 10:14

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/28/22 12:51	03/01/22 04:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/28/22 12:51	03/01/22 04:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/28/22 12:51	03/01/22 04:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/28/22 12:51	03/01/22 04:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/28/22 12:51	03/01/22 04:25	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/28/22 12:51	03/01/22 04:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	02/28/22 12:51	03/01/22 04:25	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1982-1
SDG: 31403236.029

Client Sample ID: SS02

Lab Sample ID: 890-1982-2

Date Collected: 02/18/22 10:20

Matrix: Solid

Date Received: 02/21/22 10:14

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	02/28/22 12:51	03/01/22 04:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/02/22 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	256		49.8	mg/Kg			02/24/22 15:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		02/22/22 16:53	02/24/22 04:20	1
Diesel Range Organics (Over C10-C28)	256		49.8	mg/Kg		02/22/22 16:53	02/24/22 04:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		02/22/22 16:53	02/24/22 04:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130			02/22/22 16:53	02/24/22 04:20	1
o-Terphenyl	81		70 - 130			02/22/22 16:53	02/24/22 04:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7520		49.6	mg/Kg			02/25/22 23:04	10

Client Sample ID: SS03

Lab Sample ID: 890-1982-3

Date Collected: 02/18/22 10:25

Matrix: Solid

Date Received: 02/21/22 10:14

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/28/22 12:51	03/01/22 04:45	1
Toluene	0.00303		0.00201	mg/Kg		02/28/22 12:51	03/01/22 04:45	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/28/22 12:51	03/01/22 04:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/28/22 12:51	03/01/22 04:45	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/28/22 12:51	03/01/22 04:45	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/28/22 12:51	03/01/22 04:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	02/28/22 12:51	03/01/22 04:45	1
1,4-Difluorobenzene (Surr)	101		70 - 130	02/28/22 12:51	03/01/22 04:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/02/22 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	74.6		49.9	mg/Kg			02/24/22 15:23	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1982-1
SDG: 31403236.029

Client Sample ID: SS03

Lab Sample ID: 890-1982-3

Date Collected: 02/18/22 10:25

Matrix: Solid

Date Received: 02/21/22 10:14

Sample Depth: 0.5

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/22/22 16:53	02/24/22 04:41	1
Diesel Range Organics (Over C10-C28)	74.6		49.9	mg/Kg		02/22/22 16:53	02/24/22 04:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/22/22 16:53	02/24/22 04:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130			02/22/22 16:53	02/24/22 04:41	1
o-Terphenyl	74		70 - 130			02/22/22 16:53	02/24/22 04:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7320	F1	100	mg/Kg			02/25/22 23:11	20

Client Sample ID: SS04

Lab Sample ID: 890-1982-4

Date Collected: 02/18/22 10:30

Matrix: Solid

Date Received: 02/21/22 10:14

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/28/22 12:51	03/01/22 05:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/28/22 12:51	03/01/22 05:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/28/22 12:51	03/01/22 05:06	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/28/22 12:51	03/01/22 05:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/28/22 12:51	03/01/22 05:06	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/28/22 12:51	03/01/22 05:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			02/28/22 12:51	03/01/22 05:06	1
1,4-Difluorobenzene (Surr)	99		70 - 130			02/28/22 12:51	03/01/22 05:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/02/22 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/24/22 15:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/22/22 16:53	02/24/22 05:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/22/22 16:53	02/24/22 05:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/22/22 16:53	02/24/22 05:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130			02/22/22 16:53	02/24/22 05:01	1
o-Terphenyl	77		70 - 130			02/22/22 16:53	02/24/22 05:01	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1982-1
SDG: 31403236.029

Client Sample ID: SS04

Lab Sample ID: 890-1982-4

Date Collected: 02/18/22 10:30

Matrix: Solid

Date Received: 02/21/22 10:14

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8680		100	mg/Kg			02/25/22 23:30	20

Client Sample ID: SS05

Lab Sample ID: 890-1982-5

Date Collected: 02/18/22 10:35

Matrix: Solid

Date Received: 02/21/22 10:14

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/28/22 12:51	03/01/22 05:26	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/28/22 12:51	03/01/22 05:26	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/28/22 12:51	03/01/22 05:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/28/22 12:51	03/01/22 05:26	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/28/22 12:51	03/01/22 05:26	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/28/22 12:51	03/01/22 05:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			02/28/22 12:51	03/01/22 05:26	1
1,4-Difluorobenzene (Surr)	103		70 - 130			02/28/22 12:51	03/01/22 05:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/02/22 20:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/24/22 15:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/22/22 16:53	02/24/22 05:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/22/22 16:53	02/24/22 05:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/22/22 16:53	02/24/22 05:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130			02/22/22 16:53	02/24/22 05:22	1
o-Terphenyl	75		70 - 130			02/22/22 16:53	02/24/22 05:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6830		50.2	mg/Kg			02/25/22 23:36	10

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1982-1
SDG: 31403236.029

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-11681-A-21-H MS	Matrix Spike	95	112
880-11681-A-21-I MSD	Matrix Spike Duplicate	92	113
890-1982-1	SS01	207 S1+	88
890-1982-2	SS02	102	98
890-1982-3	SS03	106	101
890-1982-4	SS04	101	99
890-1982-5	SS05	107	103
890-1983-A-1-H MS	Matrix Spike	111	97
890-1983-A-1-I MSD	Matrix Spike Duplicate	109	96
LCS 880-20432/1-A	Lab Control Sample	89	102
LCS 880-20498/1-A	Lab Control Sample	101	100
LCSD 880-20432/2-A	Lab Control Sample Dup	100	115
LCSD 880-20498/2-A	Lab Control Sample Dup	104	101
MB 880-20209/5-A	Method Blank	104	96
MB 880-20212/5-A	Method Blank	114	101
MB 880-20432/5-A	Method Blank	113	104
MB 880-20498/5-A	Method Blank	101	95
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1982-1	SS01	85	95
890-1982-2	SS02	78	81
890-1982-3	SS03	71	74
890-1982-4	SS04	74	77
890-1982-5	SS05	76	75
890-1988-A-8-B MS	Matrix Spike	74	62 S1-
890-1988-A-8-C MSD	Matrix Spike Duplicate	80	63 S1-
LCS 880-20088/2-A	Lab Control Sample	100	99
LCSD 880-20088/3-A	Lab Control Sample Dup	109	104
MB 880-20088/1-A	Method Blank	80	89
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1982-1
SDG: 31403236.029

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-20209/5-A

Matrix: Solid

Analysis Batch: 20398

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20209

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/28/22 07:30	02/28/22 10:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/28/22 07:30	02/28/22 10:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/28/22 07:30	02/28/22 10:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/28/22 07:30	02/28/22 10:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/28/22 07:30	02/28/22 10:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/28/22 07:30	02/28/22 10:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	02/28/22 07:30	02/28/22 10:40	1
1,4-Difluorobenzene (Surr)	96		70 - 130	02/28/22 07:30	02/28/22 10:40	1

Lab Sample ID: MB 880-20212/5-A

Matrix: Solid

Analysis Batch: 20399

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20212

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/28/22 08:00	02/28/22 10:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/28/22 08:00	02/28/22 10:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/28/22 08:00	02/28/22 10:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/28/22 08:00	02/28/22 10:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/28/22 08:00	02/28/22 10:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/28/22 08:00	02/28/22 10:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	02/28/22 08:00	02/28/22 10:44	1
1,4-Difluorobenzene (Surr)	101		70 - 130	02/28/22 08:00	02/28/22 10:44	1

Lab Sample ID: MB 880-20432/5-A

Matrix: Solid

Analysis Batch: 20399

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20432

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/28/22 13:00	02/28/22 22:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/28/22 13:00	02/28/22 22:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/28/22 13:00	02/28/22 22:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/28/22 13:00	02/28/22 22:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/28/22 13:00	02/28/22 22:57	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/28/22 13:00	02/28/22 22:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	02/28/22 13:00	02/28/22 22:57	1
1,4-Difluorobenzene (Surr)	104		70 - 130	02/28/22 13:00	02/28/22 22:57	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1982-1
SDG: 31403236.029

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-20432/1-A

Matrix: Solid

Analysis Batch: 20399

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09958		mg/Kg		100	70 - 130
Toluene	0.100	0.08851		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.08699		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1772		mg/Kg		89	70 - 130
o-Xylene	0.100	0.08878		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-20432/2-A

Matrix: Solid

Analysis Batch: 20399

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20432

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1129		mg/Kg		113	70 - 130	13	35
Toluene	0.100	0.09743		mg/Kg		97	70 - 130	10	35
Ethylbenzene	0.100	0.09736		mg/Kg		97	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1979		mg/Kg		99	70 - 130	11	35
o-Xylene	0.100	0.09938		mg/Kg		99	70 - 130	11	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: 880-11681-A-21-H MS

Matrix: Solid

Analysis Batch: 20399

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20432

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.100	0.07678		mg/Kg		76	70 - 130
Toluene	<0.00199	U F1	0.100	0.06234	F1	mg/Kg		62	70 - 130
Ethylbenzene	<0.00199	U F1	0.100	0.05483	F1	mg/Kg		55	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.201	0.1113	F1	mg/Kg		55	70 - 130
o-Xylene	<0.00199	U F1	0.100	0.05664	F1	mg/Kg		56	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-11681-A-21-I MSD

Matrix: Solid

Analysis Batch: 20399

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20432

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.08241		mg/Kg		82	70 - 130	7	35
Toluene	<0.00199	U F1	0.100	0.06689	F1	mg/Kg		67	70 - 130	7	35
Ethylbenzene	<0.00199	U F1	0.100	0.06101	F1	mg/Kg		61	70 - 130	11	35

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1982-1
SDG: 31403236.029

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-11681-A-21-I MSD

Matrix: Solid

Analysis Batch: 20399

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20432

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1234	F1	mg/Kg		62	70 - 130	10	35
o-Xylene	<0.00199	U F1	0.100	0.06239	F1	mg/Kg		62	70 - 130	10	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	92		70 - 130								
1,4-Difluorobenzene (Surr)	113		70 - 130								

Lab Sample ID: MB 880-20498/5-A

Matrix: Solid

Analysis Batch: 20398

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20498

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/28/22 12:51	02/28/22 21:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/28/22 12:51	02/28/22 21:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/28/22 12:51	02/28/22 21:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/28/22 12:51	02/28/22 21:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/28/22 12:51	02/28/22 21:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/28/22 12:51	02/28/22 21:34	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			02/28/22 12:51	02/28/22 21:34	1
1,4-Difluorobenzene (Surr)	95		70 - 130			02/28/22 12:51	02/28/22 21:34	1

Lab Sample ID: LCS 880-20498/1-A

Matrix: Solid

Analysis Batch: 20398

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20498

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Benzene	0.100	0.1047		mg/Kg		105	70 - 130	
Toluene	0.100	0.1025		mg/Kg		102	70 - 130	
Ethylbenzene	0.100	0.1019		mg/Kg		102	70 - 130	
m-Xylene & p-Xylene	0.200	0.2099		mg/Kg		105	70 - 130	
o-Xylene	0.100	0.1066		mg/Kg		107	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	101		70 - 130					
1,4-Difluorobenzene (Surr)	100		70 - 130					

Lab Sample ID: LCSD 880-20498/2-A

Matrix: Solid

Analysis Batch: 20398

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20498

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1127		mg/Kg		113	70 - 130	7	35
Toluene	0.100	0.1096		mg/Kg		110	70 - 130	7	35
Ethylbenzene	0.100	0.1081		mg/Kg		108	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2238		mg/Kg		112	70 - 130	6	35
o-Xylene	0.100	0.1171		mg/Kg		117	70 - 130	9	35

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1982-1
SDG: 31403236.029

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-1983-A-1-H MS

Matrix: Solid

Analysis Batch: 20398

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20498

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.0990	0.08725		mg/Kg		88	70 - 130
Toluene	<0.00200	U	0.0990	0.08125		mg/Kg		82	70 - 130
Ethylbenzene	<0.00200	U	0.0990	0.08199		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1618		mg/Kg		81	70 - 130
o-Xylene	<0.00200	U	0.0990	0.08006		mg/Kg		80	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-1983-A-1-I MSD

Matrix: Solid

Analysis Batch: 20398

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20498

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.09190		mg/Kg		92	70 - 130	5	35
Toluene	<0.00200	U	0.100	0.08554		mg/Kg		85	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.100	0.08645		mg/Kg		85	70 - 130	5	35
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1719		mg/Kg		85	70 - 130	6	35
o-Xylene	<0.00200	U	0.100	0.08020		mg/Kg		80	70 - 130	0	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-20088/1-A

Matrix: Solid

Analysis Batch: 20116

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20088

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/22/22 16:53	02/23/22 22:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/22/22 16:53	02/23/22 22:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/22/22 16:53	02/23/22 22:07	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane	80		70 - 130	02/22/22 16:53	02/23/22 22:07	1		
o-Terphenyl	89		70 - 130	02/22/22 16:53	02/23/22 22:07	1		

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1982-1
SDG: 31403236.029

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-20088/2-A

Matrix: Solid

Analysis Batch: 20116

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Gasoline Range Organics (GRO)-C6-C10	1000	823.1		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	951.1		mg/Kg		95	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	100		70 - 130				
o-Terphenyl	99		70 - 130				

Lab Sample ID: LCSD 880-20088/3-A

Matrix: Solid

Analysis Batch: 20116

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20088

Table 1.10: Data for Table 1.10										Table 1.11: Data for Table 1.11		
Analyte				Spike	LCSD	LCSD				%Rec.	RPD	
				Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10				1000	936.3		mg/Kg		94	70 - 130	13	20
Diesel Range Organics (Over C10-C28)				1000	1052		mg/Kg		105	70 - 130	10	20
Surrogate	LCSD		LCSD									
	%Recovery	Qualifier	Limits									
1-Chlorooctane	109		70 - 130									
o-Terphenyl	104		70 - 130									

Lab Sample ID: 890-1988-A-8-B MS

Matrix: Solid

Analysis Batch: 20116

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20088

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	1000	1299		mg/Kg		130	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	1000	1364	F1	mg/Kg		133	70 - 130		

Lab Sample ID: 890-1988-A-8-C MSD

Matrix: Solid

Analysis Batch: 20116

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20088

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	1452	F1	mg/Kg		145	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	1420	F1	mg/Kg		139	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	80		70 - 130								

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1982-1
SDG: 31403236.029

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1988-A-8-C MSD

Matrix: Solid

Analysis Batch: 20116

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20088

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	63	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-20130/1-A

Matrix: Solid

Analysis Batch: 20165

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00	mg/Kg			02/25/22 09:44		1

Lab Sample ID: LCS 880-20130/2-A

Matrix: Solid

Analysis Batch: 20165

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride			250	249.1		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-20130/3-A

Matrix: Solid

Analysis Batch: 20165

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	255.6		mg/Kg		102	90 - 110	3	20

Lab Sample ID: 890-1982-3 MS

Matrix: Solid

Analysis Batch: 20165

Client Sample ID: SS03

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride	7320	F1	5000	13340	F1	mg/Kg		120	90 - 110

Lab Sample ID: 890-1982-3 MSD

Matrix: Solid

Analysis Batch: 20165

Client Sample ID: SS03

Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	7320	F1	5000	13420	F1	mg/Kg		122	90 - 110	1	20

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1982-1
SDG: 31403236.029

GC VOA

Prep Batch: 20209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-20209/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 20212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-20212/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 20398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1982-1	SS01	Total/NA	Solid	8021B	20498
890-1982-2	SS02	Total/NA	Solid	8021B	20498
890-1982-3	SS03	Total/NA	Solid	8021B	20498
890-1982-4	SS04	Total/NA	Solid	8021B	20498
890-1982-5	SS05	Total/NA	Solid	8021B	20498
MB 880-20209/5-A	Method Blank	Total/NA	Solid	8021B	20209
MB 880-20498/5-A	Method Blank	Total/NA	Solid	8021B	20498
LCS 880-20498/1-A	Lab Control Sample	Total/NA	Solid	8021B	20498
LCSD 880-20498/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20498
890-1983-A-1-H MS	Matrix Spike	Total/NA	Solid	8021B	20498
890-1983-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	20498

Analysis Batch: 20399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-20212/5-A	Method Blank	Total/NA	Solid	8021B	20212
MB 880-20432/5-A	Method Blank	Total/NA	Solid	8021B	20432
LCS 880-20432/1-A	Lab Control Sample	Total/NA	Solid	8021B	20432
LCSD 880-20432/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20432
880-11681-A-21-H MS	Matrix Spike	Total/NA	Solid	8021B	20432
880-11681-A-21-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	20432

Prep Batch: 20432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-20432/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20432/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20432/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11681-A-21-H MS	Matrix Spike	Total/NA	Solid	5035	
880-11681-A-21-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 20498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1982-1	SS01	Total/NA	Solid	5035	
890-1982-2	SS02	Total/NA	Solid	5035	
890-1982-3	SS03	Total/NA	Solid	5035	
890-1982-4	SS04	Total/NA	Solid	5035	
890-1982-5	SS05	Total/NA	Solid	5035	
MB 880-20498/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20498/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20498/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1983-A-1-H MS	Matrix Spike	Total/NA	Solid	5035	
890-1983-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1982-1
SDG: 31403236.029

GC VOA

Analysis Batch: 20742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1982-1	SS01	Total/NA	Solid	Total BTEX	
890-1982-2	SS02	Total/NA	Solid	Total BTEX	
890-1982-3	SS03	Total/NA	Solid	Total BTEX	
890-1982-4	SS04	Total/NA	Solid	Total BTEX	
890-1982-5	SS05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 20088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1982-1	SS01	Total/NA	Solid	8015NM Prep	
890-1982-2	SS02	Total/NA	Solid	8015NM Prep	
890-1982-3	SS03	Total/NA	Solid	8015NM Prep	
890-1982-4	SS04	Total/NA	Solid	8015NM Prep	
890-1982-5	SS05	Total/NA	Solid	8015NM Prep	
MB 880-20088/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-20088/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-20088/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1988-A-8-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1988-A-8-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 20116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1982-1	SS01	Total/NA	Solid	8015B NM	20088
890-1982-2	SS02	Total/NA	Solid	8015B NM	20088
890-1982-3	SS03	Total/NA	Solid	8015B NM	20088
890-1982-4	SS04	Total/NA	Solid	8015B NM	20088
890-1982-5	SS05	Total/NA	Solid	8015B NM	20088
MB 880-20088/1-A	Method Blank	Total/NA	Solid	8015B NM	20088
LCS 880-20088/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	20088
LCSD 880-20088/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	20088
890-1988-A-8-B MS	Matrix Spike	Total/NA	Solid	8015B NM	20088
890-1988-A-8-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	20088

Analysis Batch: 20248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1982-1	SS01	Total/NA	Solid	8015 NM	
890-1982-2	SS02	Total/NA	Solid	8015 NM	
890-1982-3	SS03	Total/NA	Solid	8015 NM	
890-1982-4	SS04	Total/NA	Solid	8015 NM	
890-1982-5	SS05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 20130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1982-1	SS01	Soluble	Solid	DI Leach	
890-1982-2	SS02	Soluble	Solid	DI Leach	
890-1982-3	SS03	Soluble	Solid	DI Leach	
890-1982-4	SS04	Soluble	Solid	DI Leach	
890-1982-5	SS05	Soluble	Solid	DI Leach	
MB 880-20130/1-A	Method Blank	Soluble	Solid	DI Leach	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1982-1
SDG: 31403236.029

HPLC/IC (Continued)

Leach Batch: 20130 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-20130/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-20130/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1982-3 MS	SS03	Soluble	Solid	DI Leach	
890-1982-3 MSD	SS03	Soluble	Solid	DI Leach	

Analysis Batch: 20165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1982-1	SS01	Soluble	Solid	300.0	20130
890-1982-2	SS02	Soluble	Solid	300.0	20130
890-1982-3	SS03	Soluble	Solid	300.0	20130
890-1982-4	SS04	Soluble	Solid	300.0	20130
890-1982-5	SS05	Soluble	Solid	300.0	20130
MB 880-20130/1-A	Method Blank	Soluble	Solid	300.0	20130
LCS 880-20130/2-A	Lab Control Sample	Soluble	Solid	300.0	20130
LCSD 880-20130/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	20130
890-1982-3 MS	SS03	Soluble	Solid	300.0	20130
890-1982-3 MSD	SS03	Soluble	Solid	300.0	20130

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1982-1
SDG: 31403236.029

Client Sample ID: SS01

Lab Sample ID: 890-1982-1

Date Collected: 02/18/22 10:15

Matrix: Solid

Date Received: 02/21/22 10:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			20498	02/28/22 12:51	KL	XEN MID
Total/NA	Analysis	8021B		1	20398	03/01/22 04:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	20742	03/02/22 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	20248	02/24/22 15:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			20088	02/22/22 16:53	DM	XEN MID
Total/NA	Analysis	8015B NM		5	20116	02/24/22 04:00	AJ	XEN MID
Soluble	Leach	DI Leach			20130	02/23/22 09:54	CH	XEN MID
Soluble	Analysis	300.0		5	20165	02/25/22 22:58	SC	XEN MID

Client Sample ID: SS02

Lab Sample ID: 890-1982-2

Date Collected: 02/18/22 10:20

Matrix: Solid

Date Received: 02/21/22 10:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			20498	02/28/22 12:51	KL	XEN MID
Total/NA	Analysis	8021B		1	20398	03/01/22 04:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	20742	03/02/22 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	20248	02/24/22 15:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			20088	02/22/22 16:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	20116	02/24/22 04:20	AJ	XEN MID
Soluble	Leach	DI Leach			20130	02/23/22 09:54	CH	XEN MID
Soluble	Analysis	300.0		10	20165	02/25/22 23:04	SC	XEN MID

Client Sample ID: SS03

Lab Sample ID: 890-1982-3

Date Collected: 02/18/22 10:25

Matrix: Solid

Date Received: 02/21/22 10:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			20498	02/28/22 12:51	KL	XEN MID
Total/NA	Analysis	8021B		1	20398	03/01/22 04:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	20742	03/02/22 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	20248	02/24/22 15:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			20088	02/22/22 16:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	20116	02/24/22 04:41	AJ	XEN MID
Soluble	Leach	DI Leach			20130	02/23/22 09:54	CH	XEN MID
Soluble	Analysis	300.0		20	20165	02/25/22 23:11	SC	XEN MID

Client Sample ID: SS04

Lab Sample ID: 890-1982-4

Date Collected: 02/18/22 10:30

Matrix: Solid

Date Received: 02/21/22 10:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			20498	02/28/22 12:51	KL	XEN MID
Total/NA	Analysis	8021B		1	20398	03/01/22 05:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	20742	03/02/22 20:11	AJ	XEN MID

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1982-1
SDG: 31403236.029

Client Sample ID: SS04
Date Collected: 02/18/22 10:30
Date Received: 02/21/22 10:14

Lab Sample ID: 890-1982-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	20248	02/24/22 15:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			20088	02/22/22 16:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	20116	02/24/22 05:01	AJ	XEN MID
Soluble	Leach	DI Leach			20130	02/23/22 09:54	CH	XEN MID
Soluble	Analysis	300.0		20	20165	02/25/22 23:30	SC	XEN MID

Client Sample ID: SS05
Date Collected: 02/18/22 10:35
Date Received: 02/21/22 10:14

Lab Sample ID: 890-1982-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			20498	02/28/22 12:51	KL	XEN MID
Total/NA	Analysis	8021B		1	20398	03/01/22 05:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	20742	03/02/22 20:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	20248	02/24/22 15:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			20088	02/22/22 16:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	20116	02/24/22 05:22	AJ	XEN MID
Soluble	Leach	DI Leach			20130	02/23/22 09:54	CH	XEN MID
Soluble	Analysis	300.0		10	20165	02/25/22 23:36	SC	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1982-1
SDG: 31403236.029

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1982-1
SDG: 31403236.029

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1982-1
SDG: 31403236.029

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1982-1	SS01	Solid	02/18/22 10:15	02/21/22 10:14	0.5
890-1982-2	SS02	Solid	02/18/22 10:20	02/21/22 10:14	0.5
890-1982-3	SS03	Solid	02/18/22 10:25	02/21/22 10:14	0.5
890-1982-4	SS04	Solid	02/18/22 10:30	02/21/22 10:14	0.5
890-1982-5	SS05	Solid	02/18/22 10:35	02/21/22 10:14	0.5

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Chain of Custody

Work Order No. _____

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432-704-5440) EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

www.xenco.com

Page 1 of 1

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
 State of Project:
 Reporting Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐
 Deliverables: EDD ☐ ADAPT ☐ Other: _____

Project Manager:	Benjamin Belli	Bill to: (if different)	Kyle Littlell
Company Name:	WSP USA Inc.	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	432.236.3849	Email:	Alexis.Castro@wsp.com, Benjamin.Belli@wsp.com

ANALYSIS REQUEST

Work Order Notes

INC: nAPP2201745910
 CC: 1137961001

Project Name:	PLU 223	Turn Around	☒
Project Number:	31403236.029	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Alexis Castro	Due Date:	

SAMPLE RECEIPT	Temp Blank:	☒ Yes	☒ No	Wet Ice:	☒ Yes	☒ No
Temperature (°C):	1.4/1.4	Thermometer ID				
Received Intact:	☒ Yes	☒ No	Correction Factor: 0.2			
Cooler Custody Seals:	Yes	No	Total Containers:			
Sample Custody Seals:	Yes	No	N/A			



800-1902-Chain-of-Custody

TAT starts the day received by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Sample Comments
SS01	S	02/18/2022	1015	0.5'	1	X	X	X	
SS02	S	02/18/2022	1020	0.5'	1	X	X	X	
SS03	S	02/18/2022	1025	0.5'	1	X	X	X	
SS04	S	02/18/2022	1030	0.5'	1	X	X	X	
SS05	S	02/18/2022	1035	0.5'	1	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471: Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	2.21.22 1014			

Revised Date 05/14/18 Rev 2018.1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1982-1

SDG Number: 31403236.029

Login Number: 1982

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2313-1

Laboratory Sample Delivery Group: 03E1558008

Client Project/Site: PLU 223

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Ben Belill

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

5/19/2022 12:18:22 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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results through



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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: PLU 223

Laboratory Job ID: 890-2313-1
SDG: 03E1558008

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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)
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: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Job ID: 890-2313-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-2313-1****Receipt**

