Received by OCD- 10/14/2019 6:20:22 PM Received by OCD: 12/23/2020 8:42:24 AM

> 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	NRM1931858285		
District RP	2RP-5697		
Facility ID	fAB1921929758		
Application ID	pRM1931858373		

# **Release Notification**

#### 1RLXK-191014-C-1410

#### **Responsible Party**

Responsible Party XTO Energy	OGRID 5380
Contact Name Kyle Littrell	Contact Telephone 432-221-7331
Contact email Kyle_Littrell@xtoenergy.com	Incident # (assigned by OCD)
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	

#### **Location of Release Source**

Latitude 32.182176

Longitude -103.880022 (NAD 83 in decimal degrees to 5 decimal places)

Site Name PLU Pierce Canyon 28 Fed	Site Type Tank Battery
Date Release Discovered 10/07/2019	API# (if applicable) 30-015-36830 (Poker Lake Unit CVX JV PC 3H)

Unit LetterSectionP28		Township Range		County	
		248	30E	EDDY	

Surface Owner: State Federal Tribal Private (Name:

#### Nature and Volume of Release

Crude Oil	Volume Released (bbls) 0.0	Volume Recovered (bbls) 0.0
Produced Water	Volume Released (bbls) 52.54	Volume Recovered (bbls) 52.0
	Is the concentration of dissolved chloride 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: Produced water flowline leaked due to internal corrosion. Vacuum truck recovered 52 bbls of produced water from containment and 0.54 bbls impacted pad surface. Additional third party resources have been retained to assist in the remediation.

#### Received by OCD: 12/23/2020 8:42:24 AM

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Form C-141	State of New Mexico
Page 2	Oil Conservation Division

Incident ID	NRM1931858285	
District RP	2RP-5697	
Facility ID	fAB1921929758	
Application ID	pRM1931858373	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	An unauthorized release of fluid over 25 barrels.
Yes 🗌 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

YES, by Amy Ruth to Mike Bratcher, Rob Hamlet, Victoria Venegas, Jim Griswold, and blm nm cfo spill@blm.gov on 10/7/19 at 3:31 PM by email.

#### **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 not been undertaken, explain why:

N/A

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: Kyle Littrell	Title: <u>SH&amp;E Supervisor</u>
Signature (Setul)	Date:10/14/2019
email:Kyle_Littrell@xtoenergy.com	Telephone:
8	
OCD Only	
Received by: Ramona Marcus	Date: 11/14/2019

Oil Conservation Division

	Page 3 of 344	4
Incident ID	NRM1931858285	
District RP	2RP-5697	
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>&gt;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 <b>not</b> 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
- $\checkmark$  Data table of soil contaminant concentration data
- $\overline{\mathbf{\nabla}}$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Z 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.

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Received by OCD: 12/2	23/2020 8:42:24 AM State of New Mexico			Page 4 of 344
			Incident ID	NRM1931858285
Page 4	Oil Conservation Divis	ion	District RP	2RP-5697
			Facility ID	
			Application ID	
regulations all operators public health or the envi failed to adequately invo addition, OCD acceptan and/or regulations. Printed Name: Kyle Signature:	information given above is true and complete t are required to report and/or file certain releas ironment. The acceptance of a C-141 report by estigate and remediate contamination that pose ice of a C-141 report does not relieve the operat Littrell	e notifications and perform c the OCD does not relieve the a threat to groundwater, surfa- tor of responsibility for comp 	orrective actions for rele e operator of liability sh ace water, human health liance with any other fe ervisor	eases which may endanger nould their operations have n or the environment. In
OCD Only				
Received by:		Date:		

Oil Conservation Division

Incident ID	NRM1931858285
District RP	2RP-5697
Facility ID	
Application ID	

# **Remediation Plan**

<u>Remediation Plan Checklist</u>: *Each of the following items must be included in the plan.* 

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

 $\blacksquare$  Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

<u>Deferral Requests Only</u> : Each of the following items must be con	firmea as part of any request for aeferral of remealation.
Contamination must be in areas immediately under or around prodeconstruction.	oduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.
I hereby certify that the information given above is true and complet rules and regulations all operators are required to report and/or file c which may endanger public health or the environment. The acceptan liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local la	ertain release notifications and perform corrective actions for releases ince of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, inceptance of a C-141 report does not relieve the operator of
Printed Name: Kyle Littrell	Title: SH&E Supervisor
Signature:	Date:
email: Kyle_Littrell@xtoenergy.com	Telephone: 432-221-7331
OCD Only	
Received by:	Date:
Approved Approved with Attached Conditions of A	Approval Denied Deferral Approved
Signature:	Date:

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

2WV7H-191126-C-1410

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	NCE2002742193
District RP	
Facility ID	
Application ID	

## **Release Notification**

#### **Responsible Party**

Responsible Party XTO Energy	OGRID 5380
Contact Name Kyle Littrell	Contact Telephone 432-221-7331
Contact email Kyle_Littrell@xtoenergy.com	Incident # (assigned by OCD)
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	

#### Location of Release Source

Latitude <u>32.182170</u>

*Longitude <u>-103.880355</u>* (NAD 83 in decimal degrees to 5 decimal places)

Site Name PLU Pierce Canyon 28 DTB	Site Type Well Location
Date Release Discovered 11/13/2019	AP1# (if applicable) 30-015-36830 (PLU CVX JV PC #003H)

Unit Letter	Section	Township	Range	County	
Р	28	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) 2.41	Volume Recovered (bbls) 2.0
Produced Water	Volume Released (bbls) 9.62	Volume Recovered (bbls) 8.0
	Is the concentration of dissolved chloride 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 circulating line from the oil tank to the gun barrel tank had a leak due to corrosion. 12.03 bbls were released and 10.0 bbls were recovered by vacuum truck. Additional third party resources have been retained to assist in the remediation.

Rece

orm C-141	State of New Mexico		105000740400
ige 2	Oil Conservation Division	Incident ID	NCE2002742193
.50 2		District RP Facility ID	
		Application ID	
		Application ID	
Was this a major	If YES, for what reason(s) does the responsible party of	consider this a major release?	
release as defined by	,	jj	
19.15.29.7(A) NMAC?	N/A		
🗌 Yes 🛛 No			
If YES, was immediate r	notice given to the OCD? By whom? To whom? When	and by what means (phone, a	email, etc)?
		•	. ,
N/A			
	Initial Response		
The responsible	party must undertake the following actions immediately unless they co	ould create a safety hazard that wou	ld result in injury
The source of the rel	ease has been stopped.		
M The immediate 1-		nent.	
	as been secured to protect human health and the environm		
	ave been contained via the use of berms or dikes, absorb	ent pads, or other containment	nt devices.
Released materials h			nt devices.
<ul> <li>Released materials h</li> <li>All free liquids and r</li> </ul>	ave been contained via the use of berms or dikes, absorb ecoverable materials have been removed and managed a		nt devices.
<ul> <li>Released materials h</li> <li>All free liquids and r</li> </ul>	ave been contained via the use of berms or dikes, absorb		nt devices.

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.

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Printed Name: Kyle Littrell	Title: <u>SH&amp;E Supervisor</u>
Signature: Steered	Date:11/26/2019
email:Kyle_Littrell@xtoenergy.com	Telephone:
OCD Only	
Received by:Cristina Eads	Date: 01/27/2020

Oil Conservation Division

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Incident ID	NCE2002742193	
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>&gt;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
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Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
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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 <b>not</b> 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
- $\nabla$
- Data table of soil contaminant concentration data  $\mathbf{N}$
- $\square$  Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- $\nabla$ Boring or excavation logs
- Photographs including date and GIS information  $\square$
- Topographic/Aerial maps
- $\mathbf{N}$ 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.

**Released to Imaging: 4/8/2021 3:32:01 PM** 

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			Incident ID	NCE2002742193
Page 4 Oil Conservation Di		ISION	District RP	
			Facility ID	
			Application ID	
regulations all operators a public health or the envir failed to adequately inves addition, OCD acceptance and/or regulations. Printed Name: Kyle L		ase notifications and perform c by the OCD does not relieve th se a threat to groundwater, surf	corrective actions for rel e operator of liability sl ace water, human health bliance with any other for pervisor	eases which may endanger nould their operations have n or the environment. In
OCD Only Received by: Cristi	na Eads	Date: <u>12/</u>	23/2021	

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Incident ID	NCE2002742193
District RP	
Facility ID	
Application ID	

# **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.

 $\mathbf{\underline{\square}}$  Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

 $\blacksquare$  Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be con	nfirmed as part of any request for deferral of remediation		
Deterrar Requests Only. Each of the following terms must be con	ijirmed as part of any request for deferrat of remediation.		
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.			
Extents of contamination must be fully delineated.			
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.		
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of		
Printed Name: Kyle Littrell	Title: SH&E Supervisor		
Signature:	Date:		
email: Kyle_Littrell@xtoenergy.com	Telephone: 432-221-7331		
OCD Only			
Received by: Cristina Eads	Date: 12/23/2021		
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved		
Signature: Justu OS	Date: 04/07/2021		

Received by OCD: 10/14/2019 6:20:22 PM Received by OCD: 12/23/2020 8:42:24 AM

> 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

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Incident ID	NRM1931858285
District RP	2RP-5697
Facility ID	fAB1921929758
Application ID	pRM1931858373

# **Release Notification**

#### 1RLXK-191014-C-1410

#### **Responsible Party**

Responsible Party XTO Energy	OGRID 5380
Contact Name Kyle Littrell	Contact Telephone 432-221-7331
Contact email Kyle_Littrell@xtoenergy.com	Incident # (assigned by OCD)
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Latitude 32.182176

Longitude -103.880022 (NAD 83 in decimal degrees to 5 decimal places)

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Date Release Discovered 10/07/2019	API# (if applicable) 30-015-36830 (Poker Lake Unit CVX JV PC 3H)	

Unit Letter	Section	Township	Range	County	
Р	28	248	30E	EDDY	

Surface Owner: State Federal Tribal Private (Name:

#### Nature and Volume of Release

Crude Oil	Volume Released (bbls) 0.0	Volume Recovered (bbls) 0.0
Produced Water	Volume Released (bbls) 52.54	Volume Recovered (bbls) 52.0
	Is the concentration of dissolved chloride 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: Produced water flowline leaked due to internal corrosion. Vacuum truck recovered 52 bbls of produced water from containment and 0.54 bbls impacted pad surface. Additional third party resources have been retained to assist in the remediation.

#### Received by OCD: 12/23/2020 8:42:24 AM

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State of New IV	ACXICO
Oil Conservation	Division

Incident ID	NRM1931858285
District RP	2RP-5697
Facility ID	fAB1921929758
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Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?	
19.15.29.7(A) NMAC?	An unauthorized release of fluid over 25 barrels.	
🛛 Yes 🗌 No		
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?		
	given to the OOD. By whom? To whom? When and by what means (phone, enang, etc)?	

YES, by Amy Ruth to Mike Bratcher, Rob Hamlet, Victoria Venegas, Jim Griswold, and <u>blm\_nm\_cfo\_spill@blm.gov</u> on 10/7/19 at 3:31 PM by email.

#### **Initial Response**

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 $\square$  The source of the release has been stopped.

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Oil Conservation Division

Incident ID

District RP

Facility ID Application ID

# Site Assessment/Characterization

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

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   Field data
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Received by OCD: 12/23/2	2020 8:42:24 AM State of New Mexico			<b>Page 14 of 344</b>
			Incident ID	NRM1931858285
Page 4	Oil Conservation Divisior	1	District RP	2RP-5697
			Facility ID	
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regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name: Kyle Litt Signature:	by the provide the provided the provided the provided to report and/or file certain release norment. The acceptance of a C-141 report by the gate and remediate contamination that pose a the fa C-141 report does not relieve the operator of the trell	otifications and perform co e OCD does not relieve the areat to groundwater, surfa of responsibility for comp 	prrective actions for rele e operator of liability sh uce water, human health liance with any other fe ervisor	eases which may endanger ould their operations have or the environment. In
OCD Only				
Received by:		Date:		

Oil Conservation Division

Incident ID	NRM1931858285
District RP	2RP-5697
Facility ID	
Application ID	

# **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be con	nfirmed as part of any request for deferral of remediation.	
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.		
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.	
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: Kyle Littrell	Title: SH&E Supervisor	
Signature:	Date:	
email: Kyle_Littrell@xtoenergy.com	Telephone: 432-221-7331	
OCD Only		
Received by:	Date:	
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved	
Signature:	Date:	

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

2WV7H-191126-C-1410

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	NCE2002742193
District RP	
Facility ID	
Application ID	

### **Release Notification**

#### **Responsible Party**

Responsible Party XTO Energy	OGRID 5380
Contact Name Kyle Littrell	Contact Telephone 432-221-7331
Contact email Kyle_Littrell@xtoenergy.com	Incident # (assigned by OCD)
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	

#### Location of Release Source

Latitude <u>32.182170</u>

NAD 83 in decimal degrees to 5 decimal places)

Site Name PLU Pierce Canyon 28 DTB	Site Type Well Location
Date Release Discovered 11/13/2019	AP1# (if applicable) 30-015-36830 (PLU CVX JV PC #003H)

Unit Letter	Section	Township	Range	County	
Р	28	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) 2.41	Volume Recovered (bbls) 2.0
Produced Water	Volume Released (bbls) 9.62	Volume Recovered (bbls) 8.0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbis)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: A circulating line from the oil tank to the gun barrel tank had a leak due to corrosion. 12.03 bbls were released and 10.0 bbls were recovered by vacuum truck. Additional third party resources have been retained to assist in the remediation.