The samples were received on 5/13/2022 4:08 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25650 and analytical batch 880-25671 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-25653 and analytical batch 880-25750 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH02B (890-2313-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside the upper control limit: (MB 880-25793/1-A). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-14856-A-1-E). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25793 and analytical batch 880-25772 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH01C (890-2313-4), PH02 (890-2313-5), PH02A (890-2313-6) and PH02B (890-2313-7). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Client Sample ID: PH01

Lab Sample ID: 890-2313-1

Date Collected: 05/12/22 10:00

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/16/22 15:47	05/18/22 05:05	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/16/22 15:47	05/18/22 05:05	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/16/22 15:47	05/18/22 05:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/16/22 15:47	05/18/22 05:05	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/16/22 15:47	05/18/22 05:05	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/16/22 15:47	05/18/22 05:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	05/16/22 15:47	05/18/22 05:05	1
1,4-Difluorobenzene (Surr)	97		70 - 130	05/16/22 15:47	05/18/22 05:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/18/22 09:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/18/22 08:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/17/22 09:20	05/17/22 23:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/17/22 09:20	05/17/22 23:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/17/22 09:20	05/17/22 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	05/17/22 09:20	05/17/22 23:31	1
o-Terphenyl	119		70 - 130	05/17/22 09:20	05/17/22 23:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3110		24.8	mg/Kg			05/18/22 20:15	5

Client Sample ID: PH01A

Lab Sample ID: 890-2313-2

Date Collected: 05/12/22 10:10

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/16/22 15:47	05/18/22 05:26	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/16/22 15:47	05/18/22 05:26	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/16/22 15:47	05/18/22 05:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/16/22 15:47	05/18/22 05:26	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/16/22 15:47	05/18/22 05:26	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/16/22 15:47	05/18/22 05:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	05/16/22 15:47	05/18/22 05:26	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Client Sample ID: PH01A

Lab Sample ID: 890-2313-2

Date Collected: 05/12/22 10:10

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96		70 - 130	05/16/22 15:47	05/18/22 05:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/18/22 09:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/18/22 08:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/17/22 09:13	05/18/22 16:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/17/22 09:13	05/18/22 16:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/17/22 09:13	05/18/22 16:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			05/17/22 09:13	05/18/22 16:28	1
o-Terphenyl	118		70 - 130			05/17/22 09:13	05/18/22 16:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8040		49.9	mg/Kg			05/18/22 20:43	10

Client Sample ID: PH01B

Lab Sample ID: 890-2313-3

Date Collected: 05/12/22 10:20

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/18/22 10:00	05/18/22 12:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/18/22 10:00	05/18/22 12:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/18/22 10:00	05/18/22 12:52	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/18/22 10:00	05/18/22 12:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/18/22 10:00	05/18/22 12:52	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/18/22 10:00	05/18/22 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	05/18/22 10:00	05/18/22 12:52	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/18/22 10:00	05/18/22 12:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/18/22 09:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/18/22 08:44	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Client Sample ID: PH01B

Lab Sample ID: 890-2313-3

Date Collected: 05/12/22 10:20

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 3

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/17/22 09:13	05/18/22 16:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/17/22 09:13	05/18/22 16:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/17/22 09:13	05/18/22 16:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			05/17/22 09:13	05/18/22 16:50	1
o-Terphenyl	113		70 - 130			05/17/22 09:13	05/18/22 16:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9830		99.6	mg/Kg			05/18/22 20:52	20

Client Sample ID: PH01C

Lab Sample ID: 890-2313-4

Date Collected: 05/12/22 10:30

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/18/22 10:00	05/18/22 13:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/18/22 10:00	05/18/22 13:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/18/22 10:00	05/18/22 13:13	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/18/22 10:00	05/18/22 13:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/18/22 10:00	05/18/22 13:13	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/18/22 10:00	05/18/22 13:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			05/18/22 10:00	05/18/22 13:13	1
1,4-Difluorobenzene (Surr)	97		70 - 130			05/18/22 10:00	05/18/22 13:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/18/22 09:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/18/22 08:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/17/22 09:13	05/18/22 17:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/17/22 09:13	05/18/22 17:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/17/22 09:13	05/18/22 17:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130			05/17/22 09:13	05/18/22 17:33	1
o-Terphenyl	150	S1+	70 - 130			05/17/22 09:13	05/18/22 17:33	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Client Sample ID: PH01C

Lab Sample ID: 890-2313-4

Date Collected: 05/12/22 10:30

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9750		101	mg/Kg			05/18/22 21:01	20

Client Sample ID: PH02

Lab Sample ID: 890-2313-5

Date Collected: 05/12/22 10:50

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/18/22 10:00	05/18/22 13:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/18/22 10:00	05/18/22 13:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/18/22 10:00	05/18/22 13:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/18/22 10:00	05/18/22 13:33	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/18/22 10:00	05/18/22 13:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/18/22 10:00	05/18/22 13:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			05/18/22 10:00	05/18/22 13:33	1
1,4-Difluorobenzene (Surr)	92		70 - 130			05/18/22 10:00	05/18/22 13:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/18/22 09:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/18/22 08:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/17/22 09:13	05/18/22 17:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/17/22 09:13	05/18/22 17:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/17/22 09:13	05/18/22 17:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130			05/17/22 09:13	05/18/22 17:55	1
o-Terphenyl	153	S1+	70 - 130			05/17/22 09:13	05/18/22 17:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1970		24.9	mg/Kg			05/18/22 21:10	5

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Client Sample ID: PH02A

Lab Sample ID: 890-2313-6

Date Collected: 05/12/22 11:00

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/18/22 10:00	05/18/22 13:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/18/22 10:00	05/18/22 13:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/18/22 10:00	05/18/22 13:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/18/22 10:00	05/18/22 13:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/18/22 10:00	05/18/22 13:54	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/18/22 10:00	05/18/22 13:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	05/18/22 10:00	05/18/22 13:54	1
1,4-Difluorobenzene (Surr)	97		70 - 130	05/18/22 10:00	05/18/22 13:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/18/22 09:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/18/22 08:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/17/22 09:13	05/18/22 18:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/17/22 09:13	05/18/22 18:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/17/22 09:13	05/18/22 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	152	S1+	70 - 130	05/17/22 09:13	05/18/22 18:16	1
o-Terphenyl	155	S1+	70 - 130	05/17/22 09:13	05/18/22 18:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7480		49.5	mg/Kg			05/18/22 21:38	10

Client Sample ID: PH02B

Lab Sample ID: 890-2313-7

Date Collected: 05/12/22 11:10

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/18/22 10:00	05/18/22 14:14	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/18/22 10:00	05/18/22 14:14	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/18/22 10:00	05/18/22 14:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/18/22 10:00	05/18/22 14:14	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/18/22 10:00	05/18/22 14:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/18/22 10:00	05/18/22 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	05/18/22 10:00	05/18/22 14:14	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Client Sample ID: PH02B

Lab Sample ID: 890-2313-7

Date Collected: 05/12/22 11:10

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96		70 - 130	05/18/22 10:00	05/18/22 14:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/18/22 09:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/18/22 08:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/17/22 09:13	05/18/22 18:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/17/22 09:13	05/18/22 18:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/17/22 09:13	05/18/22 18:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130			05/17/22 09:13	05/18/22 18:37	1
o-Terphenyl	133	S1+	70 - 130			05/17/22 09:13	05/18/22 18:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4310		50.5	mg/Kg			05/18/22 21:47	10

Client Sample ID: PH02C

Lab Sample ID: 890-2313-8

Date Collected: 05/12/22 11:30

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/16/22 15:56	05/17/22 21:24	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/16/22 15:56	05/17/22 21:24	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/16/22 15:56	05/17/22 21:24	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		05/16/22 15:56	05/17/22 21:24	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/16/22 15:56	05/17/22 21:24	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		05/16/22 15:56	05/17/22 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	05/16/22 15:56	05/17/22 21:24	1
1,4-Difluorobenzene (Surr)	91		70 - 130	05/16/22 15:56	05/17/22 21:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			05/18/22 09:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/18/22 08:44	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Client Sample ID: PH02C

Lab Sample ID: 890-2313-8

Date Collected: 05/12/22 11:30

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 4

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/17/22 09:13	05/18/22 18:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/17/22 09:13	05/18/22 18:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/17/22 09:13	05/18/22 18:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			05/17/22 09:13	05/18/22 18:59	1
o-Terphenyl	107		70 - 130			05/17/22 09:13	05/18/22 18:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3240		24.9	mg/Kg			05/18/22 21:56	5

Client Sample ID: BH01

Lab Sample ID: 890-2313-9

Date Collected: 05/12/22 11:40

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/18/22 10:00	05/18/22 14:35	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/18/22 10:00	05/18/22 14:35	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/18/22 10:00	05/18/22 14:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/18/22 10:00	05/18/22 14:35	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/18/22 10:00	05/18/22 14:35	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/18/22 10:00	05/18/22 14:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			05/18/22 10:00	05/18/22 14:35	1
1,4-Difluorobenzene (Surr)	87		70 - 130			05/18/22 10:00	05/18/22 14:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/18/22 09:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/18/22 08:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/17/22 09:13	05/18/22 19:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/17/22 09:13	05/18/22 19:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/17/22 09:13	05/18/22 19:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			05/17/22 09:13	05/18/22 19:20	1
o-Terphenyl	105		70 - 130			05/17/22 09:13	05/18/22 19:20	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Client Sample ID: BH01

Lab Sample ID: 890-2313-9

Date Collected: 05/12/22 11:40

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4960		49.6	mg/Kg			05/18/22 22:06	10

Client Sample ID: BH01A

Lab Sample ID: 890-2313-10

Date Collected: 05/12/22 12:00

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/18/22 10:00	05/18/22 14:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/18/22 10:00	05/18/22 14:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/18/22 10:00	05/18/22 14:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/18/22 10:00	05/18/22 14:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/18/22 10:00	05/18/22 14:55	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/18/22 10:00	05/18/22 14:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			05/18/22 10:00	05/18/22 14:55	1
1,4-Difluorobenzene (Surr)	96		70 - 130			05/18/22 10:00	05/18/22 14:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/18/22 09:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/18/22 08:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/17/22 09:13	05/18/22 19:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/17/22 09:13	05/18/22 19:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/17/22 09:13	05/18/22 19:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130			05/17/22 09:13	05/18/22 19:41	1
o-Terphenyl	128		70 - 130			05/17/22 09:13	05/18/22 19:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3570		24.8	mg/Kg			05/18/22 22:15	5

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Client Sample ID: BH01B

Lab Sample ID: 890-2313-11

Date Collected: 05/12/22 12:10

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0222	U	0.0222	mg/Kg		05/16/22 15:56	05/18/22 00:28	1
Toluene	<0.0222	U	0.0222	mg/Kg		05/16/22 15:56	05/18/22 00:28	1
Ethylbenzene	<0.0222	U	0.0222	mg/Kg		05/16/22 15:56	05/18/22 00:28	1
m-Xylene & p-Xylene	<0.0444	U	0.0444	mg/Kg		05/16/22 15:56	05/18/22 00:28	1
o-Xylene	<0.0222	U	0.0222	mg/Kg		05/16/22 15:56	05/18/22 00:28	1
Xylenes, Total	<0.0444	U	0.0444	mg/Kg		05/16/22 15:56	05/18/22 00:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	05/16/22 15:56	05/18/22 00:28	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/16/22 15:56	05/18/22 00:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0444	U	0.0444	mg/Kg			05/18/22 09:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/18/22 08:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/17/22 09:13	05/18/22 20:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/17/22 09:13	05/18/22 20:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/17/22 09:13	05/18/22 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	05/17/22 09:13	05/18/22 20:02	1
o-Terphenyl	119		70 - 130	05/17/22 09:13	05/18/22 20:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3100		25.0	mg/Kg			05/18/22 22:24	5

Client Sample ID: BH01C

Lab Sample ID: 890-2313-12

Date Collected: 05/12/22 12:20

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/16/22 15:56	05/18/22 00:54	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/16/22 15:56	05/18/22 00:54	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/16/22 15:56	05/18/22 00:54	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/16/22 15:56	05/18/22 00:54	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/16/22 15:56	05/18/22 00:54	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/16/22 15:56	05/18/22 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	05/16/22 15:56	05/18/22 00:54	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Client Sample ID: BH01C

Lab Sample ID: 890-2313-12

Date Collected: 05/12/22 12:20

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92		70 - 130	05/16/22 15:56	05/18/22 00:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			05/18/22 09:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/18/22 08:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/17/22 09:13	05/18/22 20:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/17/22 09:13	05/18/22 20:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/17/22 09:13	05/18/22 20:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			05/17/22 09:13	05/18/22 20:23	1
o-Terphenyl	117		70 - 130			05/17/22 09:13	05/18/22 20:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	931		4.95	mg/Kg			05/18/22 22:52	1

Client Sample ID: BH02

Lab Sample ID: 890-2313-13

Date Collected: 05/12/22 12:30

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/16/22 15:56	05/18/22 01:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/16/22 15:56	05/18/22 01:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/16/22 15:56	05/18/22 01:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/16/22 15:56	05/18/22 01:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/16/22 15:56	05/18/22 01:20	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/16/22 15:56	05/18/22 01:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	05/16/22 15:56	05/18/22 01:20	1
1,4-Difluorobenzene (Surr)	87		70 - 130	05/16/22 15:56	05/18/22 01:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/18/22 09:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/18/22 08:44	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Client Sample ID: BH02

Lab Sample ID: 890-2313-13

Date Collected: 05/12/22 12:30

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/17/22 09:13	05/18/22 20:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/17/22 09:13	05/18/22 20:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/17/22 09:13	05/18/22 20:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			05/17/22 09:13	05/18/22 20:45	1
o-Terphenyl	100		70 - 130			05/17/22 09:13	05/18/22 20:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	205		4.96	mg/Kg			05/18/22 23:01	1

Client Sample ID: BH02A

Lab Sample ID: 890-2313-14

Date Collected: 05/12/22 12:45

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/16/22 15:56	05/18/22 01:47	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/16/22 15:56	05/18/22 01:47	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/16/22 15:56	05/18/22 01:47	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/16/22 15:56	05/18/22 01:47	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/16/22 15:56	05/18/22 01:47	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/16/22 15:56	05/18/22 01:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			05/16/22 15:56	05/18/22 01:47	1
1,4-Difluorobenzene (Surr)	102		70 - 130			05/16/22 15:56	05/18/22 01:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			05/18/22 09:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/18/22 08:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/18/22 09:02	05/18/22 15:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/18/22 09:02	05/18/22 15:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/18/22 09:02	05/18/22 15:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			05/18/22 09:02	05/18/22 15:10	1
o-Terphenyl	108		70 - 130			05/18/22 09:02	05/18/22 15:10	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Client Sample ID: BH02A

Lab Sample ID: 890-2313-14

Date Collected: 05/12/22 12:45

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	798		5.01	mg/Kg			05/18/22 23:28	1

Client Sample ID: BH02B

Lab Sample ID: 890-2313-15

Date Collected: 05/12/22 13:00

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/16/22 15:56	05/18/22 02:14	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/16/22 15:56	05/18/22 02:14	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/16/22 15:56	05/18/22 02:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/16/22 15:56	05/18/22 02:14	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/16/22 15:56	05/18/22 02:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/16/22 15:56	05/18/22 02:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			05/16/22 15:56	05/18/22 02:14	1
1,4-Difluorobenzene (Surr)	90		70 - 130			05/16/22 15:56	05/18/22 02:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/18/22 09:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	93.0		50.0	mg/Kg			05/18/22 08:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	93.0		50.0	mg/Kg		05/18/22 09:02	05/18/22 15:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/18/22 09:02	05/18/22 15:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/18/22 09:02	05/18/22 15:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130			05/18/22 09:02	05/18/22 15:34	1
o-Terphenyl	143	S1+	70 - 130			05/18/22 09:02	05/18/22 15:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.8		4.97	mg/Kg			05/18/22 23:38	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Client Sample ID: BH02C

Lab Sample ID: 890-2313-16

Date Collected: 05/12/22 13:20

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/16/22 15:56	05/18/22 02:40	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/16/22 15:56	05/18/22 02:40	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/16/22 15:56	05/18/22 02:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/16/22 15:56	05/18/22 02:40	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/16/22 15:56	05/18/22 02:40	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/16/22 15:56	05/18/22 02:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	05/16/22 15:56	05/18/22 02:40	1
1,4-Difluorobenzene (Surr)	111		70 - 130	05/16/22 15:56	05/18/22 02:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/18/22 09:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/18/22 08:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/18/22 09:02	05/18/22 15:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/18/22 09:02	05/18/22 15:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/18/22 09:02	05/18/22 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	05/18/22 09:02	05/18/22 15:57	1
o-Terphenyl	117		70 - 130	05/18/22 09:02	05/18/22 15:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.6		4.98	mg/Kg			05/18/22 23:47	1

Client Sample ID: BH03

Lab Sample ID: 890-2313-17

Date Collected: 05/12/22 13:40

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/16/22 15:56	05/18/22 03:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/16/22 15:56	05/18/22 03:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/16/22 15:56	05/18/22 03:06	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/16/22 15:56	05/18/22 03:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/16/22 15:56	05/18/22 03:06	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/16/22 15:56	05/18/22 03:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	05/16/22 15:56	05/18/22 03:06	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Client Sample ID: BH03

Lab Sample ID: 890-2313-17

Date Collected: 05/12/22 13:40

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	05/16/22 15:56	05/18/22 03:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/18/22 09:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/18/22 08:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/18/22 09:02	05/18/22 16:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/18/22 09:02	05/18/22 16:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/18/22 09:02	05/18/22 16:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			05/18/22 09:02	05/18/22 16:20	1
o-Terphenyl	123		70 - 130			05/18/22 09:02	05/18/22 16:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2050		25.0	mg/Kg			05/18/22 23:56	5

Client Sample ID: BH03A

Lab Sample ID: 890-2313-18

Date Collected: 05/12/22 14:00

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/16/22 15:56	05/18/22 03:32	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/16/22 15:56	05/18/22 03:32	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/16/22 15:56	05/18/22 03:32	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/16/22 15:56	05/18/22 03:32	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/16/22 15:56	05/18/22 03:32	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/16/22 15:56	05/18/22 03:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	05/16/22 15:56	05/18/22 03:32	1
1,4-Difluorobenzene (Surr)	97		70 - 130	05/16/22 15:56	05/18/22 03:32	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			05/18/22 09:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/18/22 08:44	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Client Sample ID: BH03A

Lab Sample ID: 890-2313-18

Date Collected: 05/12/22 14:00

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 2

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/18/22 09:02	05/18/22 16:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/18/22 09:02	05/18/22 16:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/18/22 09:02	05/18/22 16:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			05/18/22 09:02	05/18/22 16:42	1
o-Terphenyl	115		70 - 130			05/18/22 09:02	05/18/22 16:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	172		5.00	mg/Kg			05/19/22 00:05	1

Client Sample ID: BH03B

Lab Sample ID: 890-2313-19

Date Collected: 05/12/22 14:20

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/16/22 15:56	05/18/22 03:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/16/22 15:56	05/18/22 03:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/16/22 15:56	05/18/22 03:59	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/16/22 15:56	05/18/22 03:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/16/22 15:56	05/18/22 03:59	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/16/22 15:56	05/18/22 03:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			05/16/22 15:56	05/18/22 03:59	1
1,4-Difluorobenzene (Surr)	102		70 - 130			05/16/22 15:56	05/18/22 03:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/18/22 09:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/18/22 08:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/18/22 09:02	05/18/22 17:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/18/22 09:02	05/18/22 17:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/18/22 09:02	05/18/22 17:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			05/18/22 09:02	05/18/22 17:28	1
o-Terphenyl	121		70 - 130			05/18/22 09:02	05/18/22 17:28	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Client Sample ID: BH03B

Lab Sample ID: 890-2313-19

Date Collected: 05/12/22 14:20

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 3

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	704		4.99	mg/Kg			05/19/22 00:14	1

Client Sample ID: BH03C

Lab Sample ID: 890-2313-20

Date Collected: 05/12/22 14:30

Matrix: Solid

Date Received: 05/13/22 16:08

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/16/22 15:56	05/18/22 04:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/16/22 15:56	05/18/22 04:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/16/22 15:56	05/18/22 04:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/16/22 15:56	05/18/22 04:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/16/22 15:56	05/18/22 04:26	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/16/22 15:56	05/18/22 04:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			05/16/22 15:56	05/18/22 04:26	1
1,4-Difluorobenzene (Surr)	103		70 - 130			05/16/22 15:56	05/18/22 04:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/18/22 09:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/18/22 08:44	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/18/22 09:02	05/18/22 17:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/18/22 09:02	05/18/22 17:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/18/22 09:02	05/18/22 17:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			05/18/22 09:02	05/18/22 17:49	1
o-Terphenyl	123		70 - 130			05/18/22 09:02	05/18/22 17:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	312		4.96	mg/Kg			05/19/22 00:24	1

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Surrogate Summary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
880-14809-A-10-A MS	Matrix Spike	103	88				
880-14809-A-10-B MSD	Matrix Spike Duplicate	107	93				
890-2311-A-10-G MS	Matrix Spike	102	92				
890-2311-A-10-H MSD	Matrix Spike Duplicate	107	97				
890-2313-1	PH01	107	97				
890-2313-2	PH01A	109	96				
890-2313-3	PH01B	115	95				
890-2313-3 MS	PH01B	106	96				
890-2313-3 MSD	PH01B	105	96				
890-2313-4	PH01C	108	97				
890-2313-5	PH02	101	92				
890-2313-6	PH02A	107	97				
890-2313-7	PH02B	111	96				
890-2313-8	PH02C	113	91				
890-2313-9	BH01	112	87				
890-2313-10	BH01A	115	96				
890-2313-11	BH01B	120	95				
890-2313-12	BH01C	117	92				
890-2313-13	BH02	112	87				
890-2313-14	BH02A	110	102				
890-2313-15	BH02B	118	90				
890-2313-16	BH02C	99	111				
890-2313-17	BH03	119	97				
890-2313-18	BH03A	122	97				
890-2313-19	BH03B	115	102				
890-2313-20	BH03C	115	103				
LCS 880-25650/1-A	Lab Control Sample	101	98				
LCS 880-25653/1-A	Lab Control Sample	102	94				
LCS 880-25810/1-A	Lab Control Sample	105	97				
LCSD 880-25650/2-A	Lab Control Sample Dup	100	97				
LCSD 880-25653/2-A	Lab Control Sample Dup	101	95				
LCSD 880-25810/2-A	Lab Control Sample Dup	104	97				
MB 880-25638/5-A	Method Blank	102	92				
MB 880-25650/5-A	Method Blank	103	92				
MB 880-25653/5-A	Method Blank	82	93				
MB 880-25810/5-A	Method Blank	103	92				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
880-14808-A-1-F MS	Matrix Spike	101	107				
880-14808-A-1-G MSD	Matrix Spike Duplicate	92	95				
880-14811-A-1-B MS	Matrix Spike	91	82				

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Surrogate Summary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-14811-A-1-C MSD	Matrix Spike Duplicate	91	83
880-14856-A-1-F MS	Matrix Spike	110	103
880-14856-A-1-G MSD	Matrix Spike Duplicate	97	94
890-2313-1	PH01	110	119
890-2313-2	PH01A	118	118
890-2313-3	PH01B	113	113
890-2313-4	PH01C	141 S1+	150 S1+
890-2313-5	PH02	144 S1+	153 S1+
890-2313-6	PH02A	152 S1+	155 S1+
890-2313-7	PH02B	126	133 S1+
890-2313-8	PH02C	102	107
890-2313-9	BH01	101	105
890-2313-10	BH01A	121	128
890-2313-11	BH01B	116	119
890-2313-12	BH01C	114	117
890-2313-13	BH02	100	100
890-2313-14	BH02A	99	108
890-2313-15	BH02B	132 S1+	143 S1+
890-2313-16	BH02C	102	117
890-2313-17	BH03	107	123
890-2313-18	BH03A	104	115
890-2313-19	BH03B	107	121
890-2313-20	BH03C	106	123
LCS 880-25675/2-A	Lab Control Sample	110	108
LCS 880-25676/2-A	Lab Control Sample	127	115
LCS 880-25793/2-A	Lab Control Sample	102	109
LCSD 880-25675/3-A	Lab Control Sample Dup	107	104
LCSD 880-25676/3-A	Lab Control Sample Dup	127	116
LCSD 880-25793/3-A	Lab Control Sample Dup	104	104
MB 880-25675/1-A	Method Blank	108	117
MB 880-25793/1-A	Method Blank	125	146 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25638/5-A

Matrix: Solid

Analysis Batch: 25671

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25638

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/16/22 13:46	05/17/22 12:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/16/22 13:46	05/17/22 12:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/16/22 13:46	05/17/22 12:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/16/22 13:46	05/17/22 12:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/16/22 13:46	05/17/22 12:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/16/22 13:46	05/17/22 12:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	05/16/22 13:46	05/17/22 12:34	1
1,4-Difluorobenzene (Surr)	92		70 - 130	05/16/22 13:46	05/17/22 12:34	1

Lab Sample ID: MB 880-25650/5-A

Matrix: Solid

Analysis Batch: 25671

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25650

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/16/22 15:47	05/17/22 23:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/16/22 15:47	05/17/22 23:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/16/22 15:47	05/17/22 23:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/16/22 15:47	05/17/22 23:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/16/22 15:47	05/17/22 23:14	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/16/22 15:47	05/17/22 23:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	05/16/22 15:47	05/17/22 23:14	1
1,4-Difluorobenzene (Surr)	92		70 - 130	05/16/22 15:47	05/17/22 23:14	1

Lab Sample ID: LCS 880-25650/1-A

Matrix: Solid

Analysis Batch: 25671

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25650

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09107		mg/Kg		91	70 - 130
Toluene	0.100	0.09370		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09393		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1875		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09558		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-25650/2-A

Matrix: Solid

Analysis Batch: 25671

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25650

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08989		mg/Kg		90	70 - 130	1	35

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QC Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-25650/2-A

Matrix: Solid

Analysis Batch: 25671

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25650

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09176		mg/Kg		92	70 - 130	2	35
Ethylbenzene	0.100	0.09217		mg/Kg		92	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1838		mg/Kg		92	70 - 130	2	35
o-Xylene	0.100	0.09342		mg/Kg		93	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-2311-A-10-G MS