Received/by OCD:112/23/2020 8:42:24 MM

Form C-141	State of New Mexico		1			
Page 2	Oil Conservation Division	Incident ID	NCE2002742193			
rage 2	On Conservation Division	District RP				
		Facility ID				
		Application ID				
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party N/A	consider this a major release?	?			
Yes No						
N/A	otice given to the OCD? By whom? To whom? Whe	in and by what means (phone, t				
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 not been undertaken, explain why:

N/A

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: Kyle Littrell	Title: <u>SH&amp;E Supervisor</u>
Signature: Steenel	Date:11/26/2019
email:Kyle_Littrell@xtoenergy.com	Telephone:
OCD Only	
Received by:Cristina Eads	Date: 01/27/2020

Oil Conservation Division

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Incident ID	NCE2002742193	
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?	>100 (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 <b>not</b> 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
- $\checkmark$  Data table of soil contaminant concentration data
- $\overline{\mathbf{\nabla}}$  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.

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Received by OCD: 12/23/2020 8:42:24 AM Form C-141 State of New Mexic			Page 19 of 344	
			Incident ID	NCE2002742193
Page 4	Oil Conservation Divisio	n	District RP	
			Facility ID	
			Application ID	
regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name: Kyle Lit Signature:	ormation given above is true and complete to e required to report and/or file certain release ument. The acceptance of a C-141 report by ti gate and remediate contamination that pose a of a C-141 report does not relieve the operato trell	notifications and perform c he OCD does not relieve th threat to groundwater, surfa r of responsibility for comp 	orrective actions for rele e operator of liability sh ace water, human health liance with any other fe ervisor	eases which may endanger ould their operations have a or the environment. In
OCD Only				
Received by:		Date:		

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Oil Conservation Division

Incident ID	NCE2002742193
District RP	
Facility ID	
Application ID	

# **Remediation Plan**

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

 $\blacksquare$  Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

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Extents of contamination must be fully delineated.					
Contamination does not cause an imminent risk to human health, the environment, or groundwater.					
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: Kyle Littrell	Title: SH&E Supervisor				
Signature:	Date:				
email: Kyle_Littrell@xtoenergy.com	Telephone: 432-221-7331				
OCD Only					
Received by:	Date:				
Approved Approved with Attached Conditions of A	Approval Denied Deferral Approved				
Signature:	Date:				

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**\\S**])

WSP USA

3300 North "A" Street Building 1, Unit 222 Midland, Texas 79705 432.704.5178

December 21, 2020

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

Re: Remediation Work Plan Poker Lake Unit Pierce Canyon 28 Incident Numbers/Remediation Permit Number: NRM1931858285 (2RP-5697) and NCE2002742193 Eddy County, New Mexico

To Whom it May Concern:

WSP USA Inc. (WSP) (formerly LT Environmental, Inc.), on behalf of XTO Energy, Inc. (XTO), presents the following Remediation Work Plan detailing site assessment, remediation, and soil sampling activities completed to date and proposing additional site assessment and soil sampling activities at the Poker Lake Unit Pierce Canyon 28 (Site) in Unit P, Section 28, Township 24 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the remediation and soil sampling activities was to address impacts to soil resulting from two releases of crude oil and/or produced water at the Site, by safely excavating impacted soil to the extent possible based on Site conditions and allowed by XTO safety policies. Additional soil sampling activities are being proposed to delineate the extent of the remaining residual impacted soil. Based on field observations, field screening activities, and laboratory analytical results from soil sampling activities, XTO is submitting this Remediation Work Plan, describing remediation that has occurred and proposing additional delineation activities.

#### **RELEASE BACKGROUND**

#### Incident Number NRM1931858285 (2RP-5697)

On October 7, 2019, a produced water flowline developed a leak, resulting in the release of approximately 52.54 barrels (bbls) of produced water into a lined containment and onto the caliche well pad. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids, of which approximately 52.0 bbls of produced water were recovered from within the lined containment. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on October 14, 2019 and was subsequently assigned Incident Number NRM1931858285 and Remediation Permit (RP) Number 2RP-5697.

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#### Incident Number NCE2002742193

On November 13, 2019, a circulating line from an oil tank to the gun barrel tank developed a leak due to corrosion, resulting in the release of 2.41 bbls of crude oil and 9.62 bbls of produced water onto the caliche well pad around the lined tank battery containment. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids, of which approximately 2.0 bbls of crude oil and 8.0 bbls of produced water were recovered. XTO reported the release to the NMOCD on a Release Notification and Form C-141 on November 26, 2019 and was subsequently assigned Incident Number NCE2002742193.

XTO requested an extension to combine investigation and remediation efforts for the separate releases. On September 15, 2020, NMOCD approved a final extension deadline of December 29, 2020 for Incident Number NRM1931858285 (2RP-5697) and Incident Number NCE2002742193. The purpose of the final extension request was to allow additional time to coordinate drilling activities to assist with depth to water determination at the Site.

#### SITE CHARACTERIZATION

WSP characterized the Site 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). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest permitted water well with depth to water data is New Mexico Office of the State Engineer (NMOSE) well C-04474-POD1, located approximately 0.17 miles southeast of the Site. NMOSE well C-04474-POD1 was drilled by XTO on September 10, 2020 during a depth to water study of the area. Using a truck mounted drill rig equipped with hollow stem auger, the soil boring was advanced to a total depth of 110 feet bgs. No water was observed within the soil boring after 72 hours and the boring was plugged and abandoned. The NMOSE Well Record and Log of the well is included as Attachment 1.

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, and church. 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 located in a medium-potential karst area. Potential receptors identified during Site Characterization are displayed in Figure 1.

#### WATERCOURSE SURVEY

On July 27, 2020, WSP personnel conducted a field investigation to confirm the presence of a potential significant watercourse identified in a desktop survey using the United States Fish and Wildlife Service (USFWS) online database, National Wetland Inventory (Wetland Mapper). Wetland Mapper is often used for initial evaluation of significant watercourses in response to

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reportable releases as required in the site characterization defined in 19.15.29.11.A(4) of the New Mexico Administrative Code (NMAC).

Field verification is sometimes necessary to measure the distance of the feature from the release extent and to confirm the feature modeled by the USFWS complies with the definition of a



significant watercourse per Subsection P of 19.15.17.7 NMAC. Specifically, the definition in Subsection P of 19.15.17.7 NMAC requires a defined bed and bank and either named or identified by a dashed blue line on USGS 7.5-minute quadrangle map or the next lower

order tributary with a defined bed and bank of such watercourse. Prior to the

field investigation, WSP determined the surface feature did not present the preliminary requirements cognate to the anterior definition of a significant watercourse such that it was not identified by a dashed blue line on the current USGS 7.5-minute quadrangle map and did



SURVEY PHOTO 1: FAINT EROSIONAL FEATURE.

not reveal aerial properties of a next lower tributary that connect to a significant watercourse.

No bed or bank were identified during the visual field survey of the watercourse. Only faint erosional paths or swales and ruts aligned with the topographic gradient were visible (Survey Photo 1 and survey Photo 2). The drainage did not appear to connect to a larger watercourse. WSP was unable to identify any feature with a bed and bank

within 300 feet of the release footprint. The features did not have a bed, there was no evidence of fluvial deposition inside



DIAGRAM 2: VIEW OF THE SITE LOCATION (BLUE PIN) UTILIZING THE CURRENT USGS 7.5 MINUTE QUADRANGLE HYDROLOGY BASE LAYER MAP. REFERENCE



SURVEY PHOTO 2: EROSIONAL RUT.

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the erosional features, and they did not connect to other watercourses, instead splaying out onto the desert floor. More detailed results and photographic evidence are provided in Figure 2. The closest feature with a defined bed and bank appears to be approximately 1,000 feet to the northwest (shown on the USGS 7.5-minute quadrangle map). Based on the observations presented, there are no significant watercourses located within 300 feet of the release extent per the definition of a significant watercourse in Subsection P of 19.15.17.7 NMAC. Instead, an erosional channel has formed by drainage of water during storm events. The faint conduit is intercepted by an access road and ultimately splays out along the desert floor without connecting to any other features. The survey tract associated with the conduit and photos is presented on Figure 2.

#### **CLOSURE CRITERIA**

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

#### **INITIAL SITE ASSESSMENT ACTIVITIES**

#### Incident Number NRM1931858285 (2RP-5697)

On October 22, 2019, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP reviewed and verified the Form C-141 incident description (release source and release location) with visual soil impacts and confirmed that the release impacted the lined processing equipment containment and surrounding caliche well pad. A subsequent visual inspection of liner integrity determined the liner was compromised.

WSP personnel collected preliminary assessment soil samples at three locations (SS01 through SS03) within the release area on the caliche pad at a depth of approximately 0.5 feet bgs to assess the lateral extent of impacted soil outside of the lined containment. Preliminary soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips, respectively. The

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release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 3A.

The preliminary 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 Xenco Laboratories (Xenco) 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 indicated that TPH-GRO/TPH-DRO and TPH concentrations exceeded the Closure Criteria in preliminary soil samples SSO1 and SSO2. Laboratory analytical results indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH and chloride concentrations were compliant with the Closure Criteria in preliminary soil sample SSO3. The laboratory analytical results are summarized on the attached Table 1.

On December 5, 2019, WSP advanced one delineation borehole (BH01) utilizing a hand auger to a maximum depth of 4 feet bgs before reaching refusal. Soil samples were collected at 1-foot intervals from the borehole. The delineation soil samples were collected, handled, and analyzed as previously described. Soil from the borehole was field screened using a calibrated PID and Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips. Field screening results and observations for the borehole were recorded on a lithologic/soil sampling log which is included in Attachment 2. The borehole soil sample location is presented on Figure 3A.

Laboratory analytical results indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH and chloride concentrations were below the Closure Criteria in delineation soil samples BH01/BH01A/BH01B/BH01C, collected from borehole BH01. The laboratory analytical results are summarized on the attached Table 1.

#### Incident Number NCE2002742193

On November 18, 2019, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP reviewed and verified the Form C-141 incident description (release source and release location) with visual soil impacts and confirmed that the release impacted the caliche well pad surrounding the lined tank battery containment. WSP personnel collected preliminary assessment soil samples at six locations (SS01 through SS06) within and around the release extent at a depth of approximately 0.5 feet bgs to assess the lateral extent of soil impacts. Preliminary soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated PID and Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test

District II Page 6

strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 4A. The preliminary soil samples were collected, handled, and analyzed as previously described.

Laboratory analytical results indicated that benzene and/or BTEX, TPH-GRO/TPH-DRO and TPH concentrations exceeded the Closure Criteria in preliminary soil samples SS02 through SS05. Laboratory analytical results indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH and chloride concentrations were compliant with the Closure Criteria in preliminary soil samples SS01 and SS06. The laboratory analytical results are summarized on the attached Table 2.

Based on visual staining in the release area, field screening activities and laboratory analytical results for the preliminary soil samples, delineation and excavation activities were warranted.

#### **REMEDIATION ACTIVITIES**

#### Incident Number NRM1931858285 (2RP-5697)

On December 6, 2019, WSP oversaw excavation of impacted soil as indicated by visual observations, field screening activities and laboratory analytical results for the preliminary soil samples. Excavation activities were performed utilizing heavy equipment to address the impacted area west of the lined containment associated with soil samples SS01 and SS02. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a calibrated PID and Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips.

Upon completion of excavation activities, WSP collected 5-point composite soil samples on a 200 square foot frequency 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. One composite floor soil sample (FS01) was collected from the excavation from a depth of 5 feet bgs. Four composite sidewall samples (SW01 through SW04) were collected from the excavation from depths ranging from the ground surface to 5 feet bgs. The excavation soil samples were handled and analyzed as previously described. Photographic documentation was conducted during excavation activities and a photographic log is included in Attachment 3. The excavation extent and excavation soil sample locations are presented on Figure 3B.

Laboratory analytical results indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH and chloride concentrations were compliant with the Closure Criteria in excavation soil samples FS01 and SW01 through SW04. The laboratory analytical results are summarized on the attached Table 1.

The excavation encompassed an area of approximately 200 square feet west of the lined containment. A total of approximately 37 cubic yards of impacted soil were removed during

District II Page 7

excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility located in Hobbs, New Mexico under XTO approved manifests.

#### Incident Number NCE2002742193

During December 2019, WSP oversaw initial excavation of impacted soil as indicated by visual observations, field screening activities, and laboratory analytical results for the preliminary soil samples. Excavation activities were performed utilizing heavy equipment and hydrovac to address the impacted areas associated with preliminary soil samples SS02, SS03 and SS05. Preliminary soil sample SS04 was unable to be removed due to excavation restrictions related to equipment stabilization and subsurface line congestion. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a calibrated PID and Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips. Due to the proximity of active process equipment and surface utilities, the excavation area was separated into two areas: an eastern hydro-excavation (as a means of non-destructive soil removal in areas with active production equipment) and a southern excavation unearthed by mechanical means and hydro-excavation. XTO safety policy prohibited earth-moving activities within two feet of active process equipment and utilities. The policy also requires that soil underlying pipelines be left in place to support pipeline stability. Due to the presence of active process equipment, aboveground and subsurface pipelines, safety restrictions and site configuration prevented the ability to remove all impacted soil (SS04).

On December 10, 2019, WSP collected 5-point composite soil samples on a 200 square foot frequency from the floor of the excavations. A total of four composite floor soil samples (FS01 through FS03 and FS05) were collected within the excavation extent at a depth of approximately 1 foot bgs. The composite floor soil samples in the excavations included soil from any sidewalls. The excavation soil samples were collected, handled, and analyzed as previously described. Photographic documentation was conducted during excavation activities and a photographic log is included in Attachment 3. The excavation extent and excavation soil sample locations are presented on Figure 4B.

Laboratory analytical results indicated that TPH-GRO/TPH-DRO and TPH concentrations exceeded the Closure Criteria in soil samples FS01 through FS03 and FS05; BTEX concentrations exceeded the Closure Criteria in soil samples FS01, FS03 and FS05. The laboratory analytical results are summarized on the attached Table 2.

Based on the laboratory analytical results and limited ability for further excavation in the east and south areas of the release, a combination of additional excavation and alternative remedial efforts were performed to address the residual hydrocarbon impacts. Following the initial sampling event that occurred on December 10, 2019, a 3 percent (%) MicroBlaze<sup>®</sup> Emergency Liquid Spill Control and freshwater solution (MicroBlaze<sup>®</sup>) mixture was applied thoroughly into

District II Page 8

the excavations. Re-sampling events of the treated areas took place on January 27, 2020. WSP personnel recollected four composite soil samples (FS01 through FS03 and FS05) throughout the release extent. The excavation soil samples were collected, handled, and analyzed as previously described. Laboratory analytical results associated with the January 27, 2020 resampling event indicated enhanced biodegradation was actively occurring as demonstrated by decreasing benzene, BTEX, TPH-GRO, TPH-DRO and TPH concentrations in recollected soil samples FS01, FS02 and FS05.

On March 30, 2020 and March 31, 2020, WSP oversaw excavation of impacted soil in the areas associated with soil samples FS01 through FS04. No further excavation was advanced in the area associated with soil sample FS05, surrounding an electric control panel. The consolidated lithology inhibited advancement with a hydrovac, and the congestion of electric lines prevented access with mechanical equipment. Soil removal was performed utilizing heavy equipment where accessible and the excavation was deepened to depths as much as 6 feet bgs. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a calibrated PID and Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips.

WSP collected 5-point composite soil samples on a 200 square foot frequency from the sidewalls and floor of the expanded excavation. A total of four composite floor soil samples (FS01A through FS04A) were collected within the excavation at depths ranging from 1 foot to 6 feet bgs. A total of 3 composite sidewall samples (SW01 through SW03) were collected from the excavation at depths ranging from the ground surface to 2 feet or 6 feet bgs. The excavation soil samples were collected, handled, and analyzed as previously described. The current excavation extent and excavation soil sample locations are presented on Figure 4B.

Laboratory analytical results indicated that TPH-GRO/TPH-DRO concentrations exceeded the Closure Criteria in excavation floor samples FS01A and FS02A. Laboratory analytical results indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH and chloride concentrations were compliant with the Closure Criteria in excavation soil samples FS03A, FS04A and SW01 through SW03. The laboratory analytical results are summarized on the attached Table 2.

#### **DELINATION SOIL SAMPLING ACTIVITIES**

#### Incident Number NRM1931858285 (2RP-5697)

On September 1, 2020, WSP utilized a Shaw Tool, Ltd Portable Core Drill to install two corehole delineation points (CH01 and CH02) to determine the vertical extent of impact within the documented breached liner area and one delineation soil sample outside the lined containment to confirm vertical and lateral delineation to the north of the release. The coreholes were advanced to depths ranging from 7 feet to 7.5 feet bgs. Due to the location of the release, a Hot Work Permit was necessary to conduct investigative motor or electric powered drilling methods

District II Page 9

within 35 feet of any hydrocarbon sources. In coordination with XTO, an XTO safety representative was retained to conduct air monitoring as part of the permit process for investigative core drilling activities. Corehole soil samples were field screened, at minimum, every 1-foot interval for volatile aromatic hydrocarbons and chloride utilizing a calibrated PID and Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips. Soil samples from CH01 and CH02 were collected from the soil interval with the highest field screening result (1 foot bgs) and the terminus of the corehole (7 feet to 7.5 feet bgs). Field screening results and observations for each delineation soil sample were recorded on lithologic/soil sampling logs which are included in Attachment 2. The corehole locations are presented on Figure 3C. Photographic documentation from continued cored drilling activities is included in Attachment 3. The breached area within the lined containment was bonded and repaired by XTO in an effort to restore the integrity of the liner.

Laboratory analytical results indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria in all corehole delineation soil samples. The laboratory analytical results are summarized on the attached Table 1. The complete laboratory analytical reports for Incident Number NRM1931858285 (2RP-5697) are included as Attachment 4A.

#### Incident Number NCE2002742193

Between March 30, 2020 and July 13, 2020, WSP conducted delineation soil sampling activities to define the lateral and vertical extent of impacted soil remaining in place. Three delineation boreholes (BH01 through BH03) were advanced utilizing a hand auger to maximum depths ranging from 3 feet to 6 feet bgs before reaching refusal. Five delineation potholes (PH01 through PH05) were advanced to depths ranging from 3 feet to 6 feet bgs in areas accessible with heavy equipment. Soil samples were collected at 1-foot intervals from each borehole/pothole. PH02 and BH03 were advanced within the release extent to identify vertical extent. The remaining potholes and boreholes were placed around the release to define lateral extent. Soil from the boreholes/potholes was field screened using a calibrated PID and Hach® chloride QuanTab® test strips. The soil samples were collected, handled, and analyzed as previously described. Field screening results and observations for the boreholes/potholes were recorded on a lithologic/soil sampling logs which are included in Attachment 2. The delineation soil sample locations are presented on Figure 4C.

Laboratory analytical results indicated that TPH-GRO/TPH-DRO concentrations exceeded the Closure Criteria in delineation soil sample PH02B, collected at a depth of 5 feet bgs. Since delineation activities occurred simultaneously with excavation activities, the area associated with sample PH02B was excavated to the address impacts. Laboratory analytical results indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the

District II Page 10

Closure Criteria in all other delineation soil samples collected from boreholes BH01 through BH04 and potholes PH01 through PH05. The laboratory analytical results are summarized on the attached Table 2. The complete laboratory analytical reports for Incident Number NCE2002742193 are included as Attachment 4B.

#### **REMEDIATION WORK PLAN**

#### Incident Number NRM1931858285 (2RP-5697)

To date, approximately 37 cubic yards of impacted were removed from the release area and transported to the R360 Facility in Hobbs, New Mexico. Laboratory analytical results for the excavation soil samples and all delineation soil samples collected from coreholes CH01 and CH02 and borehole BH01 that indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. No further remediation is required in these areas of the release.

An additional release area south of the lined containment requires investigation utilizing equipment with reduced disturbance capabilities because of surrounding aboveground equipment and pipelines. Due to limited access of the southern release area, excavation methods utilizing heavy equipment present potential hazards to onsite personnel. Non-mechanical means (i.e. shoveling and hydrovac) are restricted due to location access and soil profile of the Site. XTO proposes advancing a delineation corehole utilizing a Shaw Tool, Ltd Portable Core Drill in the release area south of the lined containment and collecting soil samples. The release area and proposed borehole location are shown on Figure 3D. If laboratory analytical results from the proposed delineation soil sample location indicate concentrations exceed the Closure Criteria, XTO will apply a bio-remedial agent to the impacted area and define the impacted soil to be left in place. If laboratory analytical results are compliant with the Closure Criteria, XTO will proceed with a closure request for Incident Number NRM1931858285 (2RP-5697).

#### Incident Number NCE2002742193

To date, approximately 85 cubic yards of impacted soil were removed from the release area and transported to the R360 Facility in Hobbs, New Mexico. Impacted soil, as represented by confirmation soil samples FS01A and FS02A, remains on the floor of the southern excavation under the existing gas pipeline. Impacted soil also remains in the northern excavation, represented by excavation confirmation sample FS05. Further excavation of impacted soil beyond excavation floor soil samples FS01A, FS02A and FS05 was limited by the presence of active production equipment, pipelines, and electrical sources. XTO safety policy was enforced where impacted soil was identified within 2 feet of active production equipment or pipelines. BTEX, TPH-GRO/TPH-DRO, and TPH concentrations in soil sample FS05 indicate that enhanced

District II Page 11

biodegradation is actively occurring as a result of the MicroBlaze<sup>®</sup> application and will continue to reduce.

Laboratory analytical results for current delineation soil samples indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and the release is vertically delineated; however, additional delineation activities are required in order to fully delineate the extent of impacted soil remaining in place. XTO proposes advancing additional delineation points to confirm lateral delineation. The proposed delineation points are presented on Figure 4D. Once laboratory analytical results confirm full lateral delineation, XTO will proceed with submitting a deferral request for Incident Number NCE2002742193. Based on current delineation and excavation laboratory analytical data, XTO estimates the vertical extent of impacted soil does not exceed 1.5 feet bgs on the east side of the lined tank battery containment and 3 feet bgs on the south side of the lined tank battery containment.

#### **PROPOSED SCHEDULE**

XTO will complete the additional proposed remediation activities and provide a follow-up report detailing all remediation activities and a request for closure or deferral within 90 days of the date of approval of this work plan by NMOCD.

If you have any questions or comments, please do not hesitate to contact Ms. Ashley Ager at (970) 385-1096.

Kind regards,

-S. Holy

Joseph S. Hernandez Associate Consultant, Geologist

Ashley L. Ager

Ashley L. Ager, P.G. Managing Director, Geologist

District II Page 12

cc: Kyle Littrell, XTO Robert Hamlet, NMOCD Victoria Venegas, NMOCD Jim Amos, Bureau of Land Management

Attachments:

Figure 1	Site Location Map
Figure 2	Watercourse Survey
Figure 3A/4A	Preliminary Soil Sample Locations
Figure 3B/4B	Delineation Soil Sample Locations
Figure 3C/4C	Excavation Soil Sample Locations
Figure 3D/4D	Remediation Work Plan Proposed Soil Sample Locations
Table 1	Soil Analytical Results - Incident Number NRM1931858285 (2RP-5697)
Table 2	Soil Analytical Results - Incident Number NCE2002742193
Attachment 1	NMOSE Well Record (C-04474-POD1)
Attachment 2	Lithologic/Sampling Logs
Attachment 3	Photographic Log
Attachment 4A/4B	Laboratory Analytical Reports - Incident Number NRM1931858285 (2RP-
	5697) and Incident Number NCE2002742193

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# FIGURES

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TABLES

#### Soil Analytical Results Poker Lake Unit Pierce Canyon 28 Fed Incident Number NRM1931858285 and Remediation Permit Number 2RP-5697 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Cl	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
Surface Samples										
SS01	10/22/2019	0.5	< 0.00200	< 0.00200	<250	8,000	1,130	8,000	9,130	3,600
SS02	10/22/2019	0.5	< 0.00199	< 0.00199	<250	8,680	1,230	8,680	9,910	1,530
SS03	10/22/2019	0.5	< 0.00201	< 0.00201	<50.0	280	66.3	280	346	12,000
<b>Delineation Samples</b>										
BH01	12/05/2019	1	< 0.00199	< 0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	4,750
BH01A	12/05/2019	2	< 0.00198	< 0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	3,970
BH01B	12/05/2019	3	< 0.00198	< 0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	1,410
BH01C	12/05/2019	4	< 0.00198	< 0.00198	<49.9	52.0	<49.9	52.0	52.0	2,910
СН01	09/01/2020	1	< 0.00199	< 0.00199	<50.1	563	84.8	563	648	325
CH01A	09/01/2020	7	< 0.00200	< 0.00200	<49.8	90.7	<49.8	90.7	90.7	594
СН02	09/01/2020	1	< 0.00198	< 0.00198	<50.1	214	<50.1	214	214	596
CH02A	09/01/2020	7.5	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	114
<b>Excavation Floor Sa</b>	mples							<u>-</u>		
FS01	12/06/2019	5	< 0.00198	< 0.00198	<50.2	<50.2	<50.2	<50.2	<50.2	316
Excavation Sidewall	Excavation Sidewall Samples									
SW01	12/06/2019	0 - 5	< 0.00200	< 0.00200	<50.1	<50.1	<50.1	<50.1	< 50.1	5,400

#### Soil Analytical Results Poker Lake Unit Pierce Canyon 28 Fed Incident Number NRM1931858285 and Remediation Permit Number 2RP-5697 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			50	NE	NE	NE	1,000	2,500	20,000
SW02	12/06/2019	0 - 5	< 0.00198	< 0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	101
SW03	12/06/2019	0 - 5	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	268
SW04	12/06/2019	0 - 5	< 0.00198	< 0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	352

Notes:

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

< - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

**BOLD** - indicates results exceed the higher of the background sample result or applicable regulatory standard Greyed data represents samples that were excavated