Matrix: Solid

Analysis Batch: 25671

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25650

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1 F2	0.101	0.03338	F1	mg/Kg		33	70 - 130
Toluene	<0.00201	U F1 F2	0.101	0.03913	F1	mg/Kg		39	70 - 130
Ethylbenzene	<0.00201	U F1 F2	0.101	0.04233	F1	mg/Kg		42	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.202	0.08890	F1	mg/Kg		44	70 - 130
o-Xylene	<0.00201	U F1 F2	0.101	0.04765	F1	mg/Kg		47	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 890-2311-A-10-H MSD

Matrix: Solid

Analysis Batch: 25671

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25650

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1 F2	0.0998	0.06906	F1 F2	mg/Kg		69	70 - 130	70	35
Toluene	<0.00201	U F1 F2	0.0998	0.07275	F2	mg/Kg		73	70 - 130	60	35
Ethylbenzene	<0.00201	U F1 F2	0.0998	0.07396	F2	mg/Kg		74	70 - 130	54	35
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.200	0.1482	F2	mg/Kg		74	70 - 130	50	35
o-Xylene	<0.00201	U F1 F2	0.0998	0.07416	F2	mg/Kg		74	70 - 130	44	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: MB 880-25653/5-A

Matrix: Solid

Analysis Batch: 25750

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25653

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/16/22 15:56	05/17/22 18:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/16/22 15:56	05/17/22 18:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/16/22 15:56	05/17/22 18:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/16/22 15:56	05/17/22 18:16	1

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QC Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-25653/5-A

Matrix: Solid

Analysis Batch: 25750

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25653

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/16/22 15:56	05/17/22 18:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/16/22 15:56	05/17/22 18:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	05/16/22 15:56	05/17/22 18:16	1
1,4-Difluorobenzene (Surr)	93		70 - 130	05/16/22 15:56	05/17/22 18:16	1

Lab Sample ID: LCS 880-25653/1-A

Matrix: Solid

Analysis Batch: 25750

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25653

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09157		mg/Kg		92	70 - 130
Toluene	0.100	0.09298		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09072		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1805		mg/Kg		90	70 - 130
o-Xylene	0.100	0.09064		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-25653/2-A

Matrix: Solid

Analysis Batch: 25750

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25653

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1007		mg/Kg		101	70 - 130	9	35
Toluene	0.100	0.1029		mg/Kg		103	70 - 130	10	35
Ethylbenzene	0.100	0.1014		mg/Kg		101	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.2050		mg/Kg		103	70 - 130	13	35
o-Xylene	0.100	0.1090		mg/Kg		109	70 - 130	18	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-14809-A-10-A MS

Matrix: Solid

Analysis Batch: 25750

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25653

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U F1	0.100	0.07949		mg/Kg		79	70 - 130
Toluene	<0.00202	U	0.100	0.08307		mg/Kg		83	70 - 130
Ethylbenzene	<0.00202	U	0.100	0.08620		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1736		mg/Kg		87	70 - 130
o-Xylene	<0.00202	U	0.100	0.08637		mg/Kg		86	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-14809-A-10-A MS

Matrix: Solid

Analysis Batch: 25750

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25653

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 880-14809-A-10-B MSD

Matrix: Solid

Analysis Batch: 25750

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25653

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.0990	0.06488	F1	mg/Kg		66	70 - 130	20	35
Toluene	<0.00202	U	0.0990	0.07059		mg/Kg		71	70 - 130	16	35
Ethylbenzene	<0.00202	U	0.0990	0.07525		mg/Kg		76	70 - 130	14	35
m-Xylene & p-Xylene	<0.00403	U	0.198	0.1500		mg/Kg		76	70 - 130	15	35
o-Xylene	<0.00202	U	0.0990	0.07580		mg/Kg		77	70 - 130	13	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: MB 880-25810/5-A

Matrix: Solid

Analysis Batch: 25796

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25810

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/18/22 10:00	05/18/22 12:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/18/22 10:00	05/18/22 12:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/18/22 10:00	05/18/22 12:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/18/22 10:00	05/18/22 12:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/18/22 10:00	05/18/22 12:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/18/22 10:00	05/18/22 12:30	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	103		70 - 130	05/18/22 10:00	05/18/22 12:30	1		
1,4-Difluorobenzene (Surr)	92		70 - 130	05/18/22 10:00	05/18/22 12:30	1		

Lab Sample ID: LCS 880-25810/1-A

Matrix: Solid

Analysis Batch: 25796

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25810

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09631		mg/Kg		96	70 - 130
Toluene	0.100	0.1046		mg/Kg		105	70 - 130
Ethylbenzene	0.100	0.1072		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.2170		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1089		mg/Kg		109	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-25810/1-A

Matrix: Solid

Analysis Batch: 25796

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25810

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-25810/2-A

Matrix: Solid

Analysis Batch: 25796

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25810

	LCS	LCS							%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Benzene	0.100	0.09320		mg/Kg		93	70 - 130	3	35		
Toluene	0.100	0.1010		mg/Kg		101	70 - 130	3	35		
Ethylbenzene	0.100	0.1029		mg/Kg		103	70 - 130	4	35		
m-Xylene & p-Xylene	0.200	0.2089		mg/Kg		104	70 - 130	4	35		
o-Xylene	0.100	0.1042		mg/Kg		104	70 - 130	4	35		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-2313-3 MS

Matrix: Solid

Analysis Batch: 25796

Client Sample ID: PH01B

Prep Type: Total/NA

Prep Batch: 25810

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0998	0.09186		mg/Kg		92	70 - 130		
Toluene	<0.00200	U	0.0998	0.1000		mg/Kg		100	70 - 130		
Ethylbenzene	<0.00200	U	0.0998	0.1022		mg/Kg		102	70 - 130		
m-Xylene & p-Xylene	<0.00401	U	0.200	0.2077		mg/Kg		104	70 - 130		
o-Xylene	<0.00200	U	0.0998	0.1047		mg/Kg		105	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-2313-3 MSD

Matrix: Solid

Analysis Batch: 25796

Client Sample ID: PH01B

Prep Type: Total/NA

Prep Batch: 25810

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0996	0.08593		mg/Kg		86	70 - 130	7	35
Toluene	<0.00200	U	0.0996	0.09273		mg/Kg		93	70 - 130	8	35
Ethylbenzene	<0.00200	U	0.0996	0.09535		mg/Kg		96	70 - 130	7	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1938		mg/Kg		97	70 - 130	7	35
o-Xylene	<0.00200	U	0.0996	0.09663		mg/Kg		97	70 - 130	8	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-25675/1-A

Matrix: Solid

Analysis Batch: 25770

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25675

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/17/22 09:13	05/18/22 11:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/17/22 09:13	05/18/22 11:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/17/22 09:13	05/18/22 11:45	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			05/17/22 09:13	05/18/22 11:45	1
o-Terphenyl	117		70 - 130			05/17/22 09:13	05/18/22 11:45	1

Lab Sample ID: LCS 880-25675/2-A

Matrix: Solid

Analysis Batch: 25770

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	912.0		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1047		mg/Kg		105	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	110		70 - 130				
o-Terphenyl	108		70 - 130				

Lab Sample ID: LCSD 880-25675/3-A

Matrix: Solid

Analysis Batch: 25770

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25675

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	897.6		mg/Kg		90	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1002		mg/Kg		100	70 - 130	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	107		70 - 130						
o-Terphenyl	104		70 - 130						

Lab Sample ID: 880-14808-A-1-F MS

Matrix: Solid

Analysis Batch: 25770

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25675

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	988.2		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1057		mg/Kg		106	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-14808-A-1-F MS

Matrix: Solid

Analysis Batch: 25770

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25675

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: 880-14808-A-1-G MSD

Matrix: Solid

Analysis Batch: 25770

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25675

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	916.2		mg/Kg		88	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	954.6		mg/Kg		96	70 - 130	10	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	92		70 - 130								
o-Terphenyl	95		70 - 130								

Lab Sample ID: LCS 880-25676/2-A

Matrix: Solid

Analysis Batch: 25684

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25676

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1246		mg/Kg		125	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1072		mg/Kg		107	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	127		70 - 130						
o-Terphenyl	115		70 - 130						

Lab Sample ID: LCSD 880-25676/3-A

Matrix: Solid

Analysis Batch: 25684

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25676

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1186		mg/Kg		119	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1079		mg/Kg		108	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	127		70 - 130						
o-Terphenyl	116		70 - 130						

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QC Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-14811-A-1-B MS

Matrix: Solid

Analysis Batch: 25684

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25676

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1206		mg/Kg		118	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	951.8		mg/Kg		95	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	91		70 - 130						
o-Terphenyl	82		70 - 130						

Lab Sample ID: 880-14811-A-1-C MSD

Matrix: Solid

Analysis Batch: 25684

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25676

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1167		mg/Kg		114	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	951.2		mg/Kg		95	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	91		70 - 130								
o-Terphenyl	83		70 - 130								

Lab Sample ID: MB 880-25793/1-A

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25793

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/18/22 09:02	05/18/22 11:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/18/22 09:02	05/18/22 11:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/18/22 09:02	05/18/22 11:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130			05/18/22 09:02	05/18/22 11:29	1
o-Terphenyl	146	S1+	70 - 130			05/18/22 09:02	05/18/22 11:29	1

Lab Sample ID: LCS 880-25793/2-A

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25793

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1132		mg/Kg		113	70 - 130
Diesel Range Organics (Over C10-C28)	1000	861.2		mg/Kg		86	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-25793/2-A

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25793

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: LCSD 880-25793/3-A

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25793

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1105		mg/Kg		111	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	823.0		mg/Kg		82	70 - 130	5	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 880-14856-A-1-F MS

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25793

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	98.5	F1	1000	1616	F1	mg/Kg		152	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1204		mg/Kg		120	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: 880-14856-A-1-G MSD

Matrix: Solid

Analysis Batch: 25772

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25793

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	98.5	F1	999	1379		mg/Kg		128	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1072		mg/Kg		107	70 - 130	12	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	94		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25614/1-A

Matrix: Solid

Analysis Batch: 25824

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/18/22 19:47	1

Lab Sample ID: LCS 880-25614/2-A

Matrix: Solid

Analysis Batch: 25824

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	239.7		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-25614/3-A

Matrix: Solid

Analysis Batch: 25824

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	239.8		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 890-2313-1 MS

Matrix: Solid

Analysis Batch: 25824

Client Sample ID: PH01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3110		1240	4454		mg/Kg		109	90 - 110

Lab Sample ID: 890-2313-1 MSD

Matrix: Solid

Analysis Batch: 25824

Client Sample ID: PH01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3110		1240	4457		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 890-2313-11 MS

Matrix: Solid

Analysis Batch: 25824

Client Sample ID: BH01B

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3100		1250	4375		mg/Kg		102	90 - 110

Lab Sample ID: 890-2313-11 MSD

Matrix: Solid

Analysis Batch: 25824

Client Sample ID: BH01B

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3100		1250	4350		mg/Kg		100	90 - 110	1	20

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QC Association Summary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

GC VOA

Prep Batch: 25638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-25638/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 25650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2313-1	PH01	Total/NA	Solid	5035	
890-2313-2	PH01A	Total/NA	Solid	5035	
MB 880-25650/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25650/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25650/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2311-A-10-G MS	Matrix Spike	Total/NA	Solid	5035	
890-2311-A-10-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 25653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2313-8	PH02C	Total/NA	Solid	5035	
890-2313-11	BH01B	Total/NA	Solid	5035	
890-2313-12	BH01C	Total/NA	Solid	5035	
890-2313-13	BH02	Total/NA	Solid	5035	
890-2313-14	BH02A	Total/NA	Solid	5035	
890-2313-15	BH02B	Total/NA	Solid	5035	
890-2313-16	BH02C	Total/NA	Solid	5035	
890-2313-17	BH03	Total/NA	Solid	5035	
890-2313-18	BH03A	Total/NA	Solid	5035	
890-2313-19	BH03B	Total/NA	Solid	5035	
890-2313-20	BH03C	Total/NA	Solid	5035	
MB 880-25653/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25653/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25653/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14809-A-10-A MS	Matrix Spike	Total/NA	Solid	5035	
880-14809-A-10-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 25671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2313-1	PH01	Total/NA	Solid	8021B	25650
890-2313-2	PH01A	Total/NA	Solid	8021B	25650
MB 880-25638/5-A	Method Blank	Total/NA	Solid	8021B	25638
MB 880-25650/5-A	Method Blank	Total/NA	Solid	8021B	25650
LCS 880-25650/1-A	Lab Control Sample	Total/NA	Solid	8021B	25650
LCSD 880-25650/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25650
890-2311-A-10-G MS	Matrix Spike	Total/NA	Solid	8021B	25650
890-2311-A-10-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25650

Analysis Batch: 25750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2313-8	PH02C	Total/NA	Solid	8021B	25653
890-2313-11	BH01B	Total/NA	Solid	8021B	25653
890-2313-12	BH01C	Total/NA	Solid	8021B	25653
890-2313-13	BH02	Total/NA	Solid	8021B	25653
890-2313-14	BH02A	Total/NA	Solid	8021B	25653
890-2313-15	BH02B	Total/NA	Solid	8021B	25653
890-2313-16	BH02C	Total/NA	Solid	8021B	25653

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QC Association Summary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

GC VOA (Continued)

Analysis Batch: 25750 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2313-17	BH03	Total/NA	Solid	8021B	25653
890-2313-18	BH03A	Total/NA	Solid	8021B	25653
890-2313-19	BH03B	Total/NA	Solid	8021B	25653
890-2313-20	BH03C	Total/NA	Solid	8021B	25653
MB 880-25653/5-A	Method Blank	Total/NA	Solid	8021B	25653
LCS 880-25653/1-A	Lab Control Sample	Total/NA	Solid	8021B	25653
LCSD 880-25653/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25653
880-14809-A-10-A MS	Matrix Spike	Total/NA	Solid	8021B	25653
880-14809-A-10-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25653

Analysis Batch: 25796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2313-3	PH01B	Total/NA	Solid	8021B	25810
890-2313-4	PH01C	Total/NA	Solid	8021B	25810
890-2313-5	PH02	Total/NA	Solid	8021B	25810
890-2313-6	PH02A	Total/NA	Solid	8021B	25810
890-2313-7	PH02B	Total/NA	Solid	8021B	25810
890-2313-9	BH01	Total/NA	Solid	8021B	25810
890-2313-10	BH01A	Total/NA	Solid	8021B	25810
MB 880-25810/5-A	Method Blank	Total/NA	Solid	8021B	25810
LCS 880-25810/1-A	Lab Control Sample	Total/NA	Solid	8021B	25810
LCSD 880-25810/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25810
890-2313-3 MS	PH01B	Total/NA	Solid	8021B	25810
890-2313-3 MSD	PH01B	Total/NA	Solid	8021B	25810

Analysis Batch: 25801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2313-1	PH01	Total/NA	Solid	Total BTEX	
890-2313-2	PH01A	Total/NA	Solid	Total BTEX	
890-2313-3	PH01B	Total/NA	Solid	Total BTEX	
890-2313-4	PH01C	Total/NA	Solid	Total BTEX	
890-2313-5	PH02	Total/NA	Solid	Total BTEX	
890-2313-6	PH02A	Total/NA	Solid	Total BTEX	
890-2313-7	PH02B	Total/NA	Solid	Total BTEX	
890-2313-8	PH02C	Total/NA	Solid	Total BTEX	
890-2313-9	BH01	Total/NA	Solid	Total BTEX	
890-2313-10	BH01A	Total/NA	Solid	Total BTEX	
890-2313-11	BH01B	Total/NA	Solid	Total BTEX	
890-2313-12	BH01C	Total/NA	Solid	Total BTEX	
890-2313-13	BH02	Total/NA	Solid	Total BTEX	
890-2313-14	BH02A	Total/NA	Solid	Total BTEX	
890-2313-15	BH02B	Total/NA	Solid	Total BTEX	
890-2313-16	BH02C	Total/NA	Solid	Total BTEX	
890-2313-17	BH03	Total/NA	Solid	Total BTEX	
890-2313-18	BH03A	Total/NA	Solid	Total BTEX	
890-2313-19	BH03B	Total/NA	Solid	Total BTEX	
890-2313-20	BH03C	Total/NA	Solid	Total BTEX	

Prep Batch: 25810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2313-3	PH01B	Total/NA	Solid	5035	

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QC Association Summary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

GC VOA (Continued)

Prep Batch: 25810 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2313-4	PH01C	Total/NA	Solid	5035	
890-2313-5	PH02	Total/NA	Solid	5035	
890-2313-6	PH02A	Total/NA	Solid	5035	
890-2313-7	PH02B	Total/NA	Solid	5035	
890-2313-9	BH01	Total/NA	Solid	5035	
890-2313-10	BH01A	Total/NA	Solid	5035	
MB 880-25810/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25810/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25810/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2313-3 MS	PH01B	Total/NA	Solid	5035	
890-2313-3 MSD	PH01B	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 25675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2313-2	PH01A	Total/NA	Solid	8015NM Prep	
890-2313-3	PH01B	Total/NA	Solid	8015NM Prep	
890-2313-4	PH01C	Total/NA	Solid	8015NM Prep	
890-2313-5	PH02	Total/NA	Solid	8015NM Prep	
890-2313-6	PH02A	Total/NA	Solid	8015NM Prep	
890-2313-7	PH02B	Total/NA	Solid	8015NM Prep	
890-2313-8	PH02C	Total/NA	Solid	8015NM Prep	
890-2313-9	BH01	Total/NA	Solid	8015NM Prep	
890-2313-10	BH01A	Total/NA	Solid	8015NM Prep	
890-2313-11	BH01B	Total/NA	Solid	8015NM Prep	
890-2313-12	BH01C	Total/NA	Solid	8015NM Prep	
890-2313-13	BH02	Total/NA	Solid	8015NM Prep	
MB 880-25675/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25675/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25675/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14808-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-14808-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 25676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2313-1	PH01	Total/NA	Solid	8015NM Prep	
LCS 880-25676/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25676/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14811-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-14811-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 25684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2313-1	PH01	Total/NA	Solid	8015B NM	25676
LCS 880-25676/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25676
LCSD 880-25676/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25676
880-14811-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	25676
880-14811-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	25676

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QC Association Summary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

GC Semi VOA

Analysis Batch: 25770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2313-2	PH01A	Total/NA	Solid	8015B NM	25675
890-2313-3	PH01B	Total/NA	Solid	8015B NM	25675
890-2313-4	PH01C	Total/NA	Solid	8015B NM	25675
890-2313-5	PH02	Total/NA	Solid	8015B NM	25675
890-2313-6	PH02A	Total/NA	Solid	8015B NM	25675
890-2313-7	PH02B	Total/NA	Solid	8015B NM	25675
890-2313-8	PH02C	Total/NA	Solid	8015B NM	25675
890-2313-9	BH01	Total/NA	Solid	8015B NM	25675
890-2313-10	BH01A	Total/NA	Solid	8015B NM	25675
890-2313-11	BH01B	Total/NA	Solid	8015B NM	25675
890-2313-12	BH01C	Total/NA	Solid	8015B NM	25675
890-2313-13	BH02	Total/NA	Solid	8015B NM	25675
MB 880-25675/1-A	Method Blank	Total/NA	Solid	8015B NM	25675
LCS 880-25675/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25675
LCSD 880-25675/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25675
880-14808-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	25675
880-14808-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	25675

Analysis Batch: 25772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2313-14	BH02A	Total/NA	Solid	8015B NM	25793
890-2313-15	BH02B	Total/NA	Solid	8015B NM	25793
890-2313-16	BH02C	Total/NA	Solid	8015B NM	25793
890-2313-17	BH03	Total/NA	Solid	8015B NM	25793
890-2313-18	BH03A	Total/NA	Solid	8015B NM	25793
890-2313-19	BH03B	Total/NA	Solid	8015B NM	25793
890-2313-20	BH03C	Total/NA	Solid	8015B NM	25793
MB 880-25793/1-A	Method Blank	Total/NA	Solid	8015B NM	25793
LCS 880-25793/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25793
LCSD 880-25793/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25793
880-14856-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	25793
880-14856-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	25793

Analysis Batch: 25785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2313-1	PH01	Total/NA	Solid	8015 NM	
890-2313-2	PH01A	Total/NA	Solid	8015 NM	
890-2313-3	PH01B	Total/NA	Solid	8015 NM	
890-2313-4	PH01C	Total/NA	Solid	8015 NM	
890-2313-5	PH02	Total/NA	Solid	8015 NM	
890-2313-6	PH02A	Total/NA	Solid	8015 NM	
890-2313-7	PH02B	Total/NA	Solid	8015 NM	
890-2313-8	PH02C	Total/NA	Solid	8015 NM	
890-2313-9	BH01	Total/NA	Solid	8015 NM	
890-2313-10	BH01A	Total/NA	Solid	8015 NM	
890-2313-11	BH01B	Total/NA	Solid	8015 NM	
890-2313-12	BH01C	Total/NA	Solid	8015 NM	
890-2313-13	BH02	Total/NA	Solid	8015 NM	
890-2313-14	BH02A	Total/NA	Solid	8015 NM	
890-2313-15	BH02B	Total/NA	Solid	8015 NM	
890-2313-16	BH02C	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

GC Semi VOA (Continued)

Analysis Batch: 25785 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2313-17	BH03	Total/NA	Solid	8015 NM	
890-2313-18	BH03A	Total/NA	Solid	8015 NM	
890-2313-19	BH03B	Total/NA	Solid	8015 NM	
890-2313-20	BH03C	Total/NA	Solid	8015 NM	

Prep Batch: 25793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2313-14	BH02A	Total/NA	Solid	8015NM Prep	
890-2313-15	BH02B	Total/NA	Solid	8015NM Prep	
890-2313-16	BH02C	Total/NA	Solid	8015NM Prep	
890-2313-17	BH03	Total/NA	Solid	8015NM Prep	
890-2313-18	BH03A	Total/NA	Solid	8015NM Prep	
890-2313-19	BH03B	Total/NA	Solid	8015NM Prep	
890-2313-20	BH03C	Total/NA	Solid	8015NM Prep	
MB 880-25793/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25793/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25793/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14856-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-14856-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 25614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2313-1	PH01	Soluble	Solid	DI Leach	
890-2313-2	PH01A	Soluble	Solid	DI Leach	
890-2313-3	PH01B	Soluble	Solid	DI Leach	
890-2313-4	PH01C	Soluble	Solid	DI Leach	
890-2313-5	PH02	Soluble	Solid	DI Leach	
890-2313-6	PH02A	Soluble	Solid	DI Leach	
890-2313-7	PH02B	Soluble	Solid	DI Leach	
890-2313-8	PH02C	Soluble	Solid	DI Leach	
890-2313-9	BH01	Soluble	Solid	DI Leach	
890-2313-10	BH01A	Soluble	Solid	DI Leach	
890-2313-11	BH01B	Soluble	Solid	DI Leach	
890-2313-12	BH01C	Soluble	Solid	DI Leach	
890-2313-13	BH02	Soluble	Solid	DI Leach	
890-2313-14	BH02A	Soluble	Solid	DI Leach	
890-2313-15	BH02B	Soluble	Solid	DI Leach	
890-2313-16	BH02C	Soluble	Solid	DI Leach	
890-2313-17	BH03	Soluble	Solid	DI Leach	
890-2313-18	BH03A	Soluble	Solid	DI Leach	
890-2313-19	BH03B	Soluble	Solid	DI Leach	
890-2313-20	BH03C	Soluble	Solid	DI Leach	
MB 880-25614/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-25614/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-25614/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2313-1 MS	PH01	Soluble	Solid	DI Leach	
890-2313-1 MSD	PH01	Soluble	Solid	DI Leach	
890-2313-11 MS	BH01B	Soluble	Solid	DI Leach	
890-2313-11 MSD	BH01B	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

HPLC/IC

Analysis Batch: 25824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2313-1	PH01	Soluble	Solid	300.0	25614
890-2313-2	PH01A	Soluble	Solid	300.0	25614
890-2313-3	PH01B	Soluble	Solid	300.0	25614
890-2313-4	PH01C	Soluble	Solid	300.0	25614
890-2313-5	PH02	Soluble	Solid	300.0	25614
890-2313-6	PH02A	Soluble	Solid	300.0	25614
890-2313-7	PH02B	Soluble	Solid	300.0	25614
890-2313-8	PH02C	Soluble	Solid	300.0	25614
890-2313-9	BH01	Soluble	Solid	300.0	25614
890-2313-10	BH01A	Soluble	Solid	300.0	25614
890-2313-11	BH01B	Soluble	Solid	300.0	25614
890-2313-12	BH01C	Soluble	Solid	300.0	25614
890-2313-13	BH02	Soluble	Solid	300.0	25614
890-2313-14	BH02A	Soluble	Solid	300.0	25614
890-2313-15	BH02B	Soluble	Solid	300.0	25614
890-2313-16	BH02C	Soluble	Solid	300.0	25614
890-2313-17	BH03	Soluble	Solid	300.0	25614
890-2313-18	BH03A	Soluble	Solid	300.0	25614
890-2313-19	BH03B	Soluble	Solid	300.0	25614
890-2313-20	BH03C	Soluble	Solid	300.0	25614
MB 880-25614/1-A	Method Blank	Soluble	Solid	300.0	25614
LCS 880-25614/2-A	Lab Control Sample	Soluble	Solid	300.0	25614
LCSD 880-25614/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	25614
890-2313-1 MS	PH01	Soluble	Solid	300.0	25614
890-2313-1 MSD	PH01	Soluble	Solid	300.0	25614
890-2313-11 MS	BH01B	Soluble	Solid	300.0	25614
890-2313-11 MSD	BH01B	Soluble	Solid	300.0	25614

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Client Sample ID: PH01

Lab Sample ID: 890-2313-1

Date Collected: 05/12/22 10:00

Matrix: Solid

Date Received: 05/13/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	25650	05/16/22 15:47	MR	XEN MID
Total/NA	Analysis	8021B		1			25671	05/18/22 05:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25801	05/18/22 09:14	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25785	05/18/22 08:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25676	05/17/22 09:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25684	05/17/22 23:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	25614	05/16/22 10:53	CH	XEN MID
Soluble	Analysis	300.0		5			25824	05/18/22 20:15	CH	XEN MID

Client Sample ID: PH01A

Lab Sample ID: 890-2313-2

Date Collected: 05/12/22 10:10

Matrix: Solid

Date Received: 05/13/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	25650	05/16/22 15:47	MR	XEN MID
Total/NA	Analysis	8021B		1			25671	05/18/22 05:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25801	05/18/22 09:14	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25785	05/18/22 08:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25675	05/17/22 09:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25770	05/18/22 16:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	25614	05/16/22 10:53	CH	XEN MID
Soluble	Analysis	300.0		10			25824	05/18/22 20:43	CH	XEN MID