Soil Analytical Results Poker Lake Unit Pierce Canyon 28 DTB Incident Number NCE2002742193 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
Surface Samples										
SS01	11/18/2019	0.5	0.00469	0.00987	<50.2	<50.2	<50.2	<50.2	<50.2	56.7
SS02	11/18/2019	0.5	15.3	324	7,400	17,500	1,320	24,900	26,200	8,450
SS03	11/18/2019	0.5	10.2	228	4,020	10,500	839	14,500	15,400	5,100
SS04	11/18/2019	0.5	8.49	198	2,600	6,560	524	9,160	9,680	12,000
SS05	11/18/2019	0.5	15.9	275	4,480	8,800	816	13,300	14,100	718
SS06	11/18/2019	0.5	0.013	0.0781	<50.2	148	57.5	148	206	2,580
Excavation Floor Sa	mples									
FS01	12/10/2019	1	5.18	111	1,930	4,540	340	6,470	6,810	7,400
FS01	01/27/2020	1	< 0.0502	11.3	367	2,190	150	2,560	2,710	3,880
FS01A	03/31/2020	1.5 - 2	< 0.00201	< 0.00201	<50.0	1,640	185	1,640	1,830	5,640
FS02	12/10/2019	1	0.144	32.2	1,160	5,540	551	6,700	7,250	2,190
FS02	01/27/2020	1	< 0.0833	1.11	140	1,290	97.8	1,430	1,530	2,900
FS02A	03/31/2020	1.5 - 2	< 0.00202	0.0198	<49.8	1,370	176	1,370	1,550	4,900
FS03	12/10/2019	1	1.57	70.7	1,330	2,770	220	4,100	4,320	4,440
FS03	01/27/2020	1	0.0225	11.6	970	4,340	455	5,310	5,770	1,240
FS03A	03/31/2020	1.5 - 3	< 0.00200	< 0.00200	<50.0	89.3	<50.0	89.3	89.3	50.8

Soil Analytical Results
Poker Lake Unit Pierce Canyon 28 DTB
Incident Number NCE2002742193
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Cl	NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			50	NE	NE	NE	1,000	2,500	20,000
FS04	01/27/2020	1	0.0242	19.0	686	3,700	458	4,390	4,840	1,780
FS04A	03/31/2020	3 - 6	< 0.00202	< 0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	69.0
FS05	12/10/2019	1	2.89	212	3,920	9,910	747	13,800	14,600	2,150
FS05	01/27/2020	1	0.956	85.6	2,660	8,150	608	10,800	11,400	1,070
<b>Excavation Sidewall</b>	Samples									
SW01	03/31/2020	0 - 2	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	136
SW02	03/31/2020	0 - 6	< 0.00202	< 0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	52.0
SW03	03/31/2020	0 - 2	< 0.00202	< 0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	21.5
<b>Delineation Samples</b>										
PH01	03/30/2020	2	< 0.00200	< 0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	<10.1
PH01A	03/30/2020	4	< 0.00201	< 0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	54.0
PH01B	03/30/2020	6	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	52.5
PH02	03/30/2020	2	< 0.00200	< 0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	33.1
PH02A	03/30/2020	4	< 0.00202	< 0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	274
PH02B	03/30/2020	5	< 0.0200	0.194	130	1,320	134	1,450	1,580	7,520
PH02C	03/30/2020	6	< 0.00202	< 0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	28.4
РН03	03/30/2020	2	< 0.00201	< 0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	36.1
PH03A	03/30/2020	4	< 0.00201	< 0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	21.2
PH03B	03/30/2020	6	< 0.00202	< 0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	16.4

#### Soil Analytical Results Poker Lake Unit Pierce Canyon 28 DTB Incident Number NCE2002742193 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			50	NE	NE	NE	1,000	2,500	20,000
PH04	03/31/2020	2	< 0.00200	< 0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	<10.1
PH04A	03/31/2020	4	< 0.00198	< 0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	258
PH04B	03/31/2020	6	< 0.00201	< 0.00201	58.7	<50.0	<50.0	58.7	58.7	526
PH05	03/31/2020	2	< 0.00200	< 0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	374
PH05A	03/31/2020	4	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	382
PH05B	03/31/2020	6	< 0.00198	< 0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	199
BH01	06/10/2020	1	< 0.00200	< 0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	183
BH01A	06/10/2020	4	< 0.00202	< 0.00202	<50.2	<50.2	<50.2	<50.2	<50.2	126
BH02	06/10/2020	1	< 0.00201	< 0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	58.4
BH02A	06/10/2020	3	< 0.00200	< 0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	297
BH03	07/13/2020	1.5	< 0.00202	< 0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	195
BH03A	07/13/2020	6	< 0.00200	< 0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	788

Notes:

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

< - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

**BOLD** - indicates results exceed the higher of the background sample result or applicable regulatory standard Greyed data represents samples that were excavated



2904 W 2nd St. Roswell, NM 88201 voice: 575.624.2420 fax: 575.624.2421 www.afkinsong.com

10/06/2020

DII-NMOSE 1900 W 2<sup>nd</sup> Street Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4472 Pod1

To whom it may concern:

Attached please find a well record and a plugging record, in duplicate, for a one (1) soil borings, C-4472 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Gran Middle

Lucas Middleton

Enclosures: as noted above



USA DILOCI 92020 M7 10

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# WELL RECORD & LOG

### OFFICE OF THE STATE ENGINEER www.ose.state.nm.us



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	30	45	15	Clayey Sand, Medium, low plasticit	, Dark Re	d-Brown		Y √N	
	45	50	5	Sand, Medium , poorly-graded, compacted	d, no plas	ticity, Brown		Y √N	
	50	58	8	Caliche, well cemented with medium	sand matr	ix. Brown		Y √N	
	58	73	15	Clayey Sand, Medium, Moderate plasticity	, increasi	ng clay, Brown		Y √N	
-J	73	78	5	Caliche, with Sandy clay layering, mod plastici	ty, poorly	-grated sand, Whi	te	Y √N	
WEL	78 83 5 Sand, Medium, poorly-graded, no plasticity, Light Brown							Y √N	
ð	83 88 5 Clayey Sand, Medium, Moderate plasticity, decreasing clay, Red Brown							Y √N	
4. HYDROGEOLOGIC LOG OF WELL	88							Y √N	
ICI								Y N	
00								Y N	
EOI								Y N	
RO								Y N	
								Y N	
4								Y N	
								Y N	
								Y N	
								Y N	
								Y N	
								Y N	
								Y N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA:		1	OTAL E	STIMATED	
	PUME		R LIFT	BAILER OTHER - SPECIFY:			WELL YI	ELD (gpm):	0.00
								_	
NO	WELL TEST			ACH A COPY OF DATA COLLECTED DURIN ME, AND A TABLE SHOWING DISCHARGE A					
VISION	MISCELLAN	EOUS INF	ORMATION: To	mporary well materials removed and the soil	honing k	a almillad using	بليتين الأسل	tin aa fuana tai	tal danéh éa éan
PER			166	er berow ground surface, men nyurateu benito	nite chip	s from ten feet l	elow gr	ound surface	to surface.
SU .			Lo	gs adapted from LTE on-site geologist.					
RIC									
TEST; RIG SUPER	PRINTNAM	E(S) OF DR	TLL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPER	JISION O	F WELL CONST	RUCTIO	N OTHER TH	AN LICENSEE
5. T	Shane Eldrid								
E)				IES THAT, TO THE BEST OF HIS OR HER KI ESCRIBED HOLE AND THAT HE OR SHE W					
6. SIGNATURE				0 DAYS AFTER COMPLETION OF WELL DRI			11		
ANE	Jack Al	6ina.						0/07/2020	
8. SI	7			Jackie D. Atkins			1	.0/06/2020	
		SIGNAT	JRE OF DRILLE	R / PRINT SIGNEE NAME				DATE	
FOF	OSE INTERN	IAL USE				WR-20 WELL	RECORI	D & LOG (Ver	rsion 06/30/2017)
	E NO.			POD NO.		TRN NÖ.			
LOC	CATION				WEIT	TAGIDNO			PAGE 2 OF 2

# 2020-10-05\_C-4474POD1\_OSE\_Well Record and Log-forsign

**Final Audit Report** 

2020-10-06

Created:	2020-10-06	the per pair and show one was
By:	Lucas Middleton (lucas@atkinseng.com)	DGE DT/ DCT 5 2020 ##211_
Status:	Signed	O AD
Transaction ID:	CBJCHBCAABAA_F9cZtiO34P0Tus3PoXnMWcxdmBx6HXt	A A A
		ZNAS

## "2020-10-05\_C-4474POD1\_OSE\_Well Record and Log-forsign" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2020-10-06 - 2:55:52 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2020-10-06 - 2:56:36 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2020-10-06 - 4:16:54 PM GMT- IP address: 74.50.153.115
- Document e-signed by Jack Atkins (jack@atkinseng.com) Signature Date: 2020-10-06 - 4:18:28 PM GMT - Time Source: server- IP address: 74.50.153.115
- Agreement completed. 2020-10-06 - 4:18:28 PM GMT



095E DTI 0011 6 2020 M2:LLL



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

#### I. GENERAL / WELL OWNERSHIP:

State E	Engineer Well Number: <u>C-4474-POD1</u> wmer: <u>XTO ENERGY (Kyle Littrell)</u>		Dhanabla	. 432.682.8873
Well C	ng address:6401 Holiday Hill Dr.		Phone No	
City:	Midland	State:	Texas	Zip code:79707
<u>II. W</u>	ELL PLUGGING INFORMATION:			
1)	Name of well drilling company that plu	igged well: <u>Ja</u>	ckie D. Atkins ( Atkins Engin	eering Associates Inc.)
2)	New Mexico Well Driller License No.:	1249		Expiration Date:
3)	Well plugging activities were supervise Shane Elridge	ed by the follow	ving well driller(s)/rig superv	risor(s):
4)	Date well plugging began: 09/15/20		Date well plugging concl	uded: 09/15/20
5)	GPS Well Location: Latitude: Longitude: _			1.44 sec 8.65 sec, WGS 84
6)	Depth of well confirmed at initiation of by the following manner: weighted tap		110 ft below ground	level (bgl),
7)	Static water level measured at initiation	1 of plugging:	n/a ft bgl	
8)	Date well plugging plan of operations	was approved b	y the State Engineer:09/02	2/2020
9)	Were all plugging activities consistent differences between the approved plug	with an approv ging plan and tl	ed plugging plan?Ye he well as it was plugged (at	s If not, please describe tach additional pages as needed):

### USE DIT OCT & 2020 m/2; 11

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

		· ••• ·			
<u>Depth</u> (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
	0-10' Hydrated Bentonite	Approx. 26 gallons	26 gallons	Augers	aminiai space also prugged , ekc.
-					
	10'-110' Drill Cuttings	Approx. 163 gallons	163 gallons	Boring	
-					
-					
-					
-					
1. <del></del>					
-					
	J	MULTIPLY cubic feet x 7. cubic yards x 201.	I BY AND OBTAIN 4905 = gallons 97 = gallons	•	•
III. SIGN.	ATURE:				

#### For each interval plugged, describe within the following columns:

#### III. SIGNATURE:

I, <u>Jackie D. Atkins</u>, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins

10/06/20

Signature of Well Driller

Date

Version: September 8, 2009 Page 2 of 2

## 2020-10-06\_C04774-POD1\_WD-11 Plugging Record- forsign

**Final Audit Report** 

2020-10-06

C IV

Created:	2020-10-06	OSE DIT DCT S 2020 #2:11
By:	Lucas Middleton (lucas@atkinseng.com)	OAO
Status:	Signed	O Creat
Transaction ID:	CBJCHBCAABAAkcDYFZZCiOmmTlfPTLygNOEure8NL-12	A A LO

## "2020-10-06\_C04774-POD1\_WD-11 Plugging Record- forsign" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2020-10-06 - 3:36:08 PM GMT- IP address: 69.21.248.123
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- Document e-signed by Jack Atkins (jack@atkinseng.com) Signature Date: 2020-10-06 - 4:22:32 PM GMT - Time Source: server- IP address: 74.50.153.115
- Agreement completed. 2020-10-06 - 4:22:32 PM GMT



ATTACHMENT 2: LITHOLOGIC/SAMPLING LOG

					WS	PUSA		PH Name: BH01 Date: 12/5/20
				I.	508 West 9	Stevens S	Street	Site Name: Poker Lake Unit Pierce Canyon 28 Fed
				Ca	508 West S rlsbad, Ne	w Mexico	88220	RP Number: 2RP-5697
								WSP Job Number: TE012919250
		LITH	OLOO	GIC / SOII	SAMPL	ING LO	G	Logged By: Spencer Lo Method: Hand Auger
Lat/Lo	ng: 32.18	2192N, 10	03.880	096W	Field Scree		Hole Diameter: 3 inches Total Depth: 4 feet bgs	
Comm	onto Ohlo				Chloride, F		4.4.4	
Comm	ients: Chio	oride testir	ng cono	ducted with 1	:4 dilution o	t soll to wa	iter.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol	Lithology/Remarks
					-	0 		Compacted pad surface caliche fill
М	3,864	36.4	Ν	BH01	1	1 		Brown to light brown, poorly-graded sand (f m.) with silt, low plasticity and no odor
М	1,170	29.6	Ν	BH01A	2	2		
М	554	7.4	N	BH01B	3	3 		
М	1,988	15.0	Ν	BH01C	4	- 4	cche	Brown to off-white, moderately consolidated caliche with no odor
						_		Total Depth
					-	_		
						5		
						_		
					-	_		
					-	6		
						_		
					-	_		
					-	7		
						-		
					-	_		
					-	8		
					•	_		
					-	_		
					-	9		
						-		
					-	_		
					-	10		
						_		
					-	_		
					-	11		
					•	_		
					-			
						12		

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					WS	P USA		Ρ	H Name: CH01	Date: 9/1/20		
Ì				ſ	508 West	Stevens S	Street	s	ite Name: Poker Lake Unit F	Pierce Canvon 28 Fed		
				Cai	rlsbad, Ne	w Mexico	88220		RP Number: 2RP-5697			
								W	SP Job Number: TE012919	9250		
		LITH	OLOO	GIC / SOIL	SAMPL	ING LO	G	Lo	ogged By: Ben Belill	Method: Shaw Core Drill		
Lat/Lo	ng: 32.18	2237N, 1	03.880	078W	Field Scre	ening:		Н	ole Diameter: 1.25 inches	Total Depth: 7 feet bgs		
_					Chloride, F							
Comm	ients: Chic	oride testii	ng cono	ducted with 1	:4 dilution c	f soil to wa	iter.					
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol		-	y/Remarks		
					-	0		Compacte	d pad surface caliche	fill		
М	500	0.8	N	CH01	1	1 1	SP-SM		ight brown, poorly-grad Ind no odor	ded sand (f m.) with silt, low		
М	820	0.1	N		2	2						
М	1,940	0.1	N		3	3						
М	1,820	0.1	N		4 _	4	cche	Tan, light	pink, moderately cons	olidated caliche with no odor		
М	820	0.1	N		5	5 						
М	-	-	N		6	6						
М	1,988	0.2	N	CH01A	7	- 7	cche					
1.41	1,000	0.2		0.101/1			00110		Tota	Depth		
					-	_				-		
						8						
					-	_						
					-	_						
						9						
					-	_						
					-	_						
						10						
					-	_ 10						
					-	_						
1						11						
1					-	_ ''						
1					-	_						
1						12						
						14						

.

Ţ					WS	SP USA		PH Name: CH02 Date: 9/1/20
				ı	508 West	Stevens S	Street	Site Name: Poker Lake Unit Pierce Canyon 28 Fed
				Ca	rlsbad, Ne	w Mexico	88220	
								WSP Job Number: TE012919250
		LITH	OLOO	GIC / SOII	SAMPL	ING LO	G	Logged By: Ben Belill Method: Shaw Core Drill
Lat/Lo	ng: 32.18	2210N, 10	03.8800	044W	Field Scre		Hole Diameter: 1.25 inches Total Depth: 7.5 feet bgs	
Comm	anta: Chia	rida taatir		ducted with 1	Chloride, F		tor	
Comm	ients: Chio	fide testir	ng cono	Jucted with 1	:4 dilution c	of soll to wa	iter.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol	Lithology/Remarks
					-	0		Compacted pad surface caliche fill
						-		
М	1,210	6.6	N	CH02	1	1 	SP-SM	/ Brown to light brown, poorly-graded sand (f m.) with silt, low plasticity and no odor
М	1,210	5.6	Ν		2	- 2 -		
м	1,690	2.5	N		3	3 3		
М	2,370	0.4	N		4	4 	cche	Tan, light pink, moderately consolidated caliche with no odor
М	2,070	0.5	N		5	- 5 -		
М	2,370	0.1	N		6	6 		
М	1,380	0.1	Ν		7	_ 7	cche	
М	960	0.3	Ν	CH02A	7.5	7.5	cche	
					-	- 9 - 9 - 10 - 11 - 11 - 12		Total Depth

			٦		WSI	P USA			BH Name: BH01	Date: 6/10/20
				5	08 West S Isbad, Nev	itevens Si	treet	-	Site Name: Poker Lake Unit Pie	rce Canyon 28 DTB
				Car	lsbad, Nev	v Mexico	88220	-	Incident Number: NCE2002742	
					0.000		<u></u>		WSP Job Number: TE01291928	
Lot/Lo	na: 22 102			GIC / SOIL 057875W	Field Scree		j		Logged By: Robert McAfee Hole Diameter: 3 inches	Method: Hand Auger Total Depth: 4 feet bgs
LavLO	11y. 32. 162	207 1911,	103.00	03787399	Chloride, F				Hole Diameter. 5 inches	Total Depth. 4 leet bgs
Comm	ents: Chlo	oride testir	ng conc	lucted with 1:4	dilution of	soil to wate	er.			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithology/I	Remarks
					-	0	cche	Compact	ed pad surface caliche fil	I
М	520	0.5	Ν	BH01	1	1 1	SP-SM	Brown, p	oorly-graded sand (f.) wit	h silt, low plasticity and no odor
М	200	0.1	Ν		2	2				
М	240	0.1	Ν		3	3	SP-SC	Brown, p	oorly-graded sand (f.) wit	h clay, low plasticity and no odor
М	200	0.1	N	BH01A	4	4	SP-SC	(Auger R	efusal at 4.5 ft bgs - cons	olidated caliche)
						- 5 - 6 - 7 - 8 - 9 - 10 - 11			Total E	Depth
					-	12				

					WS	P USA		BH Name: BH0	2	Date: 6/10/20			
						Stovene C	troot	Site Name: Pok	er Lake Unit Pier	rce Canyon 28 DTB			
				Car	08 West S Isbad, Ne	w Mexico	88220		r: NCE2002742				
									WSP Job Number: TE012919281				
		LITH	OLOG	SIC / SOIL	SAMPL		G	Logged By: Rob	ert McAfee	Method: Hand Auger			
Lat/Long: 3	2.1822				Field Scree			Hole Diameter:		Total Depth: 3 feet bgs			
					Chloride, P								
Comments	: Chlori	de testin	ig conc	lucted with 1	4 dilution o	f soil to wa							
Moisture Content Chloride	(mqq)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithology/F	Remarks			
					-	0	cche	ompacted pad surfa	ice caliche fill				
M < 1	124	0.5	Ν	BH02	1	- - 1 -	SP-SM	own, poorly-graded	l sand (f.) with	n silt, low plasticity and no odor			
M 28	80	0.3	Ν		2	2							
M 38	80	0.2	Ν	BH02A	3	3	SP-SM	uger refusal at 3.5	ft bas - conso	lidated caliche)			
		0.2		21102/1	•			ager related at the	Total D				
						- 4 - 5 - 6 - 7 - 8 - 7 - 8 - 9 - 10 - 11 - 11 - 12							

					WS	P USA		BH Name: BH03 Date: 7/13/20
Ì				c.	508 Meet 9	Stevens 9	Street	Site Name: Poker Lake Unit Pierce Canyon 28 DTB
				Cai	508 West S Isbad, Ne	w Mexico	88220	Incident Number: NCE2002742193
								WSP Job Number: TE012919281
		LITH	OLOC	SIC / SOIL	SAMPL	ING LO	G	Logged By: Robert McAfee Method: Hydrovac
Lat/Lo	ng: 32.182	239N, 10	3.8803	60W	Field Scree	ening:		Hole Diameter: 12 inches Total Depth: 6 feet bgs
0					Chloride, F		4	
Comm	ients: Chio	oride testir	ng conc	lucted with 1	4 dilution o	t soli to wa	iter.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS Syn	Lithology/Remarks
м	<124	0.7	Ν	BH03	1	0 1 1 1.5		Compacted pad surface caliche fill / Brown, poorly-graded sand (f.) with silt, low plasticity and no odor,
м	280	1.3	Ν		2	2		trace caliche
М	235	0.2	Ν		3	3	cche	Tan, consolidated caliche
м	173	0.5	Ν		4	- 4 	cche	
	500	1.0	N		6	- 6	aaba	Tan well concelled colleba
М	580	1.2	Ν	BH03A	6	6	cche	Tan, well consolidated caliche Total Depth
					- -	- 7 - 8 - 9 - 10 - 11 - 11 - 12		

			٦		W	SP USA		Pł	H Name: PH01	Date: 3/30/20		
					508 West	Stevens	Street	Si	te Name: Poker La	ke Unit Pierce Canyon 28 DTB		
				Ca	rlsbad, N	ew Mexico	88220	In	Incident Number: NCE2002742193			
								W	SP Job Number: T	E012919281		
		LITH	IOLO	GIC / SOI	L SAMP	LING LO	G	Lo	gged By: Ben Belil	I Method: Track Hoe		
Lat/Loi	ng: 32.182	13145N,	103.88		Field Scre			He	ole Diameter: n/a	Total Depth: 6 feet bgs		
0					Chloride, I		1					
Comm	ents: Chlo	ride testir	ng cond	lucted with 1	:4 dilution d	of soil to wa	iter.					
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Li	ithology/Remarks		
М	-	-	Ν	-	-	0  1 1	SP-SM	Brown-red odor	, poorly-graded	sand (f.) with silt, low plasticity and no		
М	235	0.6	N	PH01	2	- 2 - 2 - 3	cche	Tan, well c	onsolidated ca	liche with no odor		
М	173	2.5	Ν	PH01A	4	- - 4 - 4 - 5	cche					
М	173	2	N	PH01B	6	- - - 6	cche			Total Depth		
					-	- 7 - 7 - 8						
						- - - -						
					-	- 10 						
						- 12						

	\\ <b>'</b>				N	ISP USA		PH Name: PH02 Date: 3/30/20
					508 Wes	t Stevens :	Street	I Site Name: Poker Lake Unit Pierce Canyon 28 DTB
				Ca	rlsbad, N	lew Mexico	88220	Incident Number: NCE2002742193
								WSP Job Number: TE012919281
				GIC / SOI			G	Logged By: Ben Belill Method: Track Hoe
Lat/Lo	ng: 32.18	2123N, 10	03.880		Field Scre			Hole Diameter: n/a Total Depth: 6 feet bgs
Comm	onte: Chlo	rido tostir		ducted with 1	Chloride,		tor	
Comm	ients. Chio	inde lestii	ig conc		.4 unution		ilei.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bac)	USCS Sym	Lithology/Remarks
М	-	-	Ν	-		0	SP-SM	Light brown to red, poorly-graded sand (f.) with silt, low plasticity
М	-	439.0	Ν	PH02	2	- - - - - - - - - - - - - - - - - - -	cche	Tan, moderately consolidated caliche with no odor
М	274	100.3	Ν	PH02A	4	- 4 -	cche	
М	< 120	8.8	Ν	PH02B	5	5 	cche	
М	< 120	4.4	N	PH02C	6	6	cche	
						-		Total Depth
						- 7 - 8 - 9 - 10 - 11 - 11		

					W	SP USA			PH Name: PH03	Date: 3/30/20	
							Ohnort		Sito Nama: Pokar Laka	Unit Pierce Canyon 28 DTB	
				Ca	508 West arlsbad, Ne	ew Mexico	5 88220		Site Name: Poker Lake		
							00110	-	WSP Job Number: TE012919281		
		LITH		GIC / SOI			G		Logged By: Ben Belill	Method: Track Hoe	
Lat/Lo	ng: 32,182				Field Scree			Hole Diameter: n/a	Total Depth: 6 feet bgs		
				01001011	Chloride, F						
Comm	nents: Chlo	ride testir	ng cond	lucted with 1			iter.				
					-	-	-				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol			ology/Remarks	
М	-	-	Ν	-	_	0	SP-SM			raded sand (f.) with silt, low plasticity	
м	207	0.3	Ν	PH03	2	- - - - - 2	cche	and no o Tan, moo		ed caliche with no odor	
					- - - - -	- - - - -					
м	173	3.5	Ν	PH03A	4	4 5 5	cche				
М	173	1.3	Ν	PH03B	6	6	cche				
	173	1.3	IN	PHU3D	0 					Total Depth	

					WS	P USA			PH Name: PH04	Date: 3/31/20		
				ļ	508 West	Stevens S	Street		Site Name: Poker Lake	Unit Pierce Canyon 28 DTB		
				Ca	rlsbad, Ne	w Mexico	88220		Incident Number: NCE2002742193			
									WSP Job Number: TEC	12919281		
		LITH	OLOG	SIC / SOII	SAMPL	ING LO	G		Logged By: Ben Belill	Method: Track Hoe		
Lat/Lo	ng: 32.182	31103N,	103.88	052735W	Field Scre	ening:			Hole Diameter: n/a	Total Depth: 6 feet bgs		
					Chloride, F							
Comm	nents: Chlo	ride testi	ng cond	ducted with 1	:4 dilution o	of soil to wa	ater.					
							×	r				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lith	ology/Remarks		
М	-	-	Ν	-	_	0		Compact	ed pad surface ca	iche fill		
						_						
М	< 600	0.6	Ν	PH04	- 2	1 1 2	SP-SM	Brown to plasticity		/-graded sand (f m.) with silt, low		
					-	- - - -	SP-SC		light brown, poorly derate plasticity an	/-graded sand (f m.) with brown-red d no odor		
Μ	< 600	0.5	Ν	PH04A	4 _ 	4 5 5	cche	Tan to of	f-white, moderately	/ consolidated caliche with no odor		
м	< 600	1	Ν	PH04B	6	- 6	cche					
					-	- 7 - 7 - 8 - 9 - 10 - 11 - 11				Total Depth		

					WS	P USA			PH Name: PH05	Date: 3/31/20
							Nue I		Sito Nome: Deltas Lata	
				Ca	508 West S rlsbad, Ne	stevens S w Mexico	5treet 88220		Site Name: Poker Lake Incident Number: NCE2	Unit Pierce Canyon 28 DTB
									WSP Job Number: TE0	
		LITH	OLOO	GIC / SOII	SAMPL	ING LO	G		Logged By: Ben Belill	Method: Track Hoe
Lat/Lo	ng: 32.18				Field Scree		-		Hole Diameter: n/a	Total Depth: 6 feet bgs
	-				Chloride, F	DID				
Comm	nents: Chlo	oride testi	ng cono	ducted with 1	:4 dilution o	f soil to wa	ater.			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol			ology/Remarks
					-	0		Compac	ted pad surface cali	che fill
М	< 600	0.2	N	PH05	2	- - - - - - 2	SP-SM		o light brown, poorly v and no odor	-graded sand (f m.) with silt, low
					- - -	3	SP-SC		o light brown, poorly no odor	-graded sand (f m.) with brown-red
М	< 600	0.5	N	PH05A	4	4 5	cche	Tan to o	ff-white, moderately	consolidated caliche with no odor
м	< 600	0.8	N	PH05B	6	- - 6	cche			Fotal Depth
					- - - - - - - - - - - - - - - - - - -	- 7 - 8 - 9 - 10 - 11 - 11 - 12				

Released to Imaging: 4/8/2021 3:32:01 PM

# vsp

PHOTOGRAPHIC LOG							
XTO Energ	y, INC.	Poker Lake Unit Pierce Canyon 28 Eddy County, New Mexico	TE012919250 & TE012919281				
		Eddy County, New Mexico	1E012919201				
Photo No.	Date						
1	March 31, 2020						
NRM1931858	3285 (2RP-5697)		r" to				
Southern view of the eastern excavation.							