Client Sample ID: PH01B

Lab Sample ID: 890-2313-3

Date Collected: 05/12/22 10:20

Matrix: Solid

Date Received: 05/13/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	25810	05/18/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1			25796	05/18/22 12:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25801	05/18/22 09:14	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25785	05/18/22 08:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	25675	05/17/22 09:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25770	05/18/22 16:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	25614	05/16/22 10:53	CH	XEN MID
Soluble	Analysis	300.0		20			25824	05/18/22 20:52	CH	XEN MID

Client Sample ID: PH01C

Lab Sample ID: 890-2313-4

Date Collected: 05/12/22 10:30

Matrix: Solid

Date Received: 05/13/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	25810	05/18/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1			25796	05/18/22 13:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25801	05/18/22 09:14	AJ	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Client Sample ID: PH01C

Lab Sample ID: 890-2313-4

Date Collected: 05/12/22 10:30

Matrix: Solid

Date Received: 05/13/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			25785	05/18/22 08:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25675	05/17/22 09:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25770	05/18/22 17:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	25614	05/16/22 10:53	CH	XEN MID
Soluble	Analysis	300.0		20			25824	05/18/22 21:01	CH	XEN MID

Client Sample ID: PH02

Lab Sample ID: 890-2313-5

Date Collected: 05/12/22 10:50

Matrix: Solid

Date Received: 05/13/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	25810	05/18/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1			25796	05/18/22 13:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25801	05/18/22 09:14	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25785	05/18/22 08:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25675	05/17/22 09:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25770	05/18/22 17:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	25614	05/16/22 10:53	CH	XEN MID
Soluble	Analysis	300.0		5			25824	05/18/22 21:10	CH	XEN MID

Client Sample ID: PH02A

Lab Sample ID: 890-2313-6

Date Collected: 05/12/22 11:00

Matrix: Solid

Date Received: 05/13/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	25810	05/18/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1			25796	05/18/22 13:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25801	05/18/22 09:14	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25785	05/18/22 08:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	25675	05/17/22 09:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25770	05/18/22 18:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	25614	05/16/22 10:53	CH	XEN MID
Soluble	Analysis	300.0		10			25824	05/18/22 21:38	CH	XEN MID

Client Sample ID: PH02B

Lab Sample ID: 890-2313-7

Date Collected: 05/12/22 11:10

Matrix: Solid

Date Received: 05/13/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	25810	05/18/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1			25796	05/18/22 14:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25801	05/18/22 09:14	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25785	05/18/22 08:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	25675	05/17/22 09:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25770	05/18/22 18:37	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Client Sample ID: PH02B

Lab Sample ID: 890-2313-7

Date Collected: 05/12/22 11:10

Matrix: Solid

Date Received: 05/13/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	25614	05/16/22 10:53	CH	XEN MID
Soluble	Analysis	300.0		10			25824	05/18/22 21:47	CH	XEN MID

Client Sample ID: PH02C

Lab Sample ID: 890-2313-8

Date Collected: 05/12/22 11:30

Matrix: Solid

Date Received: 05/13/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	25653	05/16/22 15:56	MR	XEN MID
Total/NA	Analysis	8021B		1			25750	05/17/22 21:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25801	05/18/22 09:14	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25785	05/18/22 08:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25675	05/17/22 09:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25770	05/18/22 18:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	25614	05/16/22 10:53	CH	XEN MID
Soluble	Analysis	300.0		5			25824	05/18/22 21:56	CH	XEN MID

Client Sample ID: BH01

Lab Sample ID: 890-2313-9

Date Collected: 05/12/22 11:40

Matrix: Solid

Date Received: 05/13/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	25810	05/18/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1			25796	05/18/22 14:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25801	05/18/22 09:14	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25785	05/18/22 08:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25675	05/17/22 09:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25770	05/18/22 19:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	25614	05/16/22 10:53	CH	XEN MID
Soluble	Analysis	300.0		10			25824	05/18/22 22:06	CH	XEN MID

Client Sample ID: BH01A

Lab Sample ID: 890-2313-10

Date Collected: 05/12/22 12:00

Matrix: Solid

Date Received: 05/13/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	25810	05/18/22 10:00	MR	XEN MID
Total/NA	Analysis	8021B		1			25796	05/18/22 14:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25801	05/18/22 09:14	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25785	05/18/22 08:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	25675	05/17/22 09:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25770	05/18/22 19:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	25614	05/16/22 10:53	CH	XEN MID
Soluble	Analysis	300.0		5			25824	05/18/22 22:15	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Client Sample ID: BH01B

Lab Sample ID: 890-2313-11

Date Collected: 05/12/22 12:10

Matrix: Solid

Date Received: 05/13/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	55 mL	25653	05/16/22 15:56	MR	XEN MID
Total/NA	Analysis	8021B		1			25750	05/18/22 00:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25801	05/18/22 09:14	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25785	05/18/22 08:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25675	05/17/22 09:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25770	05/18/22 20:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	25614	05/16/22 10:53	CH	XEN MID
Soluble	Analysis	300.0		5			25824	05/18/22 22:24	CH	XEN MID

Client Sample ID: BH01C

Lab Sample ID: 890-2313-12

Date Collected: 05/12/22 12:20

Matrix: Solid

Date Received: 05/13/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	25653	05/16/22 15:56	MR	XEN MID
Total/NA	Analysis	8021B		1			25750	05/18/22 00:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25801	05/18/22 09:14	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25785	05/18/22 08:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25675	05/17/22 09:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25770	05/18/22 20:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	25614	05/16/22 10:53	CH	XEN MID
Soluble	Analysis	300.0		1			25824	05/18/22 22:52	CH	XEN MID

Client Sample ID: BH02

Lab Sample ID: 890-2313-13

Date Collected: 05/12/22 12:30

Matrix: Solid

Date Received: 05/13/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	25653	05/16/22 15:56	MR	XEN MID
Total/NA	Analysis	8021B		1			25750	05/18/22 01:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25801	05/18/22 09:14	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25785	05/18/22 08:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25675	05/17/22 09:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25770	05/18/22 20:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	25614	05/16/22 10:53	CH	XEN MID
Soluble	Analysis	300.0		1			25824	05/18/22 23:01	CH	XEN MID

Client Sample ID: BH02A

Lab Sample ID: 890-2313-14

Date Collected: 05/12/22 12:45

Matrix: Solid

Date Received: 05/13/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	25653	05/16/22 15:56	MR	XEN MID
Total/NA	Analysis	8021B		1			25750	05/18/22 01:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25801	05/18/22 09:14	AJ	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Client Sample ID: BH02A

Lab Sample ID: 890-2313-14

Date Collected: 05/12/22 12:45

Matrix: Solid

Date Received: 05/13/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			25785	05/18/22 08:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	25793	05/18/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25772	05/18/22 15:10	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	25614	05/16/22 10:53	CH	XEN MID
Soluble	Analysis	300.0		1			25824	05/18/22 23:28	CH	XEN MID

Client Sample ID: BH02B

Lab Sample ID: 890-2313-15

Date Collected: 05/12/22 13:00

Matrix: Solid

Date Received: 05/13/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	25653	05/16/22 15:56	MR	XEN MID
Total/NA	Analysis	8021B		1			25750	05/18/22 02:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25801	05/18/22 09:14	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25785	05/18/22 08:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25793	05/18/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25772	05/18/22 15:34	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	25614	05/16/22 10:53	CH	XEN MID
Soluble	Analysis	300.0		1			25824	05/18/22 23:38	CH	XEN MID

Client Sample ID: BH02C

Lab Sample ID: 890-2313-16

Date Collected: 05/12/22 13:20

Matrix: Solid

Date Received: 05/13/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	25653	05/16/22 15:56	MR	XEN MID
Total/NA	Analysis	8021B		1			25750	05/18/22 02:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25801	05/18/22 09:14	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25785	05/18/22 08:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25793	05/18/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25772	05/18/22 15:57	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	25614	05/16/22 10:53	CH	XEN MID
Soluble	Analysis	300.0		1			25824	05/18/22 23:47	CH	XEN MID

Client Sample ID: BH03

Lab Sample ID: 890-2313-17

Date Collected: 05/12/22 13:40

Matrix: Solid

Date Received: 05/13/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	25653	05/16/22 15:56	MR	XEN MID
Total/NA	Analysis	8021B		1			25750	05/18/22 03:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25801	05/18/22 09:14	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25785	05/18/22 08:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25793	05/18/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25772	05/18/22 16:20	SM	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Client Sample ID: BH03

Lab Sample ID: 890-2313-17

Date Collected: 05/12/22 13:40

Matrix: Solid

Date Received: 05/13/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	25614	05/16/22 10:53	CH	XEN MID
Soluble	Analysis	300.0		5			25824	05/18/22 23:56	CH	XEN MID

Client Sample ID: BH03A

Lab Sample ID: 890-2313-18

Date Collected: 05/12/22 14:00

Matrix: Solid

Date Received: 05/13/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	25653	05/16/22 15:56	MR	XEN MID
Total/NA	Analysis	8021B		1			25750	05/18/22 03:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25801	05/18/22 09:14	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25785	05/18/22 08:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25793	05/18/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25772	05/18/22 16:42	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	25614	05/16/22 10:53	CH	XEN MID
Soluble	Analysis	300.0		1			25824	05/19/22 00:05	CH	XEN MID

Client Sample ID: BH03B

Lab Sample ID: 890-2313-19

Date Collected: 05/12/22 14:20

Matrix: Solid

Date Received: 05/13/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	25653	05/16/22 15:56	MR	XEN MID
Total/NA	Analysis	8021B		1			25750	05/18/22 03:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25801	05/18/22 09:14	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25785	05/18/22 08:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	25793	05/18/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25772	05/18/22 17:28	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	25614	05/16/22 10:53	CH	XEN MID
Soluble	Analysis	300.0		1			25824	05/19/22 00:14	CH	XEN MID

Client Sample ID: BH03C

Lab Sample ID: 890-2313-20

Date Collected: 05/12/22 14:30

Matrix: Solid

Date Received: 05/13/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	25653	05/16/22 15:56	MR	XEN MID
Total/NA	Analysis	8021B		1			25750	05/18/22 04:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25801	05/18/22 09:14	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25785	05/18/22 08:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25793	05/18/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25772	05/18/22 17:49	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	25614	05/16/22 10:53	CH	XEN MID
Soluble	Analysis	300.0		1			25824	05/19/22 00:24	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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

Method Summary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2313-1
SDG: 03E1558008

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2313-1	PH01	Solid	05/12/22 10:00	05/13/22 16:08	1
890-2313-2	PH01A	Solid	05/12/22 10:10	05/13/22 16:08	2
890-2313-3	PH01B	Solid	05/12/22 10:20	05/13/22 16:08	3
890-2313-4	PH01C	Solid	05/12/22 10:30	05/13/22 16:08	4
890-2313-5	PH02	Solid	05/12/22 10:50	05/13/22 16:08	1
890-2313-6	PH02A	Solid	05/12/22 11:00	05/13/22 16:08	2
890-2313-7	PH02B	Solid	05/12/22 11:10	05/13/22 16:08	3
890-2313-8	PH02C	Solid	05/12/22 11:30	05/13/22 16:08	4
890-2313-9	BH01	Solid	05/12/22 11:40	05/13/22 16:08	1
890-2313-10	BH01A	Solid	05/12/22 12:00	05/13/22 16:08	2
890-2313-11	BH01B	Solid	05/12/22 12:10	05/13/22 16:08	3
890-2313-12	BH01C	Solid	05/12/22 12:20	05/13/22 16:08	4
890-2313-13	BH02	Solid	05/12/22 12:30	05/13/22 16:08	1
890-2313-14	BH02A	Solid	05/12/22 12:45	05/13/22 16:08	2
890-2313-15	BH02B	Solid	05/12/22 13:00	05/13/22 16:08	3
890-2313-16	BH02C	Solid	05/12/22 13:20	05/13/22 16:08	4
890-2313-17	BH03	Solid	05/12/22 13:40	05/13/22 16:08	1
890-2313-18	BH03A	Solid	05/12/22 14:00	05/13/22 16:08	2
890-2313-19	BH03B	Solid	05/12/22 14:20	05/13/22 16:08	3
890-2313-20	BH03C	Solid	05/12/22 14:30	05/13/22 16:08	4

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199



Environment Testing
Xenco

Work Order No: _____

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Page 1 of 2

Project Manager: <u>Ben Bell</u>		Bill to: (if different)	
Company Name: <u>Ensochem</u>		Company Name: <u>XTO Energy</u>	
Address: <u>3122 National Parks Hwy</u>		Address: <u>3104 E. Green Street</u>	
City, State ZIP: <u>Carlsbad, NM 88220</u>		City, State ZIP: <u>Carlsbad, NM 88220</u>	
Phone: <u>(505) 854-0852</u>		Email: <u>ben@xenco.com</u>	

Project Name: <u>PLU223</u>		Turn Around	
Project Number: <u>03E1558008</u>		☒ Routine ☐ Rush	
Project Location: <u>Eddy County, NM</u>		Due Date: _____	
Sampler's Name: <u>Ben Bell</u>		TAT starts the day received by the lab, if received by 4:30pm	
PO #: _____		Wet Ice: <u>Yes</u> ☒ No ☐	

SAMPLE RECEIPT		Parameters	
Samples Received Intact: <u>Yes</u> ☒ No ☐	Thermometer ID: <u>TM-004</u>	Pres. Code	
Cooler Custody Seals: <u>Yes</u> ☒ No ☐	Correction Factor: <u>0.0</u>	Cool: Cool	
Sample Custody Seals: <u>Yes</u> ☒ No ☐	Temperature Reading: <u>4.0</u>	HCL: HC	
Total Containers: _____	Corrected Temperature: <u>4.0</u>	H ₂ SO ₄ : H ₂	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Sample Comments
PH01	S	5/12/22	1000	1	G	1	CC: 113 796 1001
PH01A			1010	2			Juc #35 NAPP 220174 5910
PH01B			1020	3			NAPP 2204945328
PH01C			1030	4			NAPP 2205343597
PH02			1050				
PH02A			1100	2			
PH02B			1110	3			
PH02C			1130	4			
BH01			1140	1			
BH01A			1200	2			

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be Cd Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Date/Time
<u>Ben Bell</u>	<u>Ben Bell</u>	<u>Ben Bell</u>	<u>Ben Bell</u>	5/13/22 10:00	5/13/22 10:00

Revised Date: 08/25/2020 Rev. 2020.2

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199



Environment Testing

Xenco

Work Order No:

www.xenco.com Page 2 of 2

Project Manager: Ben Belil
Company Name: Ensolum
Address: 3122 Natural Parks Hwy
City, State ZIP: Carlsbad, NM 88220
Phone: 989854-0852

Bill to: (if different)
Company Name: XTO Energy
Address: 3104 E. Green Street
City, State ZIP: Carlsbad, NM, 88220
Email: bbelil@ensolum.com

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Reporting: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: ☐ EDD ☐ ADAPT ☐ Other:

ANALYSIS REQUEST										Preservative Codes	
Project Name:	Project Number:	Project Location:	Sampler's Name:	P.O. #:	Turn Around	Due Date:	TAT starts the day received by the lab, if received by 4:30pm	Parameters	Pres. Code	None: NO	DI Water: H ₂ O
SAMPLE RECEIPT					Temp Blank:	Yes	No	Wet Ice:	Yes	No	Cool: Cool
Samples Received Intact:					Yes	No	Thermometer:	Yes	No	Correction Factor:	HCL: HC
Cooler Custody Seals:					Yes	No	N/A	Temperature Reading:	Corrected Temperature:	H ₂ SO ₄ : H ₂	MeOH: Me
Sample Custody Seals:					Yes	No	N/A	Temperature Reading:	Corrected Temperature:	H ₃ PO ₄ : HP	HNO ₃ : HN
Total Containers:					Yes	No	N/A	Temperature Reading:	Corrected Temperature:	NaHSO ₄ : NABIS	NaOH: Na
Sample Identification					Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Sample Comments
BH01B	5	5/12/21	12:10	3	G	1					CL: 1137961001
BH01C	1	5/12/21	12:10	4	1	1					JAN #3:
BH02	1	5/12/21	12:20	1	1	1					NAPP 220174591D,
BH02A	1	5/12/21	12:45	2	1	1					NAPP 2204445328,
BH02B	1	5/12/21	13:00	3	1	1					NAPP 2205343597
BH02C	1	5/12/21	13:20	4	1	1					
BH03	1	5/12/21	13:40	1	1	1					
BH03A	1	5/12/21	14:00	2	1	1					
BH03B	1	5/12/21	14:20	3	1	1					
BH03C	1	5/12/21	14:30	4	1	1					

Total 2007/6010 200.8/6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
B. Belil	Chloe G	5.13.22			

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2313-1

SDG Number: 03E1558008

Login Number: 2313

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2313-1

SDG Number: 03E1558008

Login Number: 2313

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 05/17/22 10:54 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1981-1

Laboratory Sample Delivery Group: 31403236.029

Client Project/Site: PLU 223

For:

WSP USA Inc.
2777 N. Stemmons Freeway
Suite 1600
Dallas, Texas 75207

Attn: Benjamin Belill

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
3/1/2022 6:57:45 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: WSP USA Inc.
Project/Site: PLU 223

Laboratory Job ID: 890-1981-1
SDG: 31403236.029

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1981-1
SDG: 31403236.029

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1981-1
SDG: 31403236.029

Job ID: 890-1981-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-1981-1****Receipt**

The samples were received on 2/21/2022 10:14 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-20198 and analytical batch 880-20288 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS11 (890-1981-6). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-20088 and analytical batch 880-20116 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS06 (890-1981-1), SS07 (890-1981-2), SS08 (890-1981-3) and (890-1988-A-8-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1981-1
SDG: 31403236.029

Client Sample ID: SS06

Lab Sample ID: 890-1981-1

Date Collected: 02/18/22 12:00

Matrix: Solid

Date Received: 02/21/22 10:14

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/24/22 10:28	02/26/22 20:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/24/22 10:28	02/26/22 20:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/24/22 10:28	02/26/22 20:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/24/22 10:28	02/26/22 20:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/24/22 10:28	02/26/22 20:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/24/22 10:28	02/26/22 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	02/24/22 10:28	02/26/22 20:02	1
1,4-Difluorobenzene (Surr)	92		70 - 130	02/24/22 10:28	02/26/22 20:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/28/22 10:45	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/24/22 15:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/22/22 16:53	02/24/22 01:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/22/22 16:53	02/24/22 01:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/22/22 16:53	02/24/22 01:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130	02/22/22 16:53	02/24/22 01:36	1
o-Terphenyl	66	S1-	70 - 130	02/22/22 16:53	02/24/22 01:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.8		5.00	mg/Kg			02/25/22 10:29	1

Client Sample ID: SS07

Lab Sample ID: 890-1981-2

Date Collected: 02/18/22 12:10

Matrix: Solid

Date Received: 02/21/22 10:14

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:28	02/26/22 20:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:28	02/26/22 20:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:28	02/26/22 20:23	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/24/22 10:28	02/26/22 20:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:28	02/26/22 20:23	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/24/22 10:28	02/26/22 20:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	02/24/22 10:28	02/26/22 20:23	1

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1981-1
SDG: 31403236.029

Client Sample ID: SS07

Lab Sample ID: 890-1981-2

Date Collected: 02/18/22 12:10

Matrix: Solid

Date Received: 02/21/22 10:14

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94		70 - 130	02/24/22 10:28	02/26/22 20:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/28/22 10:45	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/24/22 15:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/22/22 16:53	02/24/22 01:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/22/22 16:53	02/24/22 01:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/22/22 16:53	02/24/22 01:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130			02/22/22 16:53	02/24/22 01:57	1
o-Terphenyl	66	S1-	70 - 130			02/22/22 16:53	02/24/22 01:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.64		5.04	mg/Kg			02/25/22 10:36	1

Client Sample ID: SS08

Lab Sample ID: 890-1981-3

Date Collected: 02/18/22 12:15

Matrix: Solid

Date Received: 02/21/22 10:14

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/24/22 10:28	02/26/22 20:44	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/24/22 10:28	02/26/22 20:44	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/24/22 10:28	02/26/22 20:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/24/22 10:28	02/26/22 20:44	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/24/22 10:28	02/26/22 20:44	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/24/22 10:28	02/26/22 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	02/24/22 10:28	02/26/22 20:44	1
1,4-Difluorobenzene (Surr)	95		70 - 130	02/24/22 10:28	02/26/22 20:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/28/22 10:45	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/24/22 15:23	1

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1981-1
SDG: 31403236.029

Client Sample ID: SS08

Lab Sample ID: 890-1981-3

Date Collected: 02/18/22 12:15

Matrix: Solid

Date Received: 02/21/22 10:14

Sample Depth: 0.5

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/22/22 16:53	02/24/22 02:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/22/22 16:53	02/24/22 02:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/22/22 16:53	02/24/22 02:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130			02/22/22 16:53	02/24/22 02:17	1
o-Terphenyl	66	S1-	70 - 130			02/22/22 16:53	02/24/22 02:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.10		4.98	mg/Kg			02/25/22 10:42	1

Client Sample ID: SS09

Lab Sample ID: 890-1981-4

Date Collected: 02/18/22 12:20

Matrix: Solid

Date Received: 02/21/22 10:14

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/24/22 10:28	02/26/22 21:04	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/24/22 10:28	02/26/22 21:04	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/24/22 10:28	02/26/22 21:04	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		02/24/22 10:28	02/26/22 21:04	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/24/22 10:28	02/26/22 21:04	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		02/24/22 10:28	02/26/22 21:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			02/24/22 10:28	02/26/22 21:04	1
1,4-Difluorobenzene (Surr)	100		70 - 130			02/24/22 10:28	02/26/22 21:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			02/28/22 10:45	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/24/22 15:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/22/22 16:53	02/24/22 02:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/22/22 16:53	02/24/22 02:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/22/22 16:53	02/24/22 02:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130			02/22/22 16:53	02/24/22 02:37	1
o-Terphenyl	73		70 - 130			02/22/22 16:53	02/24/22 02:37	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1981-1
SDG: 31403236.029

Client Sample ID: SS09

Lab Sample ID: 890-1981-4

Date Collected: 02/18/22 12:20
Date Received: 02/21/22 10:14
Sample Depth: 0.5

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.0		5.05	mg/Kg			02/25/22 22:39	1

Client Sample ID: SS10

Lab Sample ID: 890-1981-5

Date Collected: 02/18/22 12:30
Date Received: 02/21/22 10:14
Sample Depth: 0.5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/24/22 10:28	02/26/22 22:55	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/24/22 10:28	02/26/22 22:55	1
Ethylbenzene	0.00271		0.00201	mg/Kg		02/24/22 10:28	02/26/22 22:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/24/22 10:28	02/26/22 22:55	1
o-Xylene	0.00398		0.00201	mg/Kg		02/24/22 10:28	02/26/22 22:55	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/24/22 10:28	02/26/22 22:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			02/24/22 10:28	02/26/22 22:55	1
1,4-Difluorobenzene (Surr)	104		70 - 130			02/24/22 10:28	02/26/22 22:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00669		0.00402	mg/Kg			02/28/22 10:45	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/24/22 15:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/22/22 16:53	02/24/22 02:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/22/22 16:53	02/24/22 02:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/22/22 16:53	02/24/22 02:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130			02/22/22 16:53	02/24/22 02:58	1
o-Terphenyl	83		70 - 130			02/22/22 16:53	02/24/22 02:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.66		4.99	mg/Kg			02/25/22 22:45	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1981-1
SDG: 31403236.029

Client Sample ID: SS11

Lab Sample ID: 890-1981-6

Date Collected: 02/18/22 12:35

Matrix: Solid

Date Received: 02/21/22 10:14

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/24/22 10:28	02/26/22 23:16	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/24/22 10:28	02/26/22 23:16	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/24/22 10:28	02/26/22 23:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/24/22 10:28	02/26/22 23:16	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/24/22 10:28	02/26/22 23:16	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/24/22 10:28	02/26/22 23:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	35	S1-	70 - 130	02/24/22 10:28	02/26/22 23:16	1
1,4-Difluorobenzene (Surr)	92		70 - 130	02/24/22 10:28	02/26/22 23:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/28/22 10:45	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/24/22 15:23	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/22/22 16:53	02/24/22 03:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/22/22 16:53	02/24/22 03:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/22/22 16:53	02/24/22 03:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	02/22/22 16:53	02/24/22 03:39	1
o-Terphenyl	88		70 - 130	02/22/22 16:53	02/24/22 03:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.72		4.97	mg/Kg			02/25/22 22:52	1

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1981-1
SDG: 31403236.029

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-11501-A-1-C MS	Matrix Spike	104	98
880-11501-A-1-D MSD	Matrix Spike Duplicate	108	100
890-1981-1	SS06	110	92
890-1981-2	SS07	101	94
890-1981-3	SS08	102	95
890-1981-4	SS09	101	100
890-1981-5	SS10	84	104
890-1981-6	SS11	35 S1-	92
LCS 880-20198/1-A	Lab Control Sample	104	103
LCSD 880-20198/2-A	Lab Control Sample Dup	102	102
MB 880-20197/5-A	Method Blank	95	98
MB 880-20198/5-A	Method Blank	97	96
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1981-1	SS06	71	66 S1-
890-1981-2	SS07	69 S1-	66 S1-
890-1981-3	SS08	71	66 S1-
890-1981-4	SS09	72	73
890-1981-5	SS10	73	83
890-1981-6	SS11	85	88
890-1988-A-8-B MS	Matrix Spike	74	62 S1-
890-1988-A-8-C MSD	Matrix Spike Duplicate	80	63 S1-
LCS 880-20088/2-A	Lab Control Sample	100	99
LCSD 880-20088/3-A	Lab Control Sample Dup	109	104
MB 880-20088/1-A	Method Blank	80	89
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1981-1
SDG: 31403236.029

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-20197/5-A

Matrix: Solid

Analysis Batch: 20288

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20197

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:24	02/25/22 23:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:24	02/25/22 23:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:24	02/25/22 23:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/24/22 10:24	02/25/22 23:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:24	02/25/22 23:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/24/22 10:24	02/25/22 23:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	02/24/22 10:24	02/25/22 23:18	1
1,4-Difluorobenzene (Surr)	98		70 - 130	02/24/22 10:24	02/25/22 23:18	1