# vsp

		PHOTOGRAPHIC LOG	
XTO Energy, INC.		Poker Lake Unit Pierce Canyon 28	TE012919250 & TE012919281
		Eddy County, New Mexico	
	·		·
Photo No.	Date		
2	January 27, 20	20	

3	January 27, 2020	
NCE200	)2742193	
Delineation acti	vities west of the containment.	


# wsp

		PHOTOGRAPHIC LOG	
XTO Energ	jy, INC.	Poker Lake Unit Pierce Canyon 28	TE012919250 &
		Eddy County, New Mexico	TE012919281
Photo No.	Date		
5	March 31, 2020		
NCE20	002742193	and the	
	e tank battery ainment.		

Photo No.	Date
	September 1,
6	2020
NCE200	)2742193
	activities at CH02 le location.

•

Released to Imaging: 4/8/2021 3:32:01 PM

Environment Testing

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Xenco

**Project Id:** 012919250

Contact: Dan Moir

**Project Location:** 

Certificate of Analysis Summary 640829

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WSP USA, Dallas, TX

### Project Name: PLU PC 28 Battery 2RP-5697

**Date Received in Lab:** Wed 10.23.2019 12:25

**Report Date:** 12.16.2020 10:05

Project Manager: Jessica Kramer

	Lab Id:	640829-0	01	640829-0	02	640829-0	003		
Analysis Requested	Field Id:	SS01		SS02		SS03			
Anuiysis Kequesieu	Depth:	0.5- ft		0.5- ft		0.5- ft			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	10.22.2019	13:15	10.22.2019	13:20	10.22.2019	13:25		
BTEX by EPA 8021B	Extracted:	10.28.2019	11:45	10.28.2019	11:45	10.28.2019	11:45		
SUB: T104704400-20-21	Analyzed:	10.28.2019	20:14	10.28.2019	20:34	10.28.2019	21:53		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201		
Toluene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201		
Ethylbenzene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201		
m,p-Xylenes		< 0.00400	0.00400	< 0.00398	0.00398	< 0.00402	0.00402		
o-Xylene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201		
Total Xylenes		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201		
Total BTEX		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00201	0.00201		
Chloride by EPA 300	Extracted:	10.24.2019	14:30	10.24.2019	14:30	10.24.2019	16:45		
SUB: T104704400-20-21	Analyzed:	10.24.2019	23:26	10.24.2019	23:31	10.24.2019	17:43		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		3600	24.8	1530	25.3	12000	99.8		
TPH by SW8015 Mod	Extracted:	10.25.2019	17:00	10.25.2019	17:00	10.25.2019	17:00		
SUB: T104704400-20-21	Analyzed:	10.26.2019	04:10	10.26.2019	04:31	10.26.2019	04:52		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<250	250	<250	250	<50.0	50.0		
Diesel Range Organics (DRO)		8000	250	8680	250	280	50.0		
Motor Oil Range Hydrocarbons (MRO)		1130	250	1230	250	66.3	50.0		
Total GRO-DRO		8000	250	8680	250	280	50.0		
Total TPH		9130	250	9910	250	346	50.0		

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jession Vramer

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# Analytical Report 640829

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# for

# WSP USA

**Project Manager: Dan Moir** 

PLU PC 28 Battery 2RP-5697

### 012919250

### 12.16.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

12.16.2020 Project Manager: **Dan Moir** 

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

Reference: Eurofins Xenco, LLC Report No(s): 640829 PLU PC 28 Battery 2RP-5697 Project Address:

### Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 640829. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 640829 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession beamer

Jessica Kramer Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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# Sample Cross Reference 640829

### WSP USA, Dallas, TX

PLU PC 28 Battery 2RP-5697

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	10.22.2019 13:15	0.5 ft	640829-001
SS02	S	10.22.2019 13:20	0.5 ft	640829-002
SS03	S	10.22.2019 13:25	0.5 ft	640829-003

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### **CASE NARRATIVE**

Client Name: WSP USA Project Name: PLU PC 28 Battery 2RP-5697

 Project ID:
 012919250

 Work Order Number(s):
 640829

 Report Date:
 12.16.2020

 Date Received:
 10.23.2019

#### Sample receipt non conformances and comments:

V1.001 Revision (client email) Corrected project name/number and sample depth. JK 04/02/20 V1.002 Revision - Changed client name from LT Environmental to WSP USA JK 12/15/20 V1.003 Revision - Changed sample 001 (SS01) sample depth to 0.5' JK 12/16/20

Sample receipt non conformances and comments per sample:

None

### Analytical non conformances and comments:

Batch: LBA-3105707 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

# **Certificate of Analytical Results 640829**

# WSP USA, Dallas, TX

PLU PC 28 Battery 2RP-5697

Sample Id: <b>SS01</b> Lab Sample Id: 640829-001		Matrix Date C	: Soil ollected: 10.22	.2019 13:15		Date Received:10.23 Sample Depth: 0.5 ft		25
Analytical Method: Chloride by EP	A 300					Prep Method: E300	P	
Tech: CHE						% Moisture:		
Analyst: CHE		Date P	rep: 10.24	.2019 14:30			Weight	
Seq Number: 3105377						SUB: T104704400-2	20-21	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3600	24.8		mg/kg	10.24.2019 23:26		5
Analytical Method:TPH by SW801Tech:DVMAnalyst:ARMSeq Number:3105552	5 Mod	Date P	rep: 10.25	.2019 17:00		Prep Method: SW8 % Moisture: Basis: Wet SUB: T104704400-2	Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<250	250		mg/kg	10.26.2019 04:10	U	5
Diesel Range Organics (DRO)	C10C28DRO	8000	250		mg/kg	10.26.2019 04:10		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	1130	250		mg/kg	10.26.2019 04:10		5
Total GRO-DRO	PHC628	8000	250		mg/kg	10.26.2019 04:10		5
Total TPH	PHC635	9130	250		mg/kg	10.26.2019 04:10		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	76	%	70-135	10.26.2019 04:10		
o-Terphenyl		84-15-1	85	%	70-135	10.26.2019 04:10		

### **Certificate of Analytical Results 640829**

# WSP USA, Dallas, TX

10.28.2019 11:45

% Moisture:

SUB: T104704400-20-21

Wet Weight

Basis:

PLU PC 28 Battery 2RP-5697

Sample Id: SS01	Matrix: Soil	Date Received:10.23.2019 12:25
Lab Sample Id: 640829-001	Date Collected: 10.22.2019 13:15	Sample Depth: 0.5 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B

Date Prep:

Analytical Method: BTEX by EPA 8021B Tech: KTL

KTL Analyst:

Seq Number: 3105707

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.28.2019 20:14	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.28.2019 20:14	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.28.2019 20:14	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	10.28.2019 20:14	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.28.2019 20:14	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.28.2019 20:14	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.28.2019 20:14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	112	%	70-130	10.28.2019 20:14		
1,4-Difluorobenzene		540-36-3	94	%	70-130	10.28.2019 20:14		

# **Certificate of Analytical Results 640829**

# WSP USA, Dallas, TX

PLU PC 28 Battery 2RP-5697

Sample Id: <b>SS02</b> Lab Sample Id: 640829-002		Matrix Date C	: Soil collected: 10.22	.2019 13:20		Date Received:10.23 Sample Depth: 0.5 ft		25
Analytical Method: Chloride by EP.	A 300					Prep Method: E300	)P	
Tech: CHE Analyst: CHE			10.24	.2019 14:30		% Moisture:		
Seq Number: 3105377		Date P	rep: 10.24	.2019 14:30		Basis: Wet SUB: T104704400-2	Weight 20-21	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1530	25.3		mg/kg	10.24.2019 23:31		5
Analytical Method: TPH by SW801 Tech: DVM Analyst: ARM Seq Number: 3105552	5 Mod	Date P	rep: 10.25	.2019 17:00		Prep Method: SW8 % Moisture: Basis: Wet SUB: T104704400-2	Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<250	250		mg/kg	10.26.2019 04:31	U	5
Diesel Range Organics (DRO)	C10C28DRO	8680	250		mg/kg	10.26.2019 04:31		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	1230	250		mg/kg	10.26.2019 04:31		5
Total GRO-DRO	PHC628	8680	250		mg/kg	10.26.2019 04:31		5
Total TPH	PHC635	9910	250		mg/kg	10.26.2019 04:31		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	75	%	70-135	10.26.2019 04:31		
o-Terphenyl		84-15-1	85	%	70-135	10.26.2019 04:31		

### **Certificate of Analytical Results 640829**

# WSP USA, Dallas, TX

10.28.2019 11:45

% Moisture:

SUB: T104704400-20-21

Wet Weight

Basis:

PLU PC 28 Battery 2RP-5697

Sample Id: SS02	Matrix: Soil	Date Received:10.23.2019 12:25
Lab Sample Id: 640829-002	Date Collected: 10.22.2019 13:20	Sample Depth: 0.5 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B

Date Prep:

Analytical Method: BTEX by EPA 8021B Tech: KTL

KTL Analyst:

Seq Number: 3105707

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	10.28.2019 20:34	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	10.28.2019 20:34	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	10.28.2019 20:34	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	10.28.2019 20:34	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	10.28.2019 20:34	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	10.28.2019 20:34	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	10.28.2019 20:34	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	105	%	70-130	10.28.2019 20:34		
1,4-Difluorobenzene		540-36-3	88	%	70-130	10.28.2019 20:34		

# **Certificate of Analytical Results 640829**

# WSP USA, Dallas, TX

PLU PC 28 Battery 2RP-5697

Sample Id: <b>SS03</b> Lab Sample Id: 640829-003		Matrix Date C	: Soil ollected: 10.22	.2019 13:25		Date Received:10.23 Sample Depth: 0.5 ft		:25
Analytical Method: Chloride by EP.	A 300					Prep Method: E300	P	
Tech: CHE Analyst: CHE			10.04	0010 16 45		% Moisture:		
		Date P	rep: 10.24	.2019 16:45		Basis: Wet	Weight	
Seq Number: 3105379						SUB: T104704400-2	20-21	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12000	99.8		mg/kg	10.24.2019 17:43		20
Analytical Method:TPH by SW801Tech:DVMAnalyst:ARMSeq Number:3105552	5 Mod	Date P	rep: 10.25	.2019 17:00		Prep Method: SW8 % Moisture: Basis: Wet SUB: T104704400-2	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	10.26.2019 04:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	280	50.0		mg/kg	10.26.2019 04:52		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	66.3	50.0		mg/kg	10.26.2019 04:52		1
Total GRO-DRO	PHC628	280	50.0		mg/kg	10.26.2019 04:52		1
Total TPH	PHC635	346	50.0		mg/kg	10.26.2019 04:52		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	77	%	70-135	10.26.2019 04:52		
o-Terphenyl		84-15-1	83	%	70-135	10.26.2019 04:52		

### **Certificate of Analytical Results 640829**

### WSP USA, Dallas, TX

PLU PC 28 Battery 2RP-5697

10.28.2019 11:45

%

% Moisture:

Wet Weight

Basis:

70-130

10.28.2019 21:53

Sample Id: SS03	Matrix: Soil	Date Received:10.23.2019 12:25	
Lab Sample Id: 640829-003	Date Collected: 10.22.2019 13:25	Sample Depth: 0.5 ft	
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B	

Date Prep:

Analytical Method: BTEX by EPA 8021B Tech: KTL

Analyst: KTL Seq Number: 3105707

4-Bromofluorobenzene

SUB: T104704400-20-21 Parameter **Cas Number** Result RL Dil Units **Analysis Date** Flag Benzene 71-43-2 < 0.00201 0.00201 10.28.2019 21:53 mg/kg U 1 Toluene 108-88-3 < 0.00201 0.00201 10.28.2019 21:53 U mg/kg 1 Ethylbenzene 100-41-4 < 0.00201 0.00201 10.28.2019 21:53 U mg/kg 1 m,p-Xylenes 179601-23-1 < 0.00402 0.00402 10.28.2019 21:53 U mg/kg 1 o-Xylene 95-47-6 < 0.00201 0.00201 mg/kg 10.28.2019 21:53 U 1 Total Xylenes 1330-20-7 U < 0.00201 0.00201 mg/kg 10.28.2019 21:53 1 Total BTEX < 0.00201 0.00201 10.28.2019 21:53 U 1 mg/kg Cas Number Surrogate % Recovery Units Limits Analysis Date Flag 540-36-3 70-130 10.28.2019 21:53 1,4-Difluorobenzene 98 %

100

460-00-4

Xenco

**Environment Testing** 

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# **Flagging Criteria**

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Sam	ple Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	l for this compound.			

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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**Environment Testing** 

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# WSP USA

PLU PC 28 Battery 2RP-5697

Analytical Method: Seq Number:	3105377		)0		Matrix:					ep Meth Date Pr	ep: 10.2	4.2019	
MB Sample Id:	7688863-1-E	BLK		LCS Sar	nple Id:	7688863-	I-BKS		LCSI	-	e Id: 768	8863-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<5.00	250	265	106	264	106	90-110	0	20	mg/kg	10.24.2019 21:06	
Analytical Method: Seq Number:	<b>Chloride by</b> 3105379	EPA 30	)0		Matrix:	Solid			Pr	ep Meth Date Pr		0P 24.2019	
MB Sample Id:	7688864-1-E	BLK		LCS Sar	nple Id:	7688864-	I-BKS		LCSI		•	8864-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<0.858	250	254	102	248	99	90-110	2	20	mg/kg	10.24.2019 17:15	
<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>Chloride by</b> 3105377 640781-009	EPA 30	)0		Matrix: nple Id:	Soil 640781-00	)9 S			ep Methe Date Pr D Sample	ep: 10.2	0P 24.2019 781-009 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD	MSD	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		23.4	250 Allount	303	112	Result 305	<b>%Rec</b> 113	90-110	1	20	mg/kg	10.24.2019 21:21	Х
<b>Analytical Method:</b> Seq Number: Parent Sample Id:	3105377	EPA 30	)0		Matrix: nple Id:		20 S			ep Methe Date Pr D Sample	ep: 10.2	4.2019	
-	3105377 640781-020	Parent	Spike	MS Sar MS	nple Id: MS	640781-02 <b>MSD</b>	MSD	Limits		Date Pr D Sample <b>RPD</b>	ep: 10.2	24.2019 781-020 SD Analysis	Flag
Seq Number: Parent Sample Id:	3105377 640781-020			MS Sar	nple Id:	640781-02		<b>Limits</b> 90-110	MS	Date Pr D Sample	ep: 10.2 e Id: 640	24.2019 781-020 SD	Flag X
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number:	3105377 640781-020 Chloride by 3105379	Parent Result 633	Spike Amount 250	MS Sar MS Result 922	mple Id: MS %Rec 116 Matrix:	640781-02 <b>MSD</b> <b>Result</b> 930 Soil	<b>MSD</b> %Rec 119		MSI <b>%RPD</b> 1 Pr	Date Pr D Sample RPD Limit 20 rep Methe Date Pr	ep: 10.2 e Id: 640 Units mg/kg od: E30 ep: 10.2	24.2019 781-020 SD Analysis Date 10.24.2019 22:31 0P 24.2019	U
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method:	3105377 640781-020 Chloride by 3105379 640835-001	Parent Result 633 EPA 30 Parent	Spike Amount 250 00 Spike	MS Sar MS Result 922 MS Sar MS	nple Id: MS %Rec 116 Matrix: nple Id: MS	640781-02 MSD Result 930 Soil 640835-00 MSD	MSD %Rec 119 )1 S MSD		MSI <b>%RPD</b> 1 Pr	Date Pr D Sample <b>RPD</b> Limit 20 rep Methe Date Pr D Sample <b>RPD</b>	ep: 10.2 e Id: 640 Units mg/kg od: E30 ep: 10.2	24.2019 781-020 SD Analysis Date 10.24.2019 22:31 0P 24.2019 835-001 SD Analysis	U
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id:	3105377 640781-020 Chloride by 3105379 640835-001	Parent Result 633 EPA 30	Spike Amount 250	MS Sar MS Result 922 MS Sar	nple Id: MS %Rec 116 Matrix: nple Id:	640781-02 MSD Result 930 Soil 640835-00	MSD %Rec 119	90-110 Limits	MSI <b>%RPD</b> 1 Pr MSI	Date Pr D Sample <b>RPD</b> Limit 20 rep Methe Date Pr D Sample	ep: 10.2 e Id: 640 Units mg/kg od: E30 ep: 10.2 e Id: 640	24.2019 781-020 SD Analysis Date 10.24.2019 22:31 0P 24.2019 835-001 SD	X
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number:	3105377 640781-020 Chloride by 3105379 640835-001	Parent Result 633 EPA 30 Parent Result 30.8	Spike Amount 250 00 Spike Amount 253	MS Sar MS Result 922 MS Sar MS Result 312	nple Id: MS %Rec 116 Matrix: nple Id: MS %Rec 111 Matrix:	640781-02 MSD Result 930 Soil 640835-00 MSD Result 309	MSD %Rec 119 01 S MSD %Rec 110	90-110 Limits	MSI %RPD 1 Pr MSI %RPD 1 Pr	Date Pr D Sample RPD Limit 20 ep Methe Date Pr D Sample RPD Limit 20 ep Methe Date Pr	ep: 10.2 e Id: 640 Units mg/kg od: E30 ep: 10.2 e Id: 640 Units mg/kg od: E30 ep: 10.2	24.2019 781-020 SD Analysis Date 10.24.2019 22:31 0P 24.2019 835-001 SD Analysis Date 10.24.2019 23:37	X
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter Chloride Analytical Method:	3105377 640781-020 Chloride by 3105379 640835-001 Chloride by 3105379 640835-010	Parent Result 633 EPA 30 Parent Result 30.8 EPA 30 Parent	Spike Amount 250 )0 Spike Amount 253 )0 Spike	MS Sar MS Result 922 MS Sar MS Result 312 MS Sar MS	nple Id: MS %Rec 116 Matrix: nple Id: MS %Rec 111 Matrix: nple Id: MS	640781-02 MSD Result 930 Soil 640835-00 MSD Result 309 Soil 640835-0 MSD	MSD %Rec 119 01 S MSD %Rec 110	90-110 Limits	MSI %RPD 1 Pr MSI %RPD 1 Pr	Date Pr D Sample RPD Limit 20 ep Methe Date Pr D Sample RPD Limit 20 ep Methe Date Pr	ep: 10.2 e Id: 640 Units mg/kg od: E30 ep: 10.2 e Id: 640 Units mg/kg od: E30 ep: 10.2	44.2019 781-020 SD Analysis Date 10.24.2019 22:31 0P 44.2019 835-001 SD Analysis Date 10.24.2019 23:37	X
Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id: Parameter Chloride Analytical Method: Seq Number: Parent Sample Id:	3105377 640781-020 Chloride by 3105379 640835-001 Chloride by 3105379 640835-010	Parent Result 633 EPA 30 Parent Result 30.8 EPA 30	Spike Amount 250 )0 Spike Amount 253	MS Sar MS Result 922 MS Sar MS Result 312	nple Id: MS %Rec 116 Matrix: nple Id: MS %Rec 111 Matrix: nple Id:	640781-02 MSD Result 930 Soil 640835-00 MSD Result 309 Soil 640835-0	MSD %Rec 119 01 S MSD %Rec 110	90-110 <b>Limits</b> 90-110	MSI %RPD 1 Pr MSI %RPD 1 Pr MSI	Date Pr D Sample <b>RPD</b> Limit 20 rep Methe Date Pr D Sample <b>RPD</b> Limit 20 rep Methe Date Pr Date Pr Date Pr Date Pr	ep: 10.2 e Id: 640 Units mg/kg od: E30 ep: 10.2 e Id: 640 Units mg/kg od: E30 ep: 10.2 e Id: 640	44.2019 781-020 SD Analysis Date 10.24.2019 22:31 0P 24.2019 835-001 SD Analysis Date 10.24.2019 23:37 0P 24.2019 835-010 SD Analysis	X Flag X

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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**Environment Testing** 

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### WSP USA

PLU PC 28 Battery 2RP-5697

Analytical Method:	TPH by S	W8015 M	od						Pi	rep Metho	od: SW	8015P	
Seq Number:	3105552				Matrix:	Solid				Date Pr	ep: 10.2	25.2019	
MB Sample Id:	7688965-1	-BLK		LCS Sar	nple Id:	7688965-	1-BKS		LCS	D Sample	e Id: 768	8965-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<15.0	1000	840	84	826	83	70-135	2	20	mg/kg	10.25.2019 20:31	
Diesel Range Organics	(DRO)	<15.0	1000	864	86	862	86	70-135	0	20	mg/kg	10.25.2019 20:31	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		86		8	37		104	Ļ	70	-135	%	10.25.2019 20:31	
o-Terphenyl		91		ç	90		90		70	-135	%	10.25.2019 20:31	

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8	3015P	
Seq Number:	3105552	Matrix:	Solid	Date Prep:	10.2	5.2019	
		MB Sample Id:	7688965-1-BLK				
Parameter		MB Result		U	Inits	Analysis Date	Flag
Motor Oil Range Hydrocarl	oons (MRO)	<50.0		m	ng/kg	10.25.2019 20:09	

Analytical Method:	TPH by SV	V8015 M	od						Pi	rep Meth	od: SW	8015P	
Seq Number:	3105552				Matrix:	Soil				Date Pr	ep: 10.2	25.2019	
Parent Sample Id:	640878-001			MS Sar	nple Id:	640878-00	01 S		MS	D Sample	e Id: 640	878-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	18.8	997	851	83	850	83	70-135	0	20	mg/kg	10.25.2019 21:33	
Diesel Range Organics (	DRO)	975	997	2140	117	2130	116	70-135	0	20	mg/kg	10.25.2019 21:33	
Surrogate					1S Rec	MS Flag	MSD %Rec			imits	Units	Analysis Date	
1-Chlorooctane				ç	90		96		70	-135	%	10.25.2019 21:33	
o-Terphenyl				1	02		106		70	-135	%	10.25.2019 21:33	

<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>BTEX by EPA 802</b> 3105707 7689008-1-BLK	l <b>B</b>	LCS San	Matrix: nple Id:	Solid 7689008-	1-BKS			rep Meth Date Pr D Sample	ep: 10.2	5030B 28.2019 9008-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.101	101	0.102	102	70-130	1	35	mg/kg	10.28.2019 15:33	
Toluene	< 0.00200	0.100	0.0919	92	0.0942	94	70-130	2	35	mg/kg	10.28.2019 15:33	
Ethylbenzene	< 0.00200	0.100	0.0924	92	0.0945	95	70-130	2	35	mg/kg	10.28.2019 15:33	
m,p-Xylenes	< 0.00400	0.200	0.185	93	0.188	94	70-130	2	35	mg/kg	10.28.2019 15:33	
o-Xylene	< 0.00200	0.100	0.0874	87	0.0900	90	70-130	3	35	mg/kg	10.28.2019 15:33	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	94		ç	97		103		70	-130	%	10.28.2019 15:33	
4-Bromofluorobenzene	95		1	01		110		70	-130	%	10.28.2019 15:33	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

o-Terphenyl

[D] = 100\*(C-A) / B $\begin{array}{l} \text{[D]} & = 100^{+} \left[ (\text{C-E}) / (\text{C+E}) \right] \\ \text{[D]} & = 100^{+} (\text{C}) / [\text{B}] \\ \text{Log Diff.} & = \text{Log(Sample Duplicate)} - \text{Log(Original Sample)} \end{array}$  LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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**QC Summary** 640829

# WSP USA

PLU PC 28 Battery 2RP-5697

Analytical Method:	BTEX by EPA 8021B
	Didit of difference

**Environment Testing** 

Analytical Method: Seq Number: Parent Sample Id:	<b>BTEX by EPA 802</b> 3105707 641072-001	1B	MS Sar	Matrix: nple Id:		01 S			rep Metho Date Pr D Sample	ep: 10.2	5030B 28.2019 072-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.0728	73	0.0914	92	70-130	23	35	mg/kg	10.28.2019 16:13	
Toluene	< 0.00199	0.0996	0.0714	72	0.0839	84	70-130	16	35	mg/kg	10.28.2019 16:13	
Ethylbenzene	< 0.00199	0.0996	0.0620	62	0.0831	84	70-130	29	35	mg/kg	10.28.2019 16:13	Х
m,p-Xylenes	< 0.00398	0.199	0.123	62	0.167	84	70-130	30	35	mg/kg	10.28.2019 16:13	Х
o-Xylene	< 0.00199	0.0996	0.0606	61	0.0784	79	70-130	26	35	mg/kg	10.28.2019 16:13	Х
Surrogate				1S Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene			ç	97		99		70	-130	%	10.28.2019 16:13	
4-Bromofluorobenzene			9	99		111		70	-130	%	10.28.2019 16:13	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100\*(C-A) / B $\begin{array}{l} \text{[D]} & = 100^{+} \left[ (\text{C-E}) / (\text{C+E}) \right] \\ \text{[D]} & = 100^{+} (\text{C}) / [\text{B}] \\ \text{Log Diff.} & = \text{Log(Sample Duplicate)} - \text{Log(Original Sample)} \end{array}$  LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