Lab Sample ID: MB 880-20198/5-A

Matrix: Solid

Analysis Batch: 20288

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20198

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:28	02/26/22 17:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:28	02/26/22 17:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:28	02/26/22 17:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/24/22 10:28	02/26/22 17:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/24/22 10:28	02/26/22 17:30	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/24/22 10:28	02/26/22 17:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	02/24/22 10:28	02/26/22 17:30	1
1,4-Difluorobenzene (Surr)	96		70 - 130	02/24/22 10:28	02/26/22 17:30	1

Lab Sample ID: LCS 880-20198/1-A

Matrix: Solid

Analysis Batch: 20288

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20198

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09909		mg/Kg		99	70 - 130
Toluene	0.100	0.09438		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09155		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.2087		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1037		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-20198/2-A

Matrix: Solid

Analysis Batch: 20288

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20198

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08953		mg/Kg		90	70 - 130	10	35

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1981-1
SDG: 31403236.029

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-20198/2-A

Matrix: Solid

Analysis Batch: 20288

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20198

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.08354		mg/Kg		84	70 - 130	12	35
Ethylbenzene	0.100	0.08194		mg/Kg		82	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1894		mg/Kg		95	70 - 130	10	35
o-Xylene	0.100	0.09718		mg/Kg		97	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-11501-A-1-C MS

Matrix: Solid

Analysis Batch: 20288

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20198

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U F1 F2	0.101	0.07725		mg/Kg		77	70 - 130
Toluene	<0.00202	U F1 F2	0.101	0.07728		mg/Kg		76	70 - 130
Ethylbenzene	<0.00202	U F1 F2	0.101	0.07397		mg/Kg		73	70 - 130
m-Xylene & p-Xylene	<0.00404	U F1 F2	0.201	0.1703		mg/Kg		84	70 - 130
o-Xylene	<0.00202	U F1	0.101	0.08428		mg/Kg		83	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-11501-A-1-D MSD

Matrix: Solid

Analysis Batch: 20288

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20198

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F1 F2	0.0996	0.05140	F1 F2	mg/Kg		52	70 - 130	40	35
Toluene	<0.00202	U F1 F2	0.0996	0.04948	F1 F2	mg/Kg		49	70 - 130	44	35
Ethylbenzene	<0.00202	U F1 F2	0.0996	0.04974	F1 F2	mg/Kg		49	70 - 130	39	35
m-Xylene & p-Xylene	<0.00404	U F1 F2	0.199	0.1148	F1 F2	mg/Kg		57	70 - 130	39	35
o-Xylene	<0.00202	U F1	0.0996	0.05988	F1	mg/Kg		60	70 - 130	34	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-20088/1-A

Matrix: Solid

Analysis Batch: 20116

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20088

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/22/22 16:53	02/23/22 22:07	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1981-1
SDG: 31403236.029

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-20088/1-A

Matrix: Solid

Analysis Batch: 20116

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20088

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/22/22 16:53	02/23/22 22:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/22/22 16:53	02/23/22 22:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130			02/22/22 16:53	02/23/22 22:07	1
o-Terphenyl	89		70 - 130			02/22/22 16:53	02/23/22 22:07	1

Lab Sample ID: LCS 880-20088/2-A

Matrix: Solid

Analysis Batch: 20116

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	823.1		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	951.1		mg/Kg		95	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	100		70 - 130				
o-Terphenyl	99		70 - 130				

Lab Sample ID: LCSD 880-20088/3-A

Matrix: Solid

Analysis Batch: 20116

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20088

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	936.3		mg/Kg		94	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	1000	1052		mg/Kg		105	70 - 130	10	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	109		70 - 130						
o-Terphenyl	104		70 - 130						

Lab Sample ID: 890-1988-A-8-B MS

Matrix: Solid

Analysis Batch: 20116

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20088

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	1000	1299		mg/Kg		130	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	1000	1364	F1	mg/Kg		133	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	74		70 - 130						
o-Terphenyl	62	S1-	70 - 130						

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1981-1
SDG: 31403236.029

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1988-A-8-C MSD

Matrix: Solid

Analysis Batch: 20116

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20088

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	998	1452	F1	mg/Kg		145	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	1420	F1	mg/Kg		139	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	80		70 - 130								
o-Terphenyl	63	S1-	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-20130/1-A

Matrix: Solid

Analysis Batch: 20165

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/25/22 09:44	1

Lab Sample ID: LCS 880-20130/2-A

Matrix: Solid

Analysis Batch: 20165

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	249.1		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-20130/3-A

Matrix: Solid

Analysis Batch: 20165

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	255.6		mg/Kg		102	90 - 110	3	20

Lab Sample ID: 880-11518-A-11-F MS

Matrix: Solid

Analysis Batch: 20165

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	538		248	780.5		mg/Kg		98	90 - 110

Lab Sample ID: 880-11518-A-11-G MSD

Matrix: Solid

Analysis Batch: 20165

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	538		248	780.3		mg/Kg		98	90 - 110	0	20

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1981-1
SDG: 31403236.029

GC VOA

Prep Batch: 20197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-20197/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 20198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1981-1	SS06	Total/NA	Solid	5035	
890-1981-2	SS07	Total/NA	Solid	5035	
890-1981-3	SS08	Total/NA	Solid	5035	
890-1981-4	SS09	Total/NA	Solid	5035	
890-1981-5	SS10	Total/NA	Solid	5035	
890-1981-6	SS11	Total/NA	Solid	5035	
MB 880-20198/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20198/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20198/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11501-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-11501-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 20288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1981-1	SS06	Total/NA	Solid	8021B	20198
890-1981-2	SS07	Total/NA	Solid	8021B	20198
890-1981-3	SS08	Total/NA	Solid	8021B	20198
890-1981-4	SS09	Total/NA	Solid	8021B	20198
890-1981-5	SS10	Total/NA	Solid	8021B	20198
890-1981-6	SS11	Total/NA	Solid	8021B	20198
MB 880-20197/5-A	Method Blank	Total/NA	Solid	8021B	20197
MB 880-20198/5-A	Method Blank	Total/NA	Solid	8021B	20198
LCS 880-20198/1-A	Lab Control Sample	Total/NA	Solid	8021B	20198
LCSD 880-20198/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20198
880-11501-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	20198
880-11501-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	20198

Analysis Batch: 20468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1981-1	SS06	Total/NA	Solid	Total BTEX	
890-1981-2	SS07	Total/NA	Solid	Total BTEX	
890-1981-3	SS08	Total/NA	Solid	Total BTEX	
890-1981-4	SS09	Total/NA	Solid	Total BTEX	
890-1981-5	SS10	Total/NA	Solid	Total BTEX	
890-1981-6	SS11	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 20088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1981-1	SS06	Total/NA	Solid	8015NM Prep	
890-1981-2	SS07	Total/NA	Solid	8015NM Prep	
890-1981-3	SS08	Total/NA	Solid	8015NM Prep	
890-1981-4	SS09	Total/NA	Solid	8015NM Prep	
890-1981-5	SS10	Total/NA	Solid	8015NM Prep	
890-1981-6	SS11	Total/NA	Solid	8015NM Prep	
MB 880-20088/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1981-1
SDG: 31403236.029

GC Semi VOA (Continued)

Prep Batch: 20088 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-20088/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-20088/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1988-A-8-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1988-A-8-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 20116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1981-1	SS06	Total/NA	Solid	8015B NM	20088
890-1981-2	SS07	Total/NA	Solid	8015B NM	20088
890-1981-3	SS08	Total/NA	Solid	8015B NM	20088
890-1981-4	SS09	Total/NA	Solid	8015B NM	20088
890-1981-5	SS10	Total/NA	Solid	8015B NM	20088
890-1981-6	SS11	Total/NA	Solid	8015B NM	20088
MB 880-20088/1-A	Method Blank	Total/NA	Solid	8015B NM	20088
LCS 880-20088/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	20088
LCSD 880-20088/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	20088
890-1988-A-8-B MS	Matrix Spike	Total/NA	Solid	8015B NM	20088
890-1988-A-8-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	20088

Analysis Batch: 20247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1981-1	SS06	Total/NA	Solid	8015 NM	
890-1981-2	SS07	Total/NA	Solid	8015 NM	
890-1981-3	SS08	Total/NA	Solid	8015 NM	
890-1981-4	SS09	Total/NA	Solid	8015 NM	
890-1981-5	SS10	Total/NA	Solid	8015 NM	
890-1981-6	SS11	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 20130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1981-1	SS06	Soluble	Solid	DI Leach	
890-1981-2	SS07	Soluble	Solid	DI Leach	
890-1981-3	SS08	Soluble	Solid	DI Leach	
890-1981-4	SS09	Soluble	Solid	DI Leach	
890-1981-5	SS10	Soluble	Solid	DI Leach	
890-1981-6	SS11	Soluble	Solid	DI Leach	
MB 880-20130/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-20130/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-20130/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-11518-A-11-F MS	Matrix Spike	Soluble	Solid	DI Leach	
880-11518-A-11-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 20165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1981-1	SS06	Soluble	Solid	300.0	20130
890-1981-2	SS07	Soluble	Solid	300.0	20130
890-1981-3	SS08	Soluble	Solid	300.0	20130
890-1981-4	SS09	Soluble	Solid	300.0	20130
890-1981-5	SS10	Soluble	Solid	300.0	20130

Eurofins Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1981-1
SDG: 31403236.029

HPLC/IC (Continued)

Analysis Batch: 20165 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1981-6	SS11	Soluble	Solid	300.0	20130
MB 880-20130/1-A	Method Blank	Soluble	Solid	300.0	20130
LCS 880-20130/2-A	Lab Control Sample	Soluble	Solid	300.0	20130
LCSD 880-20130/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	20130
880-11518-A-11-F MS	Matrix Spike	Soluble	Solid	300.0	20130
880-11518-A-11-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	20130

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1981-1
SDG: 31403236.029

Client Sample ID: SS06

Lab Sample ID: 890-1981-1

Date Collected: 02/18/22 12:00

Matrix: Solid

Date Received: 02/21/22 10:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			20198	02/24/22 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	20288	02/26/22 20:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	20468	02/28/22 10:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	20247	02/24/22 15:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			20088	02/22/22 16:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	20116	02/24/22 01:36	AJ	XEN MID
Soluble	Leach	DI Leach			20130	02/23/22 09:54	CH	XEN MID
Soluble	Analysis	300.0		1	20165	02/25/22 10:29	SC	XEN MID

Client Sample ID: SS07

Lab Sample ID: 890-1981-2

Date Collected: 02/18/22 12:10

Matrix: Solid

Date Received: 02/21/22 10:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			20198	02/24/22 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	20288	02/26/22 20:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	20468	02/28/22 10:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	20247	02/24/22 15:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			20088	02/22/22 16:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	20116	02/24/22 01:57	AJ	XEN MID
Soluble	Leach	DI Leach			20130	02/23/22 09:54	CH	XEN MID
Soluble	Analysis	300.0		1	20165	02/25/22 10:36	SC	XEN MID

Client Sample ID: SS08

Lab Sample ID: 890-1981-3

Date Collected: 02/18/22 12:15

Matrix: Solid

Date Received: 02/21/22 10:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			20198	02/24/22 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	20288	02/26/22 20:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	20468	02/28/22 10:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	20247	02/24/22 15:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			20088	02/22/22 16:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	20116	02/24/22 02:17	AJ	XEN MID
Soluble	Leach	DI Leach			20130	02/23/22 09:54	CH	XEN MID
Soluble	Analysis	300.0		1	20165	02/25/22 10:42	SC	XEN MID

Client Sample ID: SS09

Lab Sample ID: 890-1981-4

Date Collected: 02/18/22 12:20

Matrix: Solid

Date Received: 02/21/22 10:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			20198	02/24/22 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	20288	02/26/22 21:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	20468	02/28/22 10:45	AJ	XEN MID

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1981-1
SDG: 31403236.029

Client Sample ID: SS09

Lab Sample ID: 890-1981-4

Date Collected: 02/18/22 12:20

Matrix: Solid

Date Received: 02/21/22 10:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	20247	02/24/22 15:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			20088	02/22/22 16:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	20116	02/24/22 02:37	AJ	XEN MID
Soluble	Leach	DI Leach			20130	02/23/22 09:54	CH	XEN MID
Soluble	Analysis	300.0		1	20165	02/25/22 22:39	SC	XEN MID

Client Sample ID: SS10

Lab Sample ID: 890-1981-5

Date Collected: 02/18/22 12:30

Matrix: Solid

Date Received: 02/21/22 10:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			20198	02/24/22 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	20288	02/26/22 22:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	20468	02/28/22 10:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	20247	02/24/22 15:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			20088	02/22/22 16:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	20116	02/24/22 02:58	AJ	XEN MID
Soluble	Leach	DI Leach			20130	02/23/22 09:54	CH	XEN MID
Soluble	Analysis	300.0		1	20165	02/25/22 22:45	SC	XEN MID

Client Sample ID: SS11

Lab Sample ID: 890-1981-6

Date Collected: 02/18/22 12:35

Matrix: Solid

Date Received: 02/21/22 10:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			20198	02/24/22 10:28	KL	XEN MID
Total/NA	Analysis	8021B		1	20288	02/26/22 23:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1	20468	02/28/22 10:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	20247	02/24/22 15:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			20088	02/22/22 16:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1	20116	02/24/22 03:39	AJ	XEN MID
Soluble	Leach	DI Leach			20130	02/23/22 09:54	CH	XEN MID
Soluble	Analysis	300.0		1	20165	02/25/22 22:52	SC	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1981-1
SDG: 31403236.029

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1981-1
SDG: 31403236.029

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: WSP USA Inc.
Project/Site: PLU 223

Job ID: 890-1981-1
SDG: 31403236.029

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1981-1	SS06	Solid	02/18/22 12:00	02/21/22 10:14	0.5
890-1981-2	SS07	Solid	02/18/22 12:10	02/21/22 10:14	0.5
890-1981-3	SS08	Solid	02/18/22 12:15	02/21/22 10:14	0.5
890-1981-4	SS09	Solid	02/18/22 12:20	02/21/22 10:14	0.5
890-1981-5	SS10	Solid	02/18/22 12:30	02/21/22 10:14	0.5
890-1981-6	SS11	Solid	02/18/22 12:35	02/21/22 10:14	0.5



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-6800 Tampa, FL (813) 620-2000

Chain of Custody
Work Order No: _____
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Project Manager:	Benjamin Belli	Bill to: (if different)	Kyle Little
Company Name:	WSP USA Inc.	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	432.236.3849	Email:	Alexis Castro@wsp.com; Benjamin Belli@wsp.com

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐	Level III ☐
Deliverables: EDD ☐	ADAPT ☐
Other: ☐	

Project Name:	PLU 223	Turn Around	☒
Project Number:	31403236 029	Route:	☒
P.O. Number:		Rush:	
Samplers Name:	Alexis Castro	Due Date:	
SAMPLE RECEIPT			
Temperature (°C):	1.6/1.4	Thermometer ID	11111111
Received In tact:	☒ Yes ☐ No	Correction Factor:	-0.2
Cooler Custody Seals:	☒ Yes ☐ No	Total Containers:	
Sample Custody Seals:	☒ Yes ☐ No		



896-1984 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0-8021)	Chloride (EPA 300.0)	Analysis Request	Work Order Notes	Sample Comments
SS06	S	02/18/2022	1200	0.5'	1	X	X	X		INC: nAPP2201745910 CC: 1137961001	
SS07	S	02/18/2022	1210	0.5'	1	X	X	X			
SS08	S	02/18/2022	1215	0.5'	1	X	X	X			
SS09	S	02/18/2022	1220	0.5'	1	X	X	X			
SS10	S	02/18/2022	1230	0.5'	1	X	X	X			
SS11	S	02/18/2022	1235	0.5'	1	X	X	X			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>WSP</i>	<i>Benjamin Belli</i>	2-21-22 1014			

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1981-1

SDG Number: 31403236.029

Login Number: 1981

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1981-1

SDG Number: 31403236.029

Login Number: 1981

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 02/22/22 02:59 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2406-1

Laboratory Sample Delivery Group: Rural Eddy County
Client Project/Site: PLU 223

For:

Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Ben Belill

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

6/20/2022 2:13:41 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: PLU 223

Laboratory Job ID: 890-2406-1
SDG: Rural Eddy County

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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

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Case Narrative

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Job ID: 890-2406-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-2406-1****Receipt**

The samples were received on 6/10/2022 4:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-27543 and analytical batch 880-27652 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-27544 and analytical batch 880-27744 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: The laboratory control sample duplicate (LCSD) associated with preparation batch 880-27835 and analytical batch 880-27863 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

GC Semi VOA

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-27449 and analytical batch 880-27351 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-27449/2-A), (LCSD 880-27449/3-A) and (890-2404-A-57-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-27469 and analytical batch 880-27465 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: SW01

Lab Sample ID: 890-2406-1

Date Collected: 06/08/22 09:30

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:09	06/17/22 03:14	1
Toluene	0.00259		0.00200	mg/Kg		06/14/22 16:09	06/17/22 03:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:09	06/17/22 03:14	1
m-Xylene & p-Xylene	0.00968	*-	0.00401	mg/Kg		06/14/22 16:09	06/17/22 03:14	1
o-Xylene	0.00237		0.00200	mg/Kg		06/14/22 16:09	06/17/22 03:14	1
Xylenes, Total	0.0121		0.00401	mg/Kg		06/14/22 16:09	06/17/22 03:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	06/14/22 16:09	06/17/22 03:14	1
1,4-Difluorobenzene (Surr)	89		70 - 130	06/14/22 16:09	06/17/22 03:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0146		0.00401	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/14/22 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/13/22 16:14	06/14/22 01:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0	mg/Kg		06/13/22 16:14	06/14/22 01:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/13/22 16:14	06/14/22 01:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			06/13/22 16:14	06/14/22 01:52	1
o-Terphenyl	109		70 - 130			06/13/22 16:14	06/14/22 01:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	173		4.97	mg/Kg			06/18/22 20:41	1

Client Sample ID: SW02

Lab Sample ID: 890-2406-2

Date Collected: 06/08/22 12:00

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:09	06/17/22 04:38	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:09	06/17/22 04:38	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:09	06/17/22 04:38	1
m-Xylene & p-Xylene	0.00746	*-	0.00398	mg/Kg		06/14/22 16:09	06/17/22 04:38	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:09	06/17/22 04:38	1
Xylenes, Total	0.00746		0.00398	mg/Kg		06/14/22 16:09	06/17/22 04:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	06/14/22 16:09	06/17/22 04:38	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: SW02

Lab Sample ID: 890-2406-2

Date Collected: 06/08/22 12:00

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130	06/14/22 16:09	06/17/22 04:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00746		0.00398	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/14/22 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/13/22 16:14	06/14/22 02:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0	mg/Kg		06/13/22 16:14	06/14/22 02:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/13/22 16:14	06/14/22 02:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			06/13/22 16:14	06/14/22 02:12	1
o-Terphenyl	104		70 - 130			06/13/22 16:14	06/14/22 02:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.2		4.98	mg/Kg			06/18/22 20:49	1

Client Sample ID: SW03

Lab Sample ID: 890-2406-3

Date Collected: 06/08/22 13:45

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:09	06/17/22 04:59	1
Toluene	0.00222		0.00200	mg/Kg		06/14/22 16:09	06/17/22 04:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:09	06/17/22 04:59	1
m-Xylene & p-Xylene	0.0177	*	0.00400	mg/Kg		06/14/22 16:09	06/17/22 04:59	1
o-Xylene	0.00466		0.00200	mg/Kg		06/14/22 16:09	06/17/22 04:59	1
Xylenes, Total	0.0224		0.00400	mg/Kg		06/14/22 16:09	06/17/22 04:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	06/14/22 16:09	06/17/22 04:59	1
1,4-Difluorobenzene (Surr)	101		70 - 130	06/14/22 16:09	06/17/22 04:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0246		0.00400	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/14/22 09:33	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: SW03

Lab Sample ID: 890-2406-3

Date Collected: 06/08/22 13:45

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 0 - 4

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/13/22 16:14	06/14/22 02:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0	mg/Kg		06/13/22 16:14	06/14/22 02:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/13/22 16:14	06/14/22 02:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			06/13/22 16:14	06/14/22 02:32	1
o-Terphenyl	99		70 - 130			06/13/22 16:14	06/14/22 02:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.1		4.96	mg/Kg			06/18/22 20:57	1

Client Sample ID: SW04

Lab Sample ID: 890-2406-4

Date Collected: 06/08/22 11:30

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:09	06/17/22 05:20	1
Toluene	0.00245		0.00200	mg/Kg		06/14/22 16:09	06/17/22 05:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:09	06/17/22 05:20	1
m-Xylene & p-Xylene	0.0109	*	0.00399	mg/Kg		06/14/22 16:09	06/17/22 05:20	1
o-Xylene	0.00288		0.00200	mg/Kg		06/14/22 16:09	06/17/22 05:20	1
Xylenes, Total	0.0138		0.00399	mg/Kg		06/14/22 16:09	06/17/22 05:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			06/14/22 16:09	06/17/22 05:20	1
1,4-Difluorobenzene (Surr)	103		70 - 130			06/14/22 16:09	06/17/22 05:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0162		0.00399	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/14/22 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/13/22 16:14	06/14/22 02:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9	mg/Kg		06/13/22 16:14	06/14/22 02:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/13/22 16:14	06/14/22 02:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			06/13/22 16:14	06/14/22 02:52	1
o-Terphenyl	106		70 - 130			06/13/22 16:14	06/14/22 02:52	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: SW04

Lab Sample ID: 890-2406-4

Date Collected: 06/08/22 11:30

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 0 - 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	308		5.04	mg/Kg			06/18/22 21:05	1

Client Sample ID: SW05

Lab Sample ID: 890-2406-5

Date Collected: 06/08/22 14:00

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		06/14/22 16:09	06/17/22 05:40	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/14/22 16:09	06/17/22 05:40	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/14/22 16:09	06/17/22 05:40	1
m-Xylene & p-Xylene	<0.00396	U *	0.00396	mg/Kg		06/14/22 16:09	06/17/22 05:40	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/14/22 16:09	06/17/22 05:40	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		06/14/22 16:09	06/17/22 05:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			06/14/22 16:09	06/17/22 05:40	1
1,4-Difluorobenzene (Surr)	86		70 - 130			06/14/22 16:09	06/17/22 05:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/14/22 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/13/22 16:14	06/14/22 03:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0	mg/Kg		06/13/22 16:14	06/14/22 03:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/13/22 16:14	06/14/22 03:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			06/13/22 16:14	06/14/22 03:32	1
o-Terphenyl	111		70 - 130			06/13/22 16:14	06/14/22 03:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	153		5.01	mg/Kg			06/18/22 21:13	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: SW06

Lab Sample ID: 890-2406-6

Date Collected: 06/10/22 00:00

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/14/22 16:09	06/17/22 06:01	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/14/22 16:09	06/17/22 06:01	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/14/22 16:09	06/17/22 06:01	1
m-Xylene & p-Xylene	<0.00403	U *	0.00403	mg/Kg		06/14/22 16:09	06/17/22 06:01	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/14/22 16:09	06/17/22 06:01	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		06/14/22 16:09	06/17/22 06:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	06/14/22 16:09	06/17/22 06:01	1
1,4-Difluorobenzene (Surr)	102		70 - 130	06/14/22 16:09	06/17/22 06:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/14/22 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/13/22 16:14	06/14/22 03:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U *	50.0	mg/Kg		06/13/22 16:14	06/14/22 03:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/13/22 16:14	06/14/22 03:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	06/13/22 16:14	06/14/22 03:53	1
o-Terphenyl	97		70 - 130	06/13/22 16:14	06/14/22 03:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.9		4.98	mg/Kg			06/18/22 21:36	1

Client Sample ID: SW07

Lab Sample ID: 890-2406-7

Date Collected: 06/10/22 08:50

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:09	06/17/22 06:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:09	06/17/22 06:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:09	06/17/22 06:22	1
m-Xylene & p-Xylene	<0.00398	U *	0.00398	mg/Kg		06/14/22 16:09	06/17/22 06:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:09	06/17/22 06:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/14/22 16:09	06/17/22 06:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	06/14/22 16:09	06/17/22 06:22	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: SW07

Lab Sample ID: 890-2406-7

Date Collected: 06/10/22 08:50

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130	06/14/22 16:09	06/17/22 06:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/14/22 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/13/22 16:14	06/14/22 04:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9	mg/Kg		06/13/22 16:14	06/14/22 04:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/13/22 16:14	06/14/22 04:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			06/13/22 16:14	06/14/22 04:13	1
o-Terphenyl	128		70 - 130			06/13/22 16:14	06/14/22 04:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.8		4.98	mg/Kg			06/18/22 21:44	1

Client Sample ID: SW08

Lab Sample ID: 890-2406-8

Date Collected: 06/10/22 00:00

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/14/22 16:09	06/17/22 06:42	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/14/22 16:09	06/17/22 06:42	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/14/22 16:09	06/17/22 06:42	1
m-Xylene & p-Xylene	<0.00402	U *	0.00402	mg/Kg		06/14/22 16:09	06/17/22 06:42	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/14/22 16:09	06/17/22 06:42	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/14/22 16:09	06/17/22 06:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	06/14/22 16:09	06/17/22 06:42	1
1,4-Difluorobenzene (Surr)	104		70 - 130	06/14/22 16:09	06/17/22 06:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/14/22 09:33	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: SW08

Lab Sample ID: 890-2406-8

Date Collected: 06/10/22 00:00

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 0 - 4

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/13/22 16:14	06/14/22 04:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9	mg/Kg		06/13/22 16:14	06/14/22 04:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/13/22 16:14	06/14/22 04:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			06/13/22 16:14	06/14/22 04:33	1
o-Terphenyl	103		70 - 130			06/13/22 16:14	06/14/22 04:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.9		5.05	mg/Kg			06/18/22 22:08	1

Client Sample ID: SW09

Lab Sample ID: 890-2406-9

Date Collected: 06/10/22 09:00

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:09	06/17/22 07:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:09	06/17/22 07:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:09	06/17/22 07:03	1
m-Xylene & p-Xylene	<0.00401	U *	0.00401	mg/Kg		06/14/22 16:09	06/17/22 07:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:09	06/17/22 07:03	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		06/14/22 16:09	06/17/22 07:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			06/14/22 16:09	06/17/22 07:03	1
1,4-Difluorobenzene (Surr)	105		70 - 130			06/14/22 16:09	06/17/22 07:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/14/22 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/13/22 16:14	06/14/22 04:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0	mg/Kg		06/13/22 16:14	06/14/22 04:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/13/22 16:14	06/14/22 04:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			06/13/22 16:14	06/14/22 04:53	1
o-Terphenyl	108		70 - 130			06/13/22 16:14	06/14/22 04:53	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: SW09

Lab Sample ID: 890-2406-9

Date Collected: 06/10/22 09:00

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 0 - 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	384		5.00	mg/Kg			06/18/22 22:15	1

Client Sample ID: FS01

Lab Sample ID: 890-2406-10

Date Collected: 06/08/22 09:45

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:09	06/17/22 07:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:09	06/17/22 07:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:09	06/17/22 07:24	1
m-Xylene & p-Xylene	<0.00398	U *	0.00398	mg/Kg		06/14/22 16:09	06/17/22 07:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:09	06/17/22 07:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/14/22 16:09	06/17/22 07:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			06/14/22 16:09	06/17/22 07:24	1
1,4-Difluorobenzene (Surr)	108		70 - 130			06/14/22 16:09	06/17/22 07:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	739		50.0	mg/Kg			06/14/22 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/13/22 16:14	06/14/22 05:14	1
Diesel Range Organics (Over C10-C28)	537	*+	50.0	mg/Kg		06/13/22 16:14	06/14/22 05:14	1
Oil Range Organics (Over C28-C36)	202		50.0	mg/Kg		06/13/22 16:14	06/14/22 05:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			06/13/22 16:14	06/14/22 05:14	1
o-Terphenyl	118		70 - 130			06/13/22 16:14	06/14/22 05:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5850		50.0	mg/Kg			06/18/22 22:23	10

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: FS02

Lab Sample ID: 890-2406-11

Date Collected: 06/08/22 09:50

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:09	06/17/22 07:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:09	06/17/22 07:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:09	06/17/22 07:45	1
m-Xylene & p-Xylene	0.00595	*-	0.00399	mg/Kg		06/14/22 16:09	06/17/22 07:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:09	06/17/22 07:45	1
Xylenes, Total	0.00595		0.00399	mg/Kg		06/14/22 16:09	06/17/22 07:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	06/14/22 16:09	06/17/22 07:45	1
1,4-Difluorobenzene (Surr)	107		70 - 130	06/14/22 16:09	06/17/22 07:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00595		0.00399	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/14/22 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/13/22 16:14	06/14/22 05:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0	mg/Kg		06/13/22 16:14	06/14/22 05:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/13/22 16:14	06/14/22 05:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			06/13/22 16:14	06/14/22 05:34	1
o-Terphenyl	113		70 - 130			06/13/22 16:14	06/14/22 05:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6350		49.9	mg/Kg			06/18/22 22:31	10

Client Sample ID: FS03

Lab Sample ID: 890-2406-12

Date Collected: 06/08/22 10:00

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:18	06/17/22 11:52	1
Toluene	0.00663	F1	0.00199	mg/Kg		06/14/22 16:18	06/17/22 11:52	1
Ethylbenzene	0.00331	F1	0.00199	mg/Kg		06/14/22 16:18	06/17/22 11:52	1
m-Xylene & p-Xylene	0.0388	F1	0.00398	mg/Kg		06/14/22 16:18	06/17/22 11:52	1
o-Xylene	0.0108		0.00199	mg/Kg		06/14/22 16:18	06/17/22 11:52	1
Xylenes, Total	0.0496	F1	0.00398	mg/Kg		06/14/22 16:18	06/17/22 11:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	06/14/22 16:18	06/17/22 11:52	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: FS03

Lab Sample ID: 890-2406-12

Date Collected: 06/08/22 10:00

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	06/14/22 16:18	06/17/22 11:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0595		0.00398	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/14/22 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/13/22 16:14	06/14/22 05:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9	mg/Kg		06/13/22 16:14	06/14/22 05:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/13/22 16:14	06/14/22 05:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			06/13/22 16:14	06/14/22 05:54	1
o-Terphenyl	111		70 - 130			06/13/22 16:14	06/14/22 05:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	355		4.95	mg/Kg			06/18/22 22:39	1

Client Sample ID: FS04

Lab Sample ID: 890-2406-13

Date Collected: 06/10/22 09:05

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:18	06/17/22 12:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:18	06/17/22 12:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:18	06/17/22 12:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/14/22 16:18	06/17/22 12:13	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:18	06/17/22 12:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/14/22 16:18	06/17/22 12:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	06/14/22 16:18	06/17/22 12:13	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/14/22 16:18	06/17/22 12:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/14/22 09:33	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: FS04

Lab Sample ID: 890-2406-13

Date Collected: 06/10/22 09:05

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9	mg/Kg		06/14/22 08:45	06/14/22 12:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/14/22 08:45	06/14/22 12:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/14/22 08:45	06/14/22 12:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130			06/14/22 08:45	06/14/22 12:46	1
o-Terphenyl	73		70 - 130			06/14/22 08:45	06/14/22 12:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9980		99.0	mg/Kg			06/18/22 22:47	20

Client Sample ID: FS05

Lab Sample ID: 890-2406-14

Date Collected: 06/10/22 09:10

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		06/14/22 16:18	06/17/22 12:33	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/14/22 16:18	06/17/22 12:33	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/14/22 16:18	06/17/22 12:33	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		06/14/22 16:18	06/17/22 12:33	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/14/22 16:18	06/17/22 12:33	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		06/14/22 16:18	06/17/22 12:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			06/14/22 16:18	06/17/22 12:33	1
1,4-Difluorobenzene (Surr)	100		70 - 130			06/14/22 16:18	06/17/22 12:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/14/22 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9	mg/Kg		06/14/22 08:45	06/14/22 13:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/14/22 08:45	06/14/22 13:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/14/22 08:45	06/14/22 13:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130			06/14/22 08:45	06/14/22 13:52	1
o-Terphenyl	75		70 - 130			06/14/22 08:45	06/14/22 13:52	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: FS05

Lab Sample ID: 890-2406-14

Date Collected: 06/10/22 09:10

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1380		24.9	mg/Kg			06/18/22 22:55	5

Client Sample ID: FS06

Lab Sample ID: 890-2406-15

Date Collected: 06/10/22 00:00

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:18	06/17/22 12:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:18	06/17/22 12:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:18	06/17/22 12:54	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		06/14/22 16:18	06/17/22 12:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:18	06/17/22 12:54	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		06/14/22 16:18	06/17/22 12:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			06/14/22 16:18	06/17/22 12:54	1
1,4-Difluorobenzene (Surr)	100		70 - 130			06/14/22 16:18	06/17/22 12:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/14/22 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	50.0	mg/Kg		06/14/22 08:45	06/14/22 14:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/14/22 08:45	06/14/22 14:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/14/22 08:45	06/14/22 14:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130			06/14/22 08:45	06/14/22 14:14	1
o-Terphenyl	73		70 - 130			06/14/22 08:45	06/14/22 14:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	339		4.99	mg/Kg			06/19/22 03:45	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: FS07

Lab Sample ID: 890-2406-16

Date Collected: 06/10/22 09:20

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/14/22 16:18	06/17/22 13:14	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/14/22 16:18	06/17/22 13:14	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/14/22 16:18	06/17/22 13:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/14/22 16:18	06/17/22 13:14	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/14/22 16:18	06/17/22 13:14	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/14/22 16:18	06/17/22 13:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/14/22 16:18	06/17/22 13:14	1
1,4-Difluorobenzene (Surr)	98		70 - 130	06/14/22 16:18	06/17/22 13:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/14/22 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9	mg/Kg		06/14/22 08:45	06/14/22 14:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/14/22 08:45	06/14/22 14:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/14/22 08:45	06/14/22 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	06/14/22 08:45	06/14/22 14:36	1
o-Terphenyl	76		70 - 130	06/14/22 08:45	06/14/22 14:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	163		5.03	mg/Kg			06/19/22 03:53	1

Client Sample ID: FS08

Lab Sample ID: 890-2406-17

Date Collected: 06/10/22 00:00

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/14/22 16:18	06/17/22 13:35	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/14/22 16:18	06/17/22 13:35	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/14/22 16:18	06/17/22 13:35	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		06/14/22 16:18	06/17/22 13:35	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/14/22 16:18	06/17/22 13:35	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		06/14/22 16:18	06/17/22 13:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	06/14/22 16:18	06/17/22 13:35	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: FS08

Lab Sample ID: 890-2406-17

Date Collected: 06/10/22 00:00

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	06/14/22 16:18	06/17/22 13:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/14/22 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	50.0	mg/Kg		06/14/22 08:45	06/14/22 14:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/14/22 08:45	06/14/22 14:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/14/22 08:45	06/14/22 14:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130			06/14/22 08:45	06/14/22 14:58	1
o-Terphenyl	73		70 - 130			06/14/22 08:45	06/14/22 14:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	450		4.98	mg/Kg			06/19/22 04:01	1

Client Sample ID: FS09

Lab Sample ID: 890-2406-18

Date Collected: 06/10/22 05:03

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *	0.00201	mg/Kg		06/17/22 16:12	06/19/22 07:55	1
Toluene	<0.00201	U *	0.00201	mg/Kg		06/17/22 16:12	06/19/22 07:55	1
Ethylbenzene	<0.00201	U *	0.00201	mg/Kg		06/17/22 16:12	06/19/22 07:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/17/22 16:12	06/19/22 07:55	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/17/22 16:12	06/19/22 07:55	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/17/22 16:12	06/19/22 07:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	06/17/22 16:12	06/19/22 07:55	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/17/22 16:12	06/19/22 07:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/14/22 09:33	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: FS09

Lab Sample ID: 890-2406-18

Date Collected: 06/10/22 05:03

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9	mg/Kg		06/14/22 08:45	06/14/22 15:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/14/22 08:45	06/14/22 15:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/14/22 08:45	06/14/22 15:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			06/14/22 08:45	06/14/22 15:20	1
o-Terphenyl	88		70 - 130			06/14/22 08:45	06/14/22 15:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2280		24.8	mg/Kg			06/19/22 04:09	5

Client Sample ID: FS10

Lab Sample ID: 890-2406-19

Date Collected: 06/10/22 09:45

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:18	06/17/22 14:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:18	06/17/22 14:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:18	06/17/22 14:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/14/22 16:18	06/17/22 14:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:18	06/17/22 14:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/14/22 16:18	06/17/22 14:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			06/14/22 16:18	06/17/22 14:15	1
1,4-Difluorobenzene (Surr)	98		70 - 130			06/14/22 16:18	06/17/22 14:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/14/22 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9	mg/Kg		06/14/22 08:45	06/14/22 15:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/14/22 08:45	06/14/22 15:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/14/22 08:45	06/14/22 15:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			06/14/22 08:45	06/14/22 15:42	1
o-Terphenyl	89		70 - 130			06/14/22 08:45	06/14/22 15:42	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: FS10

Lab Sample ID: 890-2406-19

Date Collected: 06/10/22 09:45

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2680		25.0	mg/Kg			06/19/22 04:17	5

Client Sample ID: FS11

Lab Sample ID: 890-2406-20

Date Collected: 06/10/22 09:50

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:18	06/17/22 14:36	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:18	06/17/22 14:36	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:18	06/17/22 14:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/14/22 16:18	06/17/22 14:36	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:18	06/17/22 14:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/14/22 16:18	06/17/22 14:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			06/14/22 16:18	06/17/22 14:36	1
1,4-Difluorobenzene (Surr)	101		70 - 130			06/14/22 16:18	06/17/22 14:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/14/22 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9	mg/Kg		06/14/22 08:45	06/14/22 16:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/14/22 08:45	06/14/22 16:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/14/22 08:45	06/14/22 16:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130			06/14/22 08:45	06/14/22 16:04	1
o-Terphenyl	73		70 - 130			06/14/22 08:45	06/14/22 16:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	736		4.98	mg/Kg			06/19/22 04:25	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: FS12

Lab Sample ID: 890-2406-21

Date Collected: 06/10/22 09:55

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		06/14/22 16:18	06/17/22 14:56	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/14/22 16:18	06/17/22 14:56	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/14/22 16:18	06/17/22 14:56	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		06/14/22 16:18	06/17/22 14:56	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/14/22 16:18	06/17/22 14:56	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		06/14/22 16:18	06/17/22 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/14/22 16:18	06/17/22 14:56	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/14/22 16:18	06/17/22 14:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/14/22 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9	mg/Kg		06/14/22 08:45	06/14/22 16:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/14/22 08:45	06/14/22 16:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/14/22 08:45	06/14/22 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	06/14/22 08:45	06/14/22 16:26	1
o-Terphenyl	71		70 - 130	06/14/22 08:45	06/14/22 16:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	713		5.01	mg/Kg			06/19/22 04:48	1

Client Sample ID: FS13

Lab Sample ID: 890-2406-22

Date Collected: 06/10/22 10:45

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:18	06/17/22 16:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:18	06/17/22 16:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:18	06/17/22 16:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		06/14/22 16:18	06/17/22 16:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:18	06/17/22 16:48	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		06/14/22 16:18	06/17/22 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	06/14/22 16:18	06/17/22 16:48	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: FS13

Lab Sample ID: 890-2406-22

Date Collected: 06/10/22 10:45

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96		70 - 130	06/14/22 16:18	06/17/22 16:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/14/22 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	50.0	mg/Kg		06/14/22 08:45	06/14/22 16:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/14/22 08:45	06/14/22 16:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/14/22 08:45	06/14/22 16:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130			06/14/22 08:45	06/14/22 16:48	1
o-Terphenyl	87		70 - 130			06/14/22 08:45	06/14/22 16:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	299		4.96	mg/Kg			06/19/22 04:56	1

Client Sample ID: FS14

Lab Sample ID: 890-2406-23

Date Collected: 06/10/22 10:50

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:18	06/17/22 17:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:18	06/17/22 17:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:18	06/17/22 17:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/14/22 16:18	06/17/22 17:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:18	06/17/22 17:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/14/22 16:18	06/17/22 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	06/14/22 16:18	06/17/22 17:08	1
1,4-Difluorobenzene (Surr)	98		70 - 130	06/14/22 16:18	06/17/22 17:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/14/22 09:33	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: FS14

Lab Sample ID: 890-2406-23

Date Collected: 06/10/22 10:50

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9	mg/Kg		06/14/22 08:45	06/14/22 17:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/14/22 08:45	06/14/22 17:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/14/22 08:45	06/14/22 17:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130			06/14/22 08:45	06/14/22 17:40	1
o-Terphenyl	75		70 - 130			06/14/22 08:45	06/14/22 17:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	281		5.01	mg/Kg			06/19/22 05:20	1

Client Sample ID: FS15

Lab Sample ID: 890-2406-24

Date Collected: 06/10/22 10:00

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:18	06/17/22 17:29	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:18	06/17/22 17:29	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:18	06/17/22 17:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/14/22 16:18	06/17/22 17:29	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/14/22 16:18	06/17/22 17:29	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/14/22 16:18	06/17/22 17:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			06/14/22 16:18	06/17/22 17:29	1
1,4-Difluorobenzene (Surr)	99		70 - 130			06/14/22 16:18	06/17/22 17:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/14/22 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	50.0	mg/Kg		06/14/22 08:45	06/14/22 18:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/14/22 08:45	06/14/22 18:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/14/22 08:45	06/14/22 18:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130			06/14/22 08:45	06/14/22 18:03	1
o-Terphenyl	73		70 - 130			06/14/22 08:45	06/14/22 18:03	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: FS15

Lab Sample ID: 890-2406-24

Date Collected: 06/10/22 10:00

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	715		4.97	mg/Kg			06/19/22 05:27	1

Client Sample ID: FS16

Lab Sample ID: 890-2406-25

Date Collected: 06/10/22 10:05

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:18	06/17/22 17:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:18	06/17/22 17:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:18	06/17/22 17:49	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		06/14/22 16:18	06/17/22 17:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:18	06/17/22 17:49	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		06/14/22 16:18	06/17/22 17:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			06/14/22 16:18	06/17/22 17:49	1
1,4-Difluorobenzene (Surr)	101		70 - 130			06/14/22 16:18	06/17/22 17:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			06/14/22 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *	49.8	mg/Kg		06/14/22 08:45	06/14/22 18:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/14/22 08:45	06/14/22 18:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/14/22 08:45	06/14/22 18:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130			06/14/22 08:45	06/14/22 18:25	1
o-Terphenyl	75		70 - 130			06/14/22 08:45	06/14/22 18:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6020		50.0	mg/Kg			06/19/22 05:35	10

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: FS17

Lab Sample ID: 890-2406-26

Date Collected: 06/10/22 10:10

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/14/22 16:18	06/17/22 18:10	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/14/22 16:18	06/17/22 18:10	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/14/22 16:18	06/17/22 18:10	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		06/14/22 16:18	06/17/22 18:10	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/14/22 16:18	06/17/22 18:10	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		06/14/22 16:18	06/17/22 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	06/14/22 16:18	06/17/22 18:10	1
1,4-Difluorobenzene (Surr)	98		70 - 130	06/14/22 16:18	06/17/22 18:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/14/22 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	50.0	mg/Kg		06/14/22 08:45	06/14/22 18:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/14/22 08:45	06/14/22 18:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/14/22 08:45	06/14/22 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	06/14/22 08:45	06/14/22 18:47	1
o-Terphenyl	74		70 - 130	06/14/22 08:45	06/14/22 18:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2930		25.0	mg/Kg			06/19/22 05:43	5

Client Sample ID: FS18

Lab Sample ID: 890-2406-27

Date Collected: 06/10/22 10:15

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/14/22 16:18	06/17/22 18:30	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/14/22 16:18	06/17/22 18:30	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/14/22 16:18	06/17/22 18:30	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		06/14/22 16:18	06/17/22 18:30	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/14/22 16:18	06/17/22 18:30	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		06/14/22 16:18	06/17/22 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/14/22 16:18	06/17/22 18:30	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: FS18

Lab Sample ID: 890-2406-27

Date Collected: 06/10/22 10:15

Matrix: Solid

Date Received: 06/10/22 16:12

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	06/14/22 16:18	06/17/22 18:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			06/17/22 09:35	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/14/22 09:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9	mg/Kg		06/14/22 08:45	06/14/22 19:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/14/22 08:45	06/14/22 19:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/14/22 08:45	06/14/22 19:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130			06/14/22 08:45	06/14/22 19:09	1
o-Terphenyl	76		70 - 130			06/14/22 08:45	06/14/22 19:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9030		99.4	mg/Kg			06/19/22 05:51	20

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Surrogate Summary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-2404-A-51-C MS	Matrix Spike	94	106
890-2404-A-51-D MSD	Matrix Spike Duplicate	92	104
890-2406-1	SW01	90	89
890-2406-2	SW02	90	100
890-2406-3	SW03	99	101
890-2406-4	SW04	109	103
890-2406-5	SW05	96	86
890-2406-6	SW06	93	102
890-2406-7	SW07	94	99
890-2406-8	SW08	95	104
890-2406-9	SW09	92	105
890-2406-10	FS01	94	108
890-2406-11	FS02	90	107
890-2406-12	FS03	107	91
890-2406-12 MS	FS03	97	99
890-2406-12 MSD	FS03	98	100
890-2406-13	FS04	97	100
890-2406-14	FS05	99	100
890-2406-15	FS06	99	100
890-2406-16	FS07	100	98
890-2406-17	FS08	97	98
890-2406-18	FS09	112	95
890-2406-18 MS	FS09	109	96
890-2406-18 MSD	FS09	110	97
890-2406-19	FS10	104	98
890-2406-20	FS11	105	101
890-2406-21	FS12	101	100
890-2406-22	FS13	106	96
890-2406-23	FS14	97	98
890-2406-24	FS15	99	99
890-2406-25	FS16	102	101
890-2406-26	FS17	98	98
890-2406-27	FS18	101	101
LCS 880-27543/1-A	Lab Control Sample	83	104
LCS 880-27544/1-A	Lab Control Sample	100	96
LCS 880-27835/1-A	Lab Control Sample	110	96
LCSD 880-27543/2-A	Lab Control Sample Dup	86	102
LCSD 880-27544/2-A	Lab Control Sample Dup	105	99
LCSD 880-27835/2-A	Lab Control Sample Dup	107	95
MB 880-27543/5-A	Method Blank	89	108
MB 880-27544/5-A	Method Blank	94	98
MB 880-27654/5-A	Method Blank	87	108
MB 880-27796/5-A	Method Blank	99	90
MB 880-27835/5-A	Method Blank	99	88

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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Surrogate Summary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2404-A-57-B MS	Matrix Spike	108	113
890-2404-A-57-C MSD	Matrix Spike Duplicate	97	105
890-2406-1	SW01	93	109
890-2406-2	SW02	90	104
890-2406-3	SW03	84	99
890-2406-4	SW04	92	106
890-2406-5	SW05	95	111
890-2406-6	SW06	86	97
890-2406-7	SW07	109	128
890-2406-8	SW08	91	103
890-2406-9	SW09	94	108
890-2406-10	FS01	102	118
890-2406-11	FS02	98	113
890-2406-12	FS03	93	111
890-2406-13	FS04	73	73
890-2406-13 MS	FS04	83	75
890-2406-13 MSD	FS04	85	77
890-2406-14	FS05	73	75
890-2406-15	FS06	71	73
890-2406-16	FS07	74	76
890-2406-17	FS08	72	73
890-2406-18	FS09	87	88
890-2406-19	FS10	86	89
890-2406-20	FS11	74	73
890-2406-21	FS12	73	71
890-2406-22	FS13	83	87
890-2406-23	FS14	74	75
890-2406-24	FS15	72	73
890-2406-25	FS16	74	75
890-2406-26	FS17	74	74
890-2406-27	FS18	74	76
LCS 880-27449/2-A	Lab Control Sample	125	137 S1+
LCS 880-27469/2-A	Lab Control Sample	75	75
LCSD 880-27449/3-A	Lab Control Sample Dup	123	132 S1+
LCSD 880-27469/3-A	Lab Control Sample Dup	79	78
MB 880-27449/1-A	Method Blank	104	125
MB 880-27469/1-A	Method Blank	84	94

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-27543/5-A

Matrix: Solid

Analysis Batch: 27652

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27543

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:09	06/16/22 23:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:09	06/16/22 23:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:09	06/16/22 23:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/14/22 16:09	06/16/22 23:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:09	06/16/22 23:46	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/14/22 16:09	06/16/22 23:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	06/14/22 16:09	06/16/22 23:46	1
1,4-Difluorobenzene (Surr)	108		70 - 130	06/14/22 16:09	06/16/22 23:46	1

Lab Sample ID: LCS 880-27543/1-A

Matrix: Solid

Analysis Batch: 27652

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09561		mg/Kg		96	70 - 130
Toluene	0.100	0.08717		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.07436		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	0.200	0.1378	*-	mg/Kg		69	70 - 130
o-Xylene	0.100	0.07656		mg/Kg		77	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-27543/2-A

Matrix: Solid

Analysis Batch: 27652

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 27543

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09791		mg/Kg		98	70 - 130	2	35
Toluene	0.100	0.09109		mg/Kg		91	70 - 130	4	35
Ethylbenzene	0.100	0.07822		mg/Kg		78	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1487		mg/Kg		74	70 - 130	8	35
o-Xylene	0.100	0.08168		mg/Kg		82	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-2404-A-51-C MS

Matrix: Solid

Analysis Batch: 27652

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 27543

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.101	0.09836		mg/Kg		97	70 - 130
Toluene	<0.00198	U	0.101	0.09117		mg/Kg		90	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2404-A-51-C MS

Matrix: Solid

Analysis Batch: 27652

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 27543

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.101	0.07369		mg/Kg		73	70 - 130
m-Xylene & p-Xylene	<0.00396	U *	0.202	0.1438		mg/Kg		71	70 - 130
o-Xylene	<0.00198	U	0.101	0.07951		mg/Kg		79	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-2404-A-51-D MSD

Matrix: Solid

Analysis Batch: 27652

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 27543

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.09397		mg/Kg		94	70 - 130	5	35
Toluene	<0.00198	U	0.100	0.08797		mg/Kg		88	70 - 130	4	35
Ethylbenzene	<0.00198	U	0.100	0.07158		mg/Kg		71	70 - 130	3	35
m-Xylene & p-Xylene	<0.00396	U *	0.200	0.1411		mg/Kg		70	70 - 130	2	35
o-Xylene	<0.00198	U	0.100	0.07792		mg/Kg		78	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-27544/5-A

Matrix: Solid

Analysis Batch: 27744

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27544

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:18	06/17/22 11:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:18	06/17/22 11:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:18	06/17/22 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/14/22 16:18	06/17/22 11:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/14/22 16:18	06/17/22 11:23	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/14/22 16:18	06/17/22 11:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	06/14/22 16:18	06/17/22 11:23	1
1,4-Difluorobenzene (Surr)	98		70 - 130	06/14/22 16:18	06/17/22 11:23	1

Lab Sample ID: LCS 880-27544/1-A

Matrix: Solid

Analysis Batch: 27744

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27544

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07904		mg/Kg		79	70 - 130
Toluene	0.100	0.08187		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.08630		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1749		mg/Kg		87	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-27544/1-A

Matrix: Solid

Analysis Batch: 27744

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27544

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09606		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-27544/2-A

Matrix: Solid

Analysis Batch: 27744

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 27544

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09978		mg/Kg		100	70 - 130	23	35
Toluene	0.100	0.1001		mg/Kg		100	70 - 130	20	35
Ethylbenzene	0.100	0.1044		mg/Kg		104	70 - 130	19	35
m-Xylene & p-Xylene	0.200	0.2098		mg/Kg		105	70 - 130	18	35
o-Xylene	0.100	0.1140		mg/Kg		114	70 - 130	17	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-2406-12 MS

Matrix: Solid

Analysis Batch: 27744

Client Sample ID: FS03

Prep Type: Total/NA

Prep Batch: 27544

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0992	0.07448		mg/Kg		75	70 - 130
Toluene	0.00663	F1	0.0992	0.07125	F1	mg/Kg		65	70 - 130
Ethylbenzene	0.00331	F1	0.0992	0.07217	F1	mg/Kg		69	70 - 130
m-Xylene & p-Xylene	0.0388	F1	0.198	0.1625	F1	mg/Kg		62	70 - 130
o-Xylene	0.0108		0.0992	0.08378		mg/Kg		74	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-2406-12 MSD

Matrix: Solid

Analysis Batch: 27744

Client Sample ID: FS03

Prep Type: Total/NA

Prep Batch: 27544

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.09018		mg/Kg		90	70 - 130	19	35
Toluene	0.00663	F1	0.100	0.08325		mg/Kg		76	70 - 130	16	35
Ethylbenzene	0.00331	F1	0.100	0.08506		mg/Kg		82	70 - 130	16	35
m-Xylene & p-Xylene	0.0388	F1	0.200	0.1891		mg/Kg		75	70 - 130	15	35
o-Xylene	0.0108		0.100	0.09840		mg/Kg		87	70 - 130	16	35

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QC Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2406-12 MSD

Matrix: Solid

Analysis Batch: 27744

Client Sample ID: FS03

Prep Type: Total/NA

Prep Batch: 27544

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-27654/5-A

Matrix: Solid

Analysis Batch: 27652

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27654

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		06/16/22 08:23	06/16/22 13:01	1	
Toluene	<0.00200	U	0.00200	mg/Kg		06/16/22 08:23	06/16/22 13:01	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/16/22 08:23	06/16/22 13:01	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/16/22 08:23	06/16/22 13:01	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/16/22 08:23	06/16/22 13:01	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/16/22 08:23	06/16/22 13:01	1	
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	87		70 - 130			06/16/22 08:23	06/16/22 13:01	1	
1,4-Difluorobenzene (Surr)	108		70 - 130			06/16/22 08:23	06/16/22 13:01	1	

Lab Sample ID: MB 880-27796/5-A

Matrix: Solid

Analysis Batch: 27863

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27796

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		06/17/22 10:10	06/18/22 21:00	1	
Toluene	<0.00200	U	0.00200	mg/Kg		06/17/22 10:10	06/18/22 21:00	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/17/22 10:10	06/18/22 21:00	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/17/22 10:10	06/18/22 21:00	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/17/22 10:10	06/18/22 21:00	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/17/22 10:10	06/18/22 21:00	1	
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	99		70 - 130			06/17/22 10:10	06/18/22 21:00	1	
1,4-Difluorobenzene (Surr)	90		70 - 130			06/17/22 10:10	06/18/22 21:00	1	

Lab Sample ID: MB 880-27835/5-A

Matrix: Solid

Analysis Batch: 27863

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27835

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		06/17/22 16:12	06/19/22 07:33	1	
Toluene	<0.00200	U	0.00200	mg/Kg		06/17/22 16:12	06/19/22 07:33	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/17/22 16:12	06/19/22 07:33	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/17/22 16:12	06/19/22 07:33	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/17/22 16:12	06/19/22 07:33	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/17/22 16:12	06/19/22 07:33	1	

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QC Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-27835/5-A

Matrix: Solid

Analysis Batch: 27863

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27835

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	06/17/22 16:12	06/19/22 07:33	1
1,4-Difluorobenzene (Surr)	88		70 - 130	06/17/22 16:12	06/19/22 07:33	1

Lab Sample ID: LCS 880-27835/1-A

Matrix: Solid

Analysis Batch: 27863

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27835

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07072		mg/Kg		71	70 - 130
Toluene	0.100	0.07286		mg/Kg		73	70 - 130
Ethylbenzene	0.100	0.07321		mg/Kg		73	70 - 130
m-Xylene & p-Xylene	0.200	0.1531		mg/Kg		77	70 - 130
o-Xylene	0.100	0.08071		mg/Kg		81	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-27835/2-A

Matrix: Solid

Analysis Batch: 27863

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 27835

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.06706	*-	mg/Kg		67	70 - 130	5	35
Toluene	0.100	0.06853	*-	mg/Kg		69	70 - 130	6	35
Ethylbenzene	0.100	0.06843	*-	mg/Kg		68	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1445		mg/Kg		72	70 - 130	6	35
o-Xylene	0.100	0.07582		mg/Kg		76	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-2406-18 MS

Matrix: Solid

Analysis Batch: 27863

Client Sample ID: FS09

Prep Type: Total/NA

Prep Batch: 27835

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U *-	0.100	0.09145		mg/Kg		91	70 - 130
Toluene	<0.00201	U *-	0.100	0.09094		mg/Kg		89	70 - 130
Ethylbenzene	<0.00201	U *-	0.100	0.08828		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1828		mg/Kg		90	70 - 130
o-Xylene	<0.00201	U	0.100	0.09141		mg/Kg		90	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2406-18 MSD

Matrix: Solid

Analysis Batch: 27863

Client Sample ID: FS09

Prep Type: Total/NA

Prep Batch: 27835

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U *	0.0994	0.07961		mg/Kg		80	70 - 130	14	35
Toluene	<0.00201	U *	0.0994	0.08216		mg/Kg		81	70 - 130	10	35
Ethylbenzene	<0.00201	U *	0.0994	0.08488		mg/Kg		85	70 - 130	4	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1766		mg/Kg		87	70 - 130	3	35
o-Xylene	<0.00201	U	0.0994	0.08832		mg/Kg		88	70 - 130	3	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	110		70 - 130								
1,4-Difluorobenzene (Surr)	97		70 - 130								

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-27449/1-A

Matrix: Solid

Analysis Batch: 27351

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27449

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/13/22 16:14	06/13/22 22:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/13/22 16:14	06/13/22 22:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/13/22 16:14	06/13/22 22:06	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			06/13/22 16:14	06/13/22 22:06	1
o-Terphenyl	125		70 - 130			06/13/22 16:14	06/13/22 22:06	1

Lab Sample ID: LCS 880-27449/2-A

Matrix: Solid

Analysis Batch: 27351

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27449

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1174		mg/Kg		117	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1455	*+	mg/Kg		145	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
1-Chlorooctane	125		70 - 130					
o-Terphenyl	137	S1+	70 - 130					

Lab Sample ID: LCSD 880-27449/3-A

Matrix: Solid

Analysis Batch: 27351

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 27449

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1160		mg/Kg		116	70 - 130	1	20

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QC Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-27449/3-A

Matrix: Solid

Analysis Batch: 27351

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 27449

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	1000	1434	*+	mg/Kg		143	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	123		70 - 130						
o-Terphenyl	132	S1+	70 - 130						

Lab Sample ID: 890-2404-A-57-B MS

Matrix: Solid

Analysis Batch: 27351

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 27449

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1066		mg/Kg		107	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *	998	1010		mg/Kg		101	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	108		70 - 130								
o-Terphenyl	113		70 - 130								

Lab Sample ID: 890-2404-A-57-C MSD

Matrix: Solid

Analysis Batch: 27351

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 27449

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	905.7		mg/Kg		91	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	<49.9	U *	999	941.1		mg/Kg		94	70 - 130	7	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	105		70 - 130								

Lab Sample ID: MB 880-27469/1-A

Matrix: Solid

Analysis Batch: 27465

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27469

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/14/22 08:45	06/14/22 11:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/14/22 08:45	06/14/22 11:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/14/22 08:45	06/14/22 11:20	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane	84		70 - 130	06/14/22 08:45	06/14/22 11:20	1		
o-Terphenyl	94		70 - 130	06/14/22 08:45	06/14/22 11:20	1		

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QC Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-27469/2-A

Matrix: Solid

Analysis Batch: 27465

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27469

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	684.1	*-	mg/Kg		68	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	743.2		mg/Kg		74	70 - 130		

Lab Sample ID: LCSD 880-27469/3-A

Matrix: Solid

Analysis Batch: 27465

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 27469

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	708.0		mg/Kg		71	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	766.8		mg/Kg		77	70 - 130	3	20
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	79		70 - 130								
o-Terphenyl	78		70 - 130								

Lab Sample ID: 890-2406-13 MS

Matrix: Solid

Analysis Batch: 27465

Client Sample ID: FS04

Prep Type: Total/NA

Prep Batch: 27469

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	998	816.8		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	836.6		mg/Kg		81	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	83		70 - 130								
o-Terphenyl	75		70 - 130								

Lab Sample ID: 890-2406-13 MSD

Matrix: Solid

Analysis Batch: 27465

Client Sample ID: FS04

Prep Type: Total/NA

Prep Batch: 27469

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	999	733.4		mg/Kg		73	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	875.9		mg/Kg		85	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	85		70 - 130								

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QC Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-2406-13 MSD

Matrix: Solid

Analysis Batch: 27465

Client Sample ID: FS04

Prep Type: Total/NA

Prep Batch: 27469

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	77		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-27630/1-A

Matrix: Solid

Analysis Batch: 27824

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00	mg/Kg			06/18/22 18:59		1

Lab Sample ID: LCS 880-27630/2-A

Matrix: Solid

Analysis Batch: 27824

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride			250	252.7		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-27630/3-A

Matrix: Solid

Analysis Batch: 27824

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCSD	LCSD				%Rec	RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	Limit
Chloride			250	256.0		mg/Kg		102	90 - 110	20

Lab Sample ID: 890-2406-5 MS

Matrix: Solid

Analysis Batch: 27824

Client Sample ID: SW05

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride	153		251	394.6		mg/Kg		97	90 - 110

Lab Sample ID: 890-2406-5 MSD

Matrix: Solid

Analysis Batch: 27824

Client Sample ID: SW05

Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec	RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	Limit
Chloride	153		251	398.9		mg/Kg		98	90 - 110	20

Lab Sample ID: MB 880-27635/1-A

Matrix: Solid

Analysis Batch: 27843

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00	mg/Kg			06/19/22 02:11		1

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QC Sample Results

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-27635/2-A

Matrix: Solid

Analysis Batch: 27843

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	260.8		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-27635/3-A

Matrix: Solid

Analysis Batch: 27843

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	260.7		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-2406-20 MS

Matrix: Solid

Analysis Batch: 27843

Client Sample ID: FS11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	736		249	959.1		mg/Kg		90	90 - 110		

Lab Sample ID: 890-2406-20 MSD

Matrix: Solid

Analysis Batch: 27843

Client Sample ID: FS11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	736		249	963.8		mg/Kg		91	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

GC VOA

Prep Batch: 27543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2406-1	SW01	Total/NA	Solid	5035	
890-2406-2	SW02	Total/NA	Solid	5035	
890-2406-3	SW03	Total/NA	Solid	5035	
890-2406-4	SW04	Total/NA	Solid	5035	
890-2406-5	SW05	Total/NA	Solid	5035	
890-2406-6	SW06	Total/NA	Solid	5035	
890-2406-7	SW07	Total/NA	Solid	5035	
890-2406-8	SW08	Total/NA	Solid	5035	
890-2406-9	SW09	Total/NA	Solid	5035	
890-2406-10	FS01	Total/NA	Solid	5035	
890-2406-11	FS02	Total/NA	Solid	5035	
MB 880-27543/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27543/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27543/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2404-A-51-C MS	Matrix Spike	Total/NA	Solid	5035	
890-2404-A-51-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 27544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2406-12	FS03	Total/NA	Solid	5035	
890-2406-13	FS04	Total/NA	Solid	5035	
890-2406-14	FS05	Total/NA	Solid	5035	
890-2406-15	FS06	Total/NA	Solid	5035	
890-2406-16	FS07	Total/NA	Solid	5035	
890-2406-17	FS08	Total/NA	Solid	5035	
890-2406-19	FS10	Total/NA	Solid	5035	
890-2406-20	FS11	Total/NA	Solid	5035	
890-2406-21	FS12	Total/NA	Solid	5035	
890-2406-22	FS13	Total/NA	Solid	5035	
890-2406-23	FS14	Total/NA	Solid	5035	
890-2406-24	FS15	Total/NA	Solid	5035	
890-2406-25	FS16	Total/NA	Solid	5035	
890-2406-26	FS17	Total/NA	Solid	5035	
890-2406-27	FS18	Total/NA	Solid	5035	
MB 880-27544/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27544/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27544/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2406-12 MS	FS03	Total/NA	Solid	5035	
890-2406-12 MSD	FS03	Total/NA	Solid	5035	

Analysis Batch: 27652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2406-1	SW01	Total/NA	Solid	8021B	27543
890-2406-2	SW02	Total/NA	Solid	8021B	27543
890-2406-3	SW03	Total/NA	Solid	8021B	27543
890-2406-4	SW04	Total/NA	Solid	8021B	27543
890-2406-5	SW05	Total/NA	Solid	8021B	27543
890-2406-6	SW06	Total/NA	Solid	8021B	27543
890-2406-7	SW07	Total/NA	Solid	8021B	27543
890-2406-8	SW08	Total/NA	Solid	8021B	27543
890-2406-9	SW09	Total/NA	Solid	8021B	27543

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QC Association Summary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

GC VOA (Continued)

Analysis Batch: 27652 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2406-10	FS01	Total/NA	Solid	8021B	27543
890-2406-11	FS02	Total/NA	Solid	8021B	27543
MB 880-27543/5-A	Method Blank	Total/NA	Solid	8021B	27543
MB 880-27654/5-A	Method Blank	Total/NA	Solid	8021B	27654
LCS 880-27543/1-A	Lab Control Sample	Total/NA	Solid	8021B	27543
LCSD 880-27543/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27543
890-2404-A-51-C MS	Matrix Spike	Total/NA	Solid	8021B	27543
890-2404-A-51-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	27543

Prep Batch: 27654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-27654/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 27744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2406-12	FS03	Total/NA	Solid	8021B	27544
890-2406-13	FS04	Total/NA	Solid	8021B	27544
890-2406-14	FS05	Total/NA	Solid	8021B	27544
890-2406-15	FS06	Total/NA	Solid	8021B	27544
890-2406-16	FS07	Total/NA	Solid	8021B	27544
890-2406-17	FS08	Total/NA	Solid	8021B	27544
890-2406-19	FS10	Total/NA	Solid	8021B	27544
890-2406-20	FS11	Total/NA	Solid	8021B	27544
890-2406-21	FS12	Total/NA	Solid	8021B	27544
890-2406-22	FS13	Total/NA	Solid	8021B	27544
890-2406-23	FS14	Total/NA	Solid	8021B	27544
890-2406-24	FS15	Total/NA	Solid	8021B	27544
890-2406-25	FS16	Total/NA	Solid	8021B	27544
890-2406-26	FS17	Total/NA	Solid	8021B	27544
890-2406-27	FS18	Total/NA	Solid	8021B	27544
MB 880-27544/5-A	Method Blank	Total/NA	Solid	8021B	27544
LCS 880-27544/1-A	Lab Control Sample	Total/NA	Solid	8021B	27544
LCSD 880-27544/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27544
890-2406-12 MS	FS03	Total/NA	Solid	8021B	27544
890-2406-12 MSD	FS03	Total/NA	Solid	8021B	27544

Analysis Batch: 27776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2406-1	SW01	Total/NA	Solid	Total BTEX	
890-2406-2	SW02	Total/NA	Solid	Total BTEX	
890-2406-3	SW03	Total/NA	Solid	Total BTEX	
890-2406-4	SW04	Total/NA	Solid	Total BTEX	
890-2406-5	SW05	Total/NA	Solid	Total BTEX	
890-2406-6	SW06	Total/NA	Solid	Total BTEX	
890-2406-7	SW07	Total/NA	Solid	Total BTEX	
890-2406-8	SW08	Total/NA	Solid	Total BTEX	
890-2406-9	SW09	Total/NA	Solid	Total BTEX	
890-2406-10	FS01	Total/NA	Solid	Total BTEX	
890-2406-11	FS02	Total/NA	Solid	Total BTEX	
890-2406-12	FS03	Total/NA	Solid	Total BTEX	
890-2406-13	FS04	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

GC VOA (Continued)

Analysis Batch: 27776 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2406-14	FS05	Total/NA	Solid	Total BTEX	
890-2406-15	FS06	Total/NA	Solid	Total BTEX	
890-2406-16	FS07	Total/NA	Solid	Total BTEX	
890-2406-17	FS08	Total/NA	Solid	Total BTEX	
890-2406-18	FS09	Total/NA	Solid	Total BTEX	
890-2406-19	FS10	Total/NA	Solid	Total BTEX	
890-2406-20	FS11	Total/NA	Solid	Total BTEX	
890-2406-21	FS12	Total/NA	Solid	Total BTEX	
890-2406-22	FS13	Total/NA	Solid	Total BTEX	
890-2406-23	FS14	Total/NA	Solid	Total BTEX	
890-2406-24	FS15	Total/NA	Solid	Total BTEX	
890-2406-25	FS16	Total/NA	Solid	Total BTEX	
890-2406-26	FS17	Total/NA	Solid	Total BTEX	
890-2406-27	FS18	Total/NA	Solid	Total BTEX	

Prep Batch: 27796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-27796/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 27835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2406-18	FS09	Total/NA	Solid	5035	
MB 880-27835/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27835/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27835/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2406-18 MS	FS09	Total/NA	Solid	5035	
890-2406-18 MSD	FS09	Total/NA	Solid	5035	

Analysis Batch: 27863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2406-18	FS09	Total/NA	Solid	8021B	27835
MB 880-27796/5-A	Method Blank	Total/NA	Solid	8021B	27796
MB 880-27835/5-A	Method Blank	Total/NA	Solid	8021B	27835
LCS 880-27835/1-A	Lab Control Sample	Total/NA	Solid	8021B	27835
LCSD 880-27835/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27835
890-2406-18 MS	FS09	Total/NA	Solid	8021B	27835
890-2406-18 MSD	FS09	Total/NA	Solid	8021B	27835

GC Semi VOA

Analysis Batch: 27351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2406-1	SW01	Total/NA	Solid	8015B NM	27449
890-2406-2	SW02	Total/NA	Solid	8015B NM	27449
890-2406-3	SW03	Total/NA	Solid	8015B NM	27449
890-2406-4	SW04	Total/NA	Solid	8015B NM	27449
890-2406-5	SW05	Total/NA	Solid	8015B NM	27449
890-2406-6	SW06	Total/NA	Solid	8015B NM	27449
890-2406-7	SW07	Total/NA	Solid	8015B NM	27449
890-2406-8	SW08	Total/NA	Solid	8015B NM	27449
890-2406-9	SW09	Total/NA	Solid	8015B NM	27449

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QC Association Summary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

GC Semi VOA (Continued)

Analysis Batch: 27351 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2406-10	FS01	Total/NA	Solid	8015B NM	27449
890-2406-11	FS02	Total/NA	Solid	8015B NM	27449
890-2406-12	FS03	Total/NA	Solid	8015B NM	27449
MB 880-27449/1-A	Method Blank	Total/NA	Solid	8015B NM	27449
LCS 880-27449/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27449
LCSD 880-27449/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27449
890-2404-A-57-B MS	Matrix Spike	Total/NA	Solid	8015B NM	27449
890-2404-A-57-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	27449

Prep Batch: 27449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2406-1	SW01	Total/NA	Solid	8015NM Prep	
890-2406-2	SW02	Total/NA	Solid	8015NM Prep	
890-2406-3	SW03	Total/NA	Solid	8015NM Prep	
890-2406-4	SW04	Total/NA	Solid	8015NM Prep	
890-2406-5	SW05	Total/NA	Solid	8015NM Prep	
890-2406-6	SW06	Total/NA	Solid	8015NM Prep	
890-2406-7	SW07	Total/NA	Solid	8015NM Prep	
890-2406-8	SW08	Total/NA	Solid	8015NM Prep	
890-2406-9	SW09	Total/NA	Solid	8015NM Prep	
890-2406-10	FS01	Total/NA	Solid	8015NM Prep	
890-2406-11	FS02	Total/NA	Solid	8015NM Prep	
890-2406-12	FS03	Total/NA	Solid	8015NM Prep	
MB 880-27449/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27449/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27449/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2404-A-57-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2404-A-57-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 27465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2406-13	FS04	Total/NA	Solid	8015B NM	27469
890-2406-14	FS05	Total/NA	Solid	8015B NM	27469
890-2406-15	FS06	Total/NA	Solid	8015B NM	27469
890-2406-16	FS07	Total/NA	Solid	8015B NM	27469
890-2406-17	FS08	Total/NA	Solid	8015B NM	27469
890-2406-18	FS09	Total/NA	Solid	8015B NM	27469
890-2406-19	FS10	Total/NA	Solid	8015B NM	27469
890-2406-20	FS11	Total/NA	Solid	8015B NM	27469
890-2406-21	FS12	Total/NA	Solid	8015B NM	27469
890-2406-22	FS13	Total/NA	Solid	8015B NM	27469
890-2406-23	FS14	Total/NA	Solid	8015B NM	27469
890-2406-24	FS15	Total/NA	Solid	8015B NM	27469
890-2406-25	FS16	Total/NA	Solid	8015B NM	27469
890-2406-26	FS17	Total/NA	Solid	8015B NM	27469
890-2406-27	FS18	Total/NA	Solid	8015B NM	27469
MB 880-27469/1-A	Method Blank	Total/NA	Solid	8015B NM	27469
LCS 880-27469/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27469
LCSD 880-27469/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27469
890-2406-13 MS	FS04	Total/NA	Solid	8015B NM	27469
890-2406-13 MSD	FS04	Total/NA	Solid	8015B NM	27469

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QC Association Summary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

GC Semi VOA

Prep Batch: 27469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2406-13	FS04	Total/NA	Solid	8015NM Prep	
890-2406-14	FS05	Total/NA	Solid	8015NM Prep	
890-2406-15	FS06	Total/NA	Solid	8015NM Prep	
890-2406-16	FS07	Total/NA	Solid	8015NM Prep	
890-2406-17	FS08	Total/NA	Solid	8015NM Prep	
890-2406-18	FS09	Total/NA	Solid	8015NM Prep	
890-2406-19	FS10	Total/NA	Solid	8015NM Prep	
890-2406-20	FS11	Total/NA	Solid	8015NM Prep	
890-2406-21	FS12	Total/NA	Solid	8015NM Prep	
890-2406-22	FS13	Total/NA	Solid	8015NM Prep	
890-2406-23	FS14	Total/NA	Solid	8015NM Prep	
890-2406-24	FS15	Total/NA	Solid	8015NM Prep	
890-2406-25	FS16	Total/NA	Solid	8015NM Prep	
890-2406-26	FS17	Total/NA	Solid	8015NM Prep	
890-2406-27	FS18	Total/NA	Solid	8015NM Prep	
MB 880-27469/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27469/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27469/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2406-13 MS	FS04	Total/NA	Solid	8015NM Prep	
890-2406-13 MSD	FS04	Total/NA	Solid	8015NM Prep	

Analysis Batch: 27481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2406-1	SW01	Total/NA	Solid	8015 NM	
890-2406-2	SW02	Total/NA	Solid	8015 NM	
890-2406-3	SW03	Total/NA	Solid	8015 NM	
890-2406-4	SW04	Total/NA	Solid	8015 NM	
890-2406-5	SW05	Total/NA	Solid	8015 NM	
890-2406-6	SW06	Total/NA	Solid	8015 NM	
890-2406-7	SW07	Total/NA	Solid	8015 NM	
890-2406-8	SW08	Total/NA	Solid	8015 NM	
890-2406-9	SW09	Total/NA	Solid	8015 NM	
890-2406-10	FS01	Total/NA	Solid	8015 NM	
890-2406-11	FS02	Total/NA	Solid	8015 NM	
890-2406-12	FS03	Total/NA	Solid	8015 NM	
890-2406-13	FS04	Total/NA	Solid	8015 NM	
890-2406-14	FS05	Total/NA	Solid	8015 NM	
890-2406-15	FS06	Total/NA	Solid	8015 NM	
890-2406-16	FS07	Total/NA	Solid	8015 NM	
890-2406-17	FS08	Total/NA	Solid	8015 NM	
890-2406-18	FS09	Total/NA	Solid	8015 NM	
890-2406-19	FS10	Total/NA	Solid	8015 NM	
890-2406-20	FS11	Total/NA	Solid	8015 NM	
890-2406-21	FS12	Total/NA	Solid	8015 NM	
890-2406-22	FS13	Total/NA	Solid	8015 NM	
890-2406-23	FS14	Total/NA	Solid	8015 NM	
890-2406-24	FS15	Total/NA	Solid	8015 NM	
890-2406-25	FS16	Total/NA	Solid	8015 NM	
890-2406-26	FS17	Total/NA	Solid	8015 NM	
890-2406-27	FS18	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

HPLC/IC

Leach Batch: 27630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2406-1	SW01	Soluble	Solid	DI Leach	
890-2406-2	SW02	Soluble	Solid	DI Leach	
890-2406-3	SW03	Soluble	Solid	DI Leach	
890-2406-4	SW04	Soluble	Solid	DI Leach	
890-2406-5	SW05	Soluble	Solid	DI Leach	
890-2406-6	SW06	Soluble	Solid	DI Leach	
890-2406-7	SW07	Soluble	Solid	DI Leach	
890-2406-8	SW08	Soluble	Solid	DI Leach	
890-2406-9	SW09	Soluble	Solid	DI Leach	
890-2406-10	FS01	Soluble	Solid	DI Leach	
890-2406-11	FS02	Soluble	Solid	DI Leach	
890-2406-12	FS03	Soluble	Solid	DI Leach	
890-2406-13	FS04	Soluble	Solid	DI Leach	
890-2406-14	FS05	Soluble	Solid	DI Leach	
MB 880-27630/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27630/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27630/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2406-5 MS	SW05	Soluble	Solid	DI Leach	
890-2406-5 MSD	SW05	Soluble	Solid	DI Leach	

Leach Batch: 27635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2406-15	FS06	Soluble	Solid	DI Leach	
890-2406-16	FS07	Soluble	Solid	DI Leach	
890-2406-17	FS08	Soluble	Solid	DI Leach	
890-2406-18	FS09	Soluble	Solid	DI Leach	
890-2406-19	FS10	Soluble	Solid	DI Leach	
890-2406-20	FS11	Soluble	Solid	DI Leach	
890-2406-21	FS12	Soluble	Solid	DI Leach	
890-2406-22	FS13	Soluble	Solid	DI Leach	
890-2406-23	FS14	Soluble	Solid	DI Leach	
890-2406-24	FS15	Soluble	Solid	DI Leach	
890-2406-25	FS16	Soluble	Solid	DI Leach	
890-2406-26	FS17	Soluble	Solid	DI Leach	
890-2406-27	FS18	Soluble	Solid	DI Leach	
MB 880-27635/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27635/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27635/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2406-20 MS	FS11	Soluble	Solid	DI Leach	
890-2406-20 MSD	FS11	Soluble	Solid	DI Leach	

Analysis Batch: 27824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2406-1	SW01	Soluble	Solid	300.0	27630
890-2406-2	SW02	Soluble	Solid	300.0	27630
890-2406-3	SW03	Soluble	Solid	300.0	27630
890-2406-4	SW04	Soluble	Solid	300.0	27630
890-2406-5	SW05	Soluble	Solid	300.0	27630
890-2406-6	SW06	Soluble	Solid	300.0	27630
890-2406-7	SW07	Soluble	Solid	300.0	27630
890-2406-8	SW08	Soluble	Solid	300.0	27630

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QC Association Summary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

HPLC/IC (Continued)

Analysis Batch: 27824 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2406-9	SW09	Soluble	Solid	300.0	27630
890-2406-10	FS01	Soluble	Solid	300.0	27630
890-2406-11	FS02	Soluble	Solid	300.0	27630
890-2406-12	FS03	Soluble	Solid	300.0	27630
890-2406-13	FS04	Soluble	Solid	300.0	27630
890-2406-14	FS05	Soluble	Solid	300.0	27630
MB 880-27630/1-A	Method Blank	Soluble	Solid	300.0	27630
LCS 880-27630/2-A	Lab Control Sample	Soluble	Solid	300.0	27630
LCSD 880-27630/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27630
890-2406-5 MS	SW05	Soluble	Solid	300.0	27630
890-2406-5 MSD	SW05	Soluble	Solid	300.0	27630

Analysis Batch: 27843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2406-15	FS06	Soluble	Solid	300.0	27635
890-2406-16	FS07	Soluble	Solid	300.0	27635
890-2406-17	FS08	Soluble	Solid	300.0	27635
890-2406-18	FS09	Soluble	Solid	300.0	27635
890-2406-19	FS10	Soluble	Solid	300.0	27635
890-2406-20	FS11	Soluble	Solid	300.0	27635
890-2406-21	FS12	Soluble	Solid	300.0	27635
890-2406-22	FS13	Soluble	Solid	300.0	27635
890-2406-23	FS14	Soluble	Solid	300.0	27635
890-2406-24	FS15	Soluble	Solid	300.0	27635
890-2406-25	FS16	Soluble	Solid	300.0	27635
890-2406-26	FS17	Soluble	Solid	300.0	27635
890-2406-27	FS18	Soluble	Solid	300.0	27635
MB 880-27635/1-A	Method Blank	Soluble	Solid	300.0	27635
LCS 880-27635/2-A	Lab Control Sample	Soluble	Solid	300.0	27635
LCSD 880-27635/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27635
890-2406-20 MS	FS11	Soluble	Solid	300.0	27635
890-2406-20 MSD	FS11	Soluble	Solid	300.0	27635

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: SW01

Lab Sample ID: 890-2406-1

Date Collected: 06/08/22 09:30

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	27543	06/14/22 16:09	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27652	06/17/22 03:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27449	06/13/22 16:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/14/22 01:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27630	06/15/22 16:41	CH	XEN MID
Soluble	Analysis	300.0		1			27824	06/18/22 20:41	CH	XEN MID

Client Sample ID: SW02

Lab Sample ID: 890-2406-2

Date Collected: 06/08/22 12:00

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	27543	06/14/22 16:09	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27652	06/17/22 04:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	27449	06/13/22 16:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/14/22 02:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	27630	06/15/22 16:41	CH	XEN MID
Soluble	Analysis	300.0		1			27824	06/18/22 20:49	CH	XEN MID

Client Sample ID: SW03

Lab Sample ID: 890-2406-3

Date Collected: 06/08/22 13:45

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	27543	06/14/22 16:09	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27652	06/17/22 04:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27449	06/13/22 16:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/14/22 02:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	27630	06/15/22 16:41	CH	XEN MID
Soluble	Analysis	300.0		1			27824	06/18/22 20:57	CH	XEN MID

Client Sample ID: SW04

Lab Sample ID: 890-2406-4

Date Collected: 06/08/22 11:30

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	27543	06/14/22 16:09	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27652	06/17/22 05:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: SW04

Lab Sample ID: 890-2406-4

Date Collected: 06/08/22 11:30

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27449	06/13/22 16:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/14/22 02:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	27630	06/15/22 16:41	CH	XEN MID
Soluble	Analysis	300.0		1			27824	06/18/22 21:05	CH	XEN MID

Client Sample ID: SW05

Lab Sample ID: 890-2406-5

Date Collected: 06/08/22 14:00

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	27543	06/14/22 16:09	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27652	06/17/22 05:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27449	06/13/22 16:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/14/22 03:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	27630	06/15/22 16:41	CH	XEN MID
Soluble	Analysis	300.0		1			27824	06/18/22 21:13	CH	XEN MID

Client Sample ID: SW06

Lab Sample ID: 890-2406-6

Date Collected: 06/10/22 00:00

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	27543	06/14/22 16:09	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27652	06/17/22 06:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27449	06/13/22 16:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/14/22 03:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	27630	06/15/22 16:41	CH	XEN MID
Soluble	Analysis	300.0		1			27824	06/18/22 21:36	CH	XEN MID

Client Sample ID: SW07

Lab Sample ID: 890-2406-7

Date Collected: 06/10/22 08:50

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	27543	06/14/22 16:09	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27652	06/17/22 06:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27449	06/13/22 16:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/14/22 04:13	AJ	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: SW07

Lab Sample ID: 890-2406-7

Date Collected: 06/10/22 08:50

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	27630	06/15/22 16:41	CH	XEN MID
Soluble	Analysis	300.0		1			27824	06/18/22 21:44	CH	XEN MID

Client Sample ID: SW08

Lab Sample ID: 890-2406-8

Date Collected: 06/10/22 00:00

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	27543	06/14/22 16:09	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27652	06/17/22 06:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	27449	06/13/22 16:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/14/22 04:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	27630	06/15/22 16:41	CH	XEN MID
Soluble	Analysis	300.0		1			27824	06/18/22 22:08	CH	XEN MID

Client Sample ID: SW09

Lab Sample ID: 890-2406-9

Date Collected: 06/10/22 09:00

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	27543	06/14/22 16:09	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27652	06/17/22 07:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27449	06/13/22 16:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/14/22 04:53	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27630	06/15/22 16:41	CH	XEN MID
Soluble	Analysis	300.0		1			27824	06/18/22 22:15	CH	XEN MID

Client Sample ID: FS01

Lab Sample ID: 890-2406-10

Date Collected: 06/08/22 09:45

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	27543	06/14/22 16:09	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27652	06/17/22 07:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	27449	06/13/22 16:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/14/22 05:14	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27630	06/15/22 16:41	CH	XEN MID
Soluble	Analysis	300.0		10			27824	06/18/22 22:23	CH	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: FS02

Lab Sample ID: 890-2406-11

Date Collected: 06/08/22 09:50

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	27543	06/14/22 16:09	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27652	06/17/22 07:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27449	06/13/22 16:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/14/22 05:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27630	06/15/22 16:41	CH	XEN MID
Soluble	Analysis	300.0		10			27824	06/18/22 22:31	CH	XEN MID

Client Sample ID: FS03

Lab Sample ID: 890-2406-12

Date Collected: 06/08/22 10:00

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	27544	06/14/22 16:18	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/17/22 11:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27449	06/13/22 16:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27351	06/14/22 05:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27630	06/15/22 16:41	CH	XEN MID
Soluble	Analysis	300.0		1			27824	06/18/22 22:39	CH	XEN MID

Client Sample ID: FS04

Lab Sample ID: 890-2406-13

Date Collected: 06/10/22 09:05

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	27544	06/14/22 16:18	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/17/22 12:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27469	06/14/22 08:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27465	06/14/22 12:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27630	06/15/22 16:41	CH	XEN MID
Soluble	Analysis	300.0		20			27824	06/18/22 22:47	CH	XEN MID

Client Sample ID: FS05

Lab Sample ID: 890-2406-14

Date Collected: 06/10/22 09:10

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	27544	06/14/22 16:18	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/17/22 12:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: FS05

Lab Sample ID: 890-2406-14

Date Collected: 06/10/22 09:10

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27469	06/14/22 08:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27465	06/14/22 13:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27630	06/15/22 16:41	CH	XEN MID
Soluble	Analysis	300.0		5			27824	06/18/22 22:55	CH	XEN MID

Client Sample ID: FS06

Lab Sample ID: 890-2406-15

Date Collected: 06/10/22 00:00

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	27544	06/14/22 16:18	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/17/22 12:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27469	06/14/22 08:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27465	06/14/22 14:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27635	06/15/22 16:49	CH	XEN MID
Soluble	Analysis	300.0		1			27843	06/19/22 03:45	CH	XEN MID

Client Sample ID: FS07

Lab Sample ID: 890-2406-16

Date Collected: 06/10/22 09:20

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	27544	06/14/22 16:18	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/17/22 13:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27469	06/14/22 08:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27465	06/14/22 14:36	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	27635	06/15/22 16:49	CH	XEN MID
Soluble	Analysis	300.0		1			27843	06/19/22 03:53	CH	XEN MID

Client Sample ID: FS08

Lab Sample ID: 890-2406-17

Date Collected: 06/10/22 00:00

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	27544	06/14/22 16:18	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/17/22 13:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27469	06/14/22 08:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27465	06/14/22 14:58	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: FS08

Lab Sample ID: 890-2406-17

Date Collected: 06/10/22 00:00

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	27635	06/15/22 16:49	CH	XEN MID
Soluble	Analysis	300.0		1			27843	06/19/22 04:01	CH	XEN MID

Client Sample ID: FS09

Lab Sample ID: 890-2406-18

Date Collected: 06/10/22 05:03

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	27835	06/17/22 16:12	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27863	06/19/22 07:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27469	06/14/22 08:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27465	06/14/22 15:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	27635	06/15/22 16:49	CH	XEN MID
Soluble	Analysis	300.0		5			27843	06/19/22 04:09	CH	XEN MID

Client Sample ID: FS10

Lab Sample ID: 890-2406-19

Date Collected: 06/10/22 09:45

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	27544	06/14/22 16:18	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/17/22 14:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27469	06/14/22 08:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27465	06/14/22 15:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27635	06/15/22 16:49	CH	XEN MID
Soluble	Analysis	300.0		5			27843	06/19/22 04:17	CH	XEN MID

Client Sample ID: FS11

Lab Sample ID: 890-2406-20

Date Collected: 06/10/22 09:50

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	27544	06/14/22 16:18	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/17/22 14:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	27469	06/14/22 08:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27465	06/14/22 16:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	27635	06/15/22 16:49	CH	XEN MID
Soluble	Analysis	300.0		1			27843	06/19/22 04:25	CH	XEN MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: FS12

Lab Sample ID: 890-2406-21

Date Collected: 06/10/22 09:55

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	27544	06/14/22 16:18	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/17/22 14:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27469	06/14/22 08:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27465	06/14/22 16:26	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	27635	06/15/22 16:49	CH	XEN MID
Soluble	Analysis	300.0		1			27843	06/19/22 04:48	CH	XEN MID

Client Sample ID: FS13

Lab Sample ID: 890-2406-22

Date Collected: 06/10/22 10:45

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	27544	06/14/22 16:18	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/17/22 16:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27469	06/14/22 08:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27465	06/14/22 16:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	27635	06/15/22 16:49	CH	XEN MID
Soluble	Analysis	300.0		1			27843	06/19/22 04:56	CH	XEN MID

Client Sample ID: FS14

Lab Sample ID: 890-2406-23

Date Collected: 06/10/22 10:50

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	27544	06/14/22 16:18	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/17/22 17:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	27469	06/14/22 08:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27465	06/14/22 17:40	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	27635	06/15/22 16:49	CH	XEN MID
Soluble	Analysis	300.0		1			27843	06/19/22 05:20	CH	XEN MID

Client Sample ID: FS15

Lab Sample ID: 890-2406-24

Date Collected: 06/10/22 10:00

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	27544	06/14/22 16:18	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/17/22 17:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: FS15

Lab Sample ID: 890-2406-24

Date Collected: 06/10/22 10:00

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	27469	06/14/22 08:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27465	06/14/22 18:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27635	06/15/22 16:49	CH	XEN MID
Soluble	Analysis	300.0		1			27843	06/19/22 05:27	CH	XEN MID

Client Sample ID: FS16

Lab Sample ID: 890-2406-25

Date Collected: 06/10/22 10:05

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	27544	06/14/22 16:18	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/17/22 17:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	27469	06/14/22 08:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27465	06/14/22 18:25	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27635	06/15/22 16:49	CH	XEN MID
Soluble	Analysis	300.0		10			27843	06/19/22 05:35	CH	XEN MID

Client Sample ID: FS17

Lab Sample ID: 890-2406-26

Date Collected: 06/10/22 10:10

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	27544	06/14/22 16:18	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/17/22 18:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27469	06/14/22 08:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27465	06/14/22 18:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27635	06/15/22 16:49	CH	XEN MID
Soluble	Analysis	300.0		5			27843	06/19/22 05:43	CH	XEN MID

Client Sample ID: FS18

Lab Sample ID: 890-2406-27

Date Collected: 06/10/22 10:15

Matrix: Solid

Date Received: 06/10/22 16:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	27544	06/14/22 16:18	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/17/22 18:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27776	06/17/22 09:35	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27481	06/14/22 09:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27469	06/14/22 08:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27465	06/14/22 19:09	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Client Sample ID: FS18
Date Collected: 06/10/22 10:15
Date Received: 06/10/22 16:12

Lab Sample ID: 890-2406-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	27635	06/15/22 16:49	CH	XEN MID
Soluble	Analysis	300.0		20			27843	06/19/22 05:51	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Sample Summary

Client: Ensolum
Project/Site: PLU 223

Job ID: 890-2406-1
SDG: Rural Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2406-1	SW01	Solid	06/08/22 09:30	06/10/22 16:12	0 - 4
890-2406-2	SW02	Solid	06/08/22 12:00	06/10/22 16:12	0 - 4
890-2406-3	SW03	Solid	06/08/22 13:45	06/10/22 16:12	0 - 4
890-2406-4	SW04	Solid	06/08/22 11:30	06/10/22 16:12	0 - 4
890-2406-5	SW05	Solid	06/08/22 14:00	06/10/22 16:12	0 - 4
890-2406-6	SW06	Solid	06/10/22 00:00	06/10/22 16:12	0 - 4
890-2406-7	SW07	Solid	06/10/22 08:50	06/10/22 16:12	0 - 4
890-2406-8	SW08	Solid	06/10/22 00:00	06/10/22 16:12	0 - 4
890-2406-9	SW09	Solid	06/10/22 09:00	06/10/22 16:12	0 - 4
890-2406-10	FS01	Solid	06/08/22 09:45	06/10/22 16:12	4
890-2406-11	FS02	Solid	06/08/22 09:50	06/10/22 16:12	4
890-2406-12	FS03	Solid	06/08/22 10:00	06/10/22 16:12	4
890-2406-13	FS04	Solid	06/10/22 09:05	06/10/22 16:12	4
890-2406-14	FS05	Solid	06/10/22 09:10	06/10/22 16:12	4
890-2406-15	FS06	Solid	06/10/22 00:00	06/10/22 16:12	4
890-2406-16	FS07	Solid	06/10/22 09:20	06/10/22 16:12	4
890-2406-17	FS08	Solid	06/10/22 00:00	06/10/22 16:12	4
890-2406-18	FS09	Solid	06/10/22 05:03	06/10/22 16:12	4
890-2406-19	FS10	Solid	06/10/22 09:45	06/10/22 16:12	4
890-2406-20	FS11	Solid	06/10/22 09:50	06/10/22 16:12	4
890-2406-21	FS12	Solid	06/10/22 09:55	06/10/22 16:12	4
890-2406-22	FS13	Solid	06/10/22 10:45	06/10/22 16:12	4
890-2406-23	FS14	Solid	06/10/22 10:50	06/10/22 16:12	4
890-2406-24	FS15	Solid	06/10/22 10:00	06/10/22 16:12	4
890-2406-25	FS16	Solid	06/10/22 10:05	06/10/22 16:12	4
890-2406-26	FS17	Solid	06/10/22 10:10	06/10/22 16:12	4
890-2406-27	FS18	Solid	06/10/22 10:15	06/10/22 16:12	4

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing
Xenco



Work Order No:

www.xenco.com Page 1 of 3

Project Manager: Ben Belil
Company Name: Gasolun
Address: 1122 N. Karol Parks Hwy
City, State ZIP: Carlsbad NM 88220
Phone: 989-854-0852

Bill to: (if different)
Company Name: Garrett Green
Address: 3104 E. Gretna St
City, State ZIP: Carlsbad NM 88220
Email: bbelil@csdln.com

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Reporting: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: ☐ EDD ☐ ADAPT ☐ Other:

Project Name: 7LU 223
Project Number: 03E158008
Project Location: Rural Eddy County
Sampler's Name: Stuart Hyde
P.O. #: 570007

Turn Around: ☒ Routine ☐ Rush
Due Date: 11-0-2
TAT starts the day received by the lab, if received by 4:30pm

Temp Blank: ☒ Yes ☐ No
Thermometer ID: 11-0-2
Cooler Custody Seals: ☒ Yes ☐ No
Correction Factor: 10-0
Sample Custody Seals: ☒ Yes ☐ No
Temperature Reading: 5.8
Total Containers: 5

ANALYSIS REQUEST

Pres. Code: CI
Parameters: TPH
of Cont: 1

Sample Identification: SW01
Matrix: 5
Date Sampled: 6/8/22
Time Sampled: 0930
Depth: 0-4'
Grab/Comp: Comp

Sample Comments: cc:1137961001

Sample Identification: SW02
Matrix: 1
Date Sampled: 6/8/22
Time Sampled: 12:00
Depth: 0-4'
Grab/Comp: Comp

Sample Comments: fac:

Sample Identification: SW03
Matrix: 1
Date Sampled: 6/8/22
Time Sampled: 13:45
Depth: 0-4'
Grab/Comp: Comp

Sample Comments: 16APP 2201745710

Sample Identification: SW04
Matrix: 1
Date Sampled: 6/8/22
Time Sampled: 11:30
Depth: 0-4'
Grab/Comp: Comp

Sample Comments: 16APP 2201745728

Sample Identification: SW05
Matrix: 1
Date Sampled: 6/8/22
Time Sampled: 14:00
Depth: 0-4'
Grab/Comp: Comp

Sample Comments: 16APP 2201745737

Sample Identification: SW06
Matrix: 1
Date Sampled: 6/10/22
Time Sampled: 0930
Depth: 0-4'
Grab/Comp: Comp

Sample Comments: 16APP 2201745737

Sample Identification: SW07
Matrix: 1
Date Sampled: 6/10/22
Time Sampled: 0930
Depth: 0-4'
Grab/Comp: Comp

Sample Comments: 16APP 2201745737

Sample Identification: SW08
Matrix: 1
Date Sampled: 6/10/22
Time Sampled: 0930
Depth: 0-4'
Grab/Comp: Comp

Sample Comments: 16APP 2201745737

Sample Identification: SW09
Matrix: 1
Date Sampled: 6/10/22
Time Sampled: 0930
Depth: 0-4'
Grab/Comp: Comp

Sample Comments: 16APP 2201745737

Sample Identification: FS01
Matrix: 1
Date Sampled: 6/10/22
Time Sampled: 0945
Depth: 0-4'
Grab/Comp: Comp

Sample Comments: 16APP 2201745737

Preservative Codes: DI Water: H₂O
MeOH: Me
HNO₃: HN
NaOH: Na
H₂SO₄: H₂
H₃PO₄: HP
NaHSO₄: NABIS
Na₂S₂O₃: NaSO₃
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Total 2007/6010 200.8/6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631/245.1/7470/7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature) [Signature] Date/Time 6-10-22 1612
Received by: (Signature) [Signature] Date/Time 6-10-22 1612

Relinquished by: (Signature) [Signature] Date/Time 6-10-22 1612
Received by: (Signature) [Signature] Date/Time 6-10-22 1612

Revised Date: 08/25/2020 Rev. 2000.2

Chain of Custody



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No:

www.xenco.com Page 2 of 3

Project Manager: Ben Garcia
Company Name: Gasolium
Address: 3123 Navarro Park
City, State ZIP: Carlsbad NM 88220
Phone: 989-854-0852

Bill to: (if different)
Company Name: XTO Energy
Address: 3104 E. Graceland St
City, State ZIP: Carlsbad NM 88220
Email: bbe11@xencolab.com

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: ☐ Level I ☐ Level II ☐ Level III ☐ Level IV ☐
Reporting: ☐ Level I ☐ Level II ☐ Level III ☐ Level IV ☐
Deliverables: ☐ EDD ☐ ADAPT ☐ Other:

Project Name: PLU 2023
Project Number: 03E/58008
Project Location: Rural Edge Canyon
Sampler's Name: Struct H/de
PO #:

Turn Around: ☒ Routine ☐ Rush
Due Date:
TAT starts the day received by the lab, if received by 4:30pm

Temp Blank: Yes ☐ No ☐
Thermometer ID:
Cooler Custody Seals: Yes ☐ No ☐
Sample Custody Seals: Yes ☐ No ☐
Total Containers:

ANALYSIS REQUEST										Preservative Codes	
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters			Sample Comments	
							Pres. Code	Turn Around	None: NO		
F502	S	6/8/23	0950	4'	Comp	1			DI Water: H ₂ O		
F503		6/8/23	10:00	4'					Cool: Cool		
F504		6/10/23	0905	4'					HCL: HC		
F505			0910	4'					H ₂ SO ₄ : H ₂		
F506			0945	4'					H ₃ PO ₄ : HP		
F507			0920	4'					NaHSO ₄ : NABIS		
F508			0950	4'					Na ₂ S ₂ O ₃ : NaSO ₃		
F509			0935	4'					Zn Acetate+NaOH: Zn		
F510			0945	4'					NaOH+Ascorbic Acid: SAPC		
F511			0950	4'							

Total 2007 / 6010 2008 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>Ben Garcia</u>	<u>Joe Gulp</u>	<u>6-10-22</u>			

Revised Date 08/25/2020 Rev 2000.2



Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 3 of 3

Project Manager:	Don Belil	Bill to: (if different)	Garrett Green
Company Name:	Xenco	Company Name:	XTO Energy
Address:	2122 Normal Rockwell Hwy	Address:	3104 E. Gichene St
City, State ZIP:	Carlsbad NM 88220	City, State ZIP:	Carlsbad NM 88220
Phone:	989-854-0852	Email:	bbelille@xenco.com

ANALYSIS REQUEST										Preservative Codes	
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code	Turn Around	Preservative Codes	
FS12	S	6/10/22	09:55	4'	Comp	1	IRH		None	DI Water: H ₂ O	
FS13	S		10:45	4'			BTX		Cool: Cool	MeOH: Me	
FS14	S		10:30	4'					HCL: HC	HNO ₃ : HN	
FS15	S		10:00	4'					H ₂ SO ₄ : H ₂	NaOH: Na	
FS16	S		10:05	4'					H ₃ PO ₄ : HP		
FS17	S		10:10	4'					NaHSO ₄ : NABIS		
FS18	S		10:15	4'					Na ₂ S ₂ O ₃ : NaSO ₃		
									Zn Acetate+NaOH: Zn		
									NaOH+Ascorbic Acid: SAPC		
Sample Comments											
CC: 1137961001											
Eae:											
NAPP 2201715910											
NAPP 2204745228											
NAPP 2205343597											

Total 2007 / 6010	2008 / 6020:	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. <i>Can</i>	<i>Chae City</i>	6-10-22	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2406-1

SDG Number: Rural Eddy County

Login Number: 2406

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2406-1
SDG Number: Rural Eddy County

Login Number: 2406

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 06/13/22 06:25 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



APPENDIX E

NMOCD Notifications

Aimee Cole

From: Baker, Adrian <adrian.baker@exxonmobil.com>
Sent: Wednesday, May 4, 2022 1:56 PM
To: ocd.enviro@state.nm.us; Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; Nobui, Jennifer, EMNRD; Chad.Hensley@state.nm.us
Cc: DelawareSpills /SM; Aimee Cole; Green, Garrett J
Subject: XTO - Sampling Notification (week of 5/9/22 - 5/13/22)

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following sites the week of May 9, 2022.

Wednesday

- PLU 223 / nAPP2204945328, nAPP2205343597, NAPP2201745910
- Remuda Basin #1 / NAB1836137253

Thursday

- PLU 223 / nAPP2204945328, nAPP2205343597, NAPP2201745910
- JRU Legg Battery / nAPP2204943884

Friday

- PLU 223 / nAPP2204945328, nAPP2205343597, NAPP2201745910

Thank you,

Adrian Baker

Environmental Coordinator
Permian Business Unit

XTO Energy Inc.
6401 N. Holiday Hill Dr.
Midland, Tx 79707
Mobile:(432)-236-3808
adrian.baker@exxonmobil.com

Aimee Cole

From: Baker, Adrian <adrian.baker@exxonmobil.com>
Sent: Wednesday, May 25, 2022 2:17 PM
To: ocd.enviro@state.nm.us; Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; Nobui, Jennifer, EMNRD
Cc: DelawareSpills /SM; Green, Garrett J; Aimee Cole
Subject: XTO - Sampling Notification (week of 5/30/22 - 6/3/22)

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following sites the week of May 30, 2022.

Tuesday, May 31st

- PLU 223 / nAPP2204945328, nAPP2205343597, NAPP2201745910
- BEU 5E Han Solo 114H / nAPP2209041753

Wednesday, June 1st

- PLU 223 / nAPP2204945328, nAPP2205343597, NAPP2201745910
- BEU 5E Han Solo 114H / nAPP2209041753

Thursday, June 2nd

- PLU 223 / nAPP2204945328, nAPP2205343597, NAPP2201745910
- Row 4 Muy Wayno Line / nAPP2209039217
- Pierce Canyon 3 SWD/ nAPP2209446613

Friday, June 3rd

- PLU 223 / nAPP2204945328, nAPP2205343597, NAPP2201745910
- Row 4 Muy Wayno Line / nAPP2209039217

Thank you,

Adrian Baker

Environmental Coordinator
Permian Business Unit

XTO Energy Inc.
6401 N. Holiday Hill Dr.
Midland, Tx 79707
Mobile:(432)-236-3808
adrian.baker@exxonmobil.com

Aimee Cole

From: Baker, Adrian <adrian.baker@exxonmobil.com>
Sent: Monday, June 6, 2022 12:32 PM
To: ocd.enviro@state.nm.us; Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; DelawareSpills /SM;
Aimee Cole
Subject: XTO - Sampling Notification (week of 6/6/22 - 6/10/22)

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following site on Wednesday, June 8, 2022.

- PLU 223 / nAPP2204945328, nAPP2205343597, NAPP2201745910

Thank you

Adrian Baker
Environmental Coordinator
Permian Business Unit

XTO Energy Inc.
6401 N. Holiday Hill Dr.
Midland, Tx 79707
Mobile:(432)-236-3808
adrian.baker@exxonmobil.com

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 122337

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 122337
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	8/22/2022