X LABOR	ABORATORIES	Но	uston,TX (281) 240-420 idland.TX (432-704-54-	Chain of Custody 10 Dallas, TX (214) 902-0300 San Antonio, 10) EL Paso, TX (915)585-3443 Lubbock, T	Chain of Custody 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	Work Order No:	: U40829
		Hobbs,NM (578	5-392-7550) Phoenix,AZ ( Rill to: (if different)	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800)		Tampa,FL (813-620-2000) www.xenco.com Page	Page
Company Name:	I Environmente	entel, Inc.	Company Name:	Xto	Energy	Program: UST/PST PRP Brownfields RRC Superfund	fields RRC Su
	508 W. Stevens	4	Address:		Ĺ	State of Project:	
City, State ZIP:	Carlsbad, Nr	NM 88220	City, State ZIP:			Reporting:Level II XLevel III PST/UST TRRP Level IV	
Phone:	2		Email: Dan, Tacoma,	coma, Kalei, Caroli	urol, Rebecca	Deliverables: EDD X ADaPT	Other:
Name:	PLU PC 28 B	Batteria	Turn Around		ANALYSIS REQUEST	UEST	Work Order Notes
Project Number:	012919250	L	Routine X				
P.O. Number:			Rush:	~			
ne:	Kalei Jennine	G	Due Date:	Mo	3)		
SAMPLE RECEIPT	Te	Yes No W	Wet Ice: Yes No	180	30		
Temperature (°C):	1.0	Thermo	Thermometer ID	PF N8	.(*		
Received Intact:	No (S)	T-	0	(e (s)	de		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	actor: - 0. L	X H	ori		TAT starts the day received by the
	-	-		st Tp			
Sample Identification	ation Matrix	Date Time Sampled Sampled	ampled Depth	Numt B			Sample Comments
Ssol	S	10-22-19 13:15	15 0.5	XXX			
S502	S	10-22-19 13:20	20 0.5	X X X			
SS03	co	10-22-191 13:	13:25 0.5	××××			
j							
						7	
Total 200.7 / 6010 Circle Method(s) ar	otal     200.7 / 6010     200.8 / 6020:       Circle     Method(s) and Metal(s) to be analyzed	8RC	RA 13PPM Texas 11 TCLP / SPLP 6010: 8R(	11 AI Sb As Ba Be E 8RCRA Sb As Ba Be	3 Cd Ca Cr Co Cu Fe Cd Cr Co Cu Pb Mn	Mg Mn Mo Ni K Se Ag Sic Ni Se Ag Tl U	D2 Na Sr TI Sn U V Zn 1631/245.1/7470 /7471 : Hg
Notice: Signature of this docu of service. Xenco will be liabl of Xenco. A minimum charge	ument and relinquishment on the only for the cost of sample of \$75.00 will be applied to	of samples constitutes oles and shall not assu o each project and a cl	a valid purchase order fi me any responsibility for large of \$5 for each samp	rom client company to Xen any losses or expenses ir ple submitted to Xenco, bu	ICO, its affiliates and subcontractors. Incurred by the client if such losses and the such losses and the such losses are such as the such	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 \$7.00 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)	ignature)	Received by: (Signature)	ignature)	Date/Time	Relinquished by: (Signature	ature Received by: (Signature)	
Hennie	1	July 1		10/23/2019 12:2	132-200	Gerry	0/23/g
3 · U					6 + 1		
d					c	1 A LAND IN	Revised Date 051418 Rev. 2018.

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### **Inter-Office Shipment**

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### IOS Number 50712

Date/Time: 10/23/19 14:20

Created by: Elizabeth Mcclellan

Please send report to: Jessica Kramer

Lab# From: Carlsbad

Lab# To: Midland

Delivery Priority: Air Bill No.: 776797683616 Address: 1089 N Canal Street

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	РМ	Analytes	Sign
640829-001	S	SS01	10/22/19 13:15	SW8021B	BTEX by EPA 8021B	10/29/19	11/05/19	JKR	BR4FBZ BZ BZME EBZ X	
640829-001	S	SS01	10/22/19 13:15	SW8015MOD_NM	TPH by SW8015 Mod	10/29/19	11/05/19	JKR	GRO-DRO PHCC10C28 PH	
640829-001	S	SS01	10/22/19 13:15	E300_CL	Chloride by EPA 300	10/29/19	04/19/20	JKR	CL	
640829-002	S	SS02	10/22/19 13:20	SW8015MOD_NM	TPH by SW8015 Mod	10/29/19	11/05/19	JKR	GRO-DRO PHCC10C28 PH	
640829-002	S	SS02	10/22/19 13:20	SW8021B	BTEX by EPA 8021B	10/29/19	11/05/19	JKR	BR4FBZ BZ BZME EBZ X	
640829-002	S	SS02	10/22/19 13:20	E300_CL	Chloride by EPA 300	10/29/19	04/19/20	JKR	CL	
640829-003	S	SS03	10/22/19 13:25	SW8015MOD_NM	TPH by SW8015 Mod	10/29/19	11/05/19	JKR	GRO-DRO PHCC10C28 PH	
640829-003	S	SS03	10/22/19 13:25	SW8021B	BTEX by EPA 8021B	10/29/19	11/05/19	JKR	BR4FBZ BZ BZME EBZ X	
640829-003	S	SS03	10/22/19 13:25	E300_CL	Chloride by EPA 300	10/29/19	04/19/20	JKR	CL	

Inter Office Shipment or Sample Comments:

Relinquished By:

Elizabeth McClellan

Date Relinquished: 10/23/2019

Received By:

Brima Traf

Brianna Teel

Date Received: <u>10/24/2019 11:18</u>

Cooler Temperature: 0.6

# **XENCO** Laboratories

#### ABORATORIES Inter Office Report- Sample Receipt Checklist

Sent To: Midland IOS #: 50712

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Temperature Measuring device used : R8

Sent By:	Elizabeth McClellan	Date Sent:	10/23/2019 02:20 PM
Received By:	Brianna Teel	Date Received:	10/24/2019 11:18 AM

### Sample Receipt Checklist

Comments

.6
Yes
No
Yes

\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

NonConformance:

**Corrective Action Taken:** 

Contact:

**Nonconformance Documentation** 

Contacted by :

Date:

Checklist reviewed by:

Brianna Teel

Date: 10/24/2019



# **XENCO** Laboratories



### Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 10/23/2019 12:25:00 PM Temperature Measuring device used : T-NM-007 Work Order #: 640829 Comments Sample Receipt Checklist 1 #1 \*Temperature of cooler(s)? #2 \*Shipping container in good condition? Yes #3 \*Samples received on ice? Yes #4 \*Custody Seals intact on shipping container/ cooler? Yes #5 Custody Seals intact on sample bottles? Yes #6\*Custody Seals Signed and dated? Yes #7 \*Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinquished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes #16 All samples received within hold time? Yes #17 Subcontract of sample(s)? Yes Subbed to Xenco Midland. #18 Water VOC samples have zero headspace? N/A

#### \* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Elizabeth McClellan

Date: 10/23/2019

Checklist reviewed by: Jession, KRAMER

Jessica Kramer

Date: 10/24/2019

Environment Testing

012919250

Dan Moir

🔅 eurofins

Project Id:

**Project Location:** 

**Contact:** 

Xenco

# Certificate of Analysis Summary 645543

WSP USA, Dallas, TX

### Project Name: PLU PC 28 Battery 2RP-5697

 Date Received in Lab:
 Mon 12.09.2019 10:15

 Report Date:
 12.15.2020 10:02

Project Manager: Jessica Kramer

	Lab Id:	645543-0	001	645543-0	02	645543-0	003	645543-0	004	
Analysis Requested	Field Id:	BH01		BH01A	<b>`</b>	BH01B		BH01C		
Analysis Kequestea	Depth:	1- ft		2- ft		3- ft		4- ft		
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	
	Sampled:	12.05.2019	13:10	12.05.2019	13:25	12.05.2019	13:35	12.05.2019	13:50	
BTEX by EPA 8021B	Extracted:	12.09.2019	14:00	12.09.2019	14:00	12.09.2019	14:00	12.09.2019	14:00	
	Analyzed:	12.10.2019	01:15	12.10.2019	02:19	12.10.2019	02:38	12.10.2019	02:58	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		< 0.00199	0.00199	<0.00198	0.00198	< 0.00198	0.00198	< 0.00198	0.00198	
Toluene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00198	0.00198	
Ethylbenzene		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00198	0.00198	
m,p-Xylenes		< 0.00398	0.00398	< 0.00397	0.00397	< 0.00397	0.00397	< 0.00397	0.00397	
o-Xylene		< 0.00199	0.00199	<0.00198	0.00198	< 0.00198	0.00198	< 0.00198	0.00198	
Total Xylenes		< 0.00199	0.00199	<0.00198	0.00198	< 0.00198	0.00198	< 0.00198	0.00198	
Total BTEX		< 0.00199	0.00199	< 0.00198	0.00198	< 0.00198	0.00198	< 0.00198	0.00198	
Chloride by EPA 300	Extracted:	12.09.2019	17:14	12.09.2019	17:14	12.09.2019	17:14	12.09.2019	17:14	
	Analyzed:	12.09.2019	21:30	12.09.2019	21:49	12.09.2019	21:55	12.09.2019	22:01	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		4750	99.8	3970	99.2	1410	50.1	2910	101	
TPH by SW8015 Mod	Extracted:	12.09.2019	15:30	12.09.2019	15:30	12.09.2019	15:30	12.09.2019	17:00	
	Analyzed:	12.09.2019	23:32	12.09.2019	23:52	12.09.2019	23:52	12.10.2019	00:52	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<49.9	49.9	<50.0	50.0	<49.9	49.9	
Diesel Range Organics (DRO)		<50.2	50.2	<49.9	49.9	<50.0	50.0	52.0	49.9	
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<49.9	49.9	<50.0	50.0	<49.9	49.9	
Total GRO-DRO		<50.2	50.2	<49.9	49.9	<50.0	50.0	52.0	49.9	
Total TPH		<50.2	50.2	<49.9	49.9	<50.0	50.0	52.0	49.9	

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jession Vramer

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# Analytical Report 645543

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# for

# WSP USA

**Project Manager: Dan Moir** 

PLU PC 28 Battery 2RP-5697

### 012919250

### 12.15.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing Xenco

12.15.2020
Project Manager: Dan Moir
WSP USA
2777 N. Stemmons Freeway, Suite 1600
Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): 645543 PLU PC 28 Battery 2RP-5697 Project Address:

### Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 645543. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 645543 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

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Jessica Kramer Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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# Sample Cross Reference 645543

### WSP USA, Dallas, TX

PLU PC 28 Battery 2RP-5697

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH01	S	12.05.2019 13:10	1 ft	645543-001
BH01A	S	12.05.2019 13:25	2 ft	645543-002
BH01B	S	12.05.2019 13:35	3 ft	645543-003
BH01C	S	12.05.2019 13:50	4 ft	645543-004

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### **CASE NARRATIVE**

Client Name: WSP USA Project Name: PLU PC 28 Battery 2RP-5697

 Project ID:
 012919250

 Work Order Number(s):
 645543

 Report Date:
 12.15.2020

 Date Received:
 12.09.2019

#### Sample receipt non conformances and comments:

V1.001 Revision - Revised report and invoice to reflect correct project name and number. Sample ID is BH01 not BH11 New version generated. JK 12/11/19 V1.002 Revision - Changed client name from LT Environmental to WSP USA JK 12/15/20

#### Sample receipt non conformances and comments per sample:

None

#### Analytical non conformances and comments:

Batch: LBA-3109895 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

### Batch: LBA-3109908 Chloride by EPA 300

Lab Sample ID 645558-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 645543-001, -002, -003, -004. The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

# **Certificate of Analytical Results 645543**

# WSP USA, Dallas, TX

PLU PC 28 Battery 2RP-5697

Sample Id: <b>BH01</b> Lab Sample Id: 645543-001		Matrix Date C	Soil Soil Soil	5.2019 13:10		Date Received:12.0 Sample Depth: 1 ft	9.2019 10	:15
Analytical Method: Chloride by EP.	A 300					Prep Method: E30	0P	
Tech: MAB								
Analyst: MAB		Date P	rep: 12.09	0.2019 17:14		% Moisture: Basis: Wet	W/-:-1-4	
Seq Number: 3109908			-			Dasis. Wet	Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4750	99.8		mg/kg	12.09.2019 21:30		10
Analytical Method: TPH by SW801 Tech: DTH Analyst: DTH Seq Number: 3109933	5 Mod	Date P	rep: 12.09	9.2019 15:30		Prep Method: SW8 % Moisture: Basis: Wet	8015P Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	12.09.2019 23:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2		mg/kg	12.09.2019 23:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2		mg/kg	12.09.2019 23:32	U	1
Total GRO-DRO	PHC628	<50.2	50.2		mg/kg	12.09.2019 23:32	U	1
Total TPH	PHC635	<50.2	50.2		mg/kg	12.09.2019 23:32	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	98	%	70-135	12.09.2019 23:32		
o-Terphenyl		84-15-1	108	%	70-135	12.09.2019 23:32		

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# **Certificate of Analytical Results 645543**

# WSP USA, Dallas, TX

12.09.2019 14:00

Basis:

Wet Weight

PLU PC 28 Battery 2RP-5697

Sample Id:         BH01           Lab Sample Id:         645543-001	Matrix: Soil Date Collected: 12.05.2019 13:10	Date Received:12.09.2019 10:15 Sample Depth: 1 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: MAB	Dete Dram. 12.00.2010.14:00	% Moisture:

Date Prep:

Analyst: MAB Seq Number: 3109895

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	12.10.2019 01:15	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	12.10.2019 01:15	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	12.10.2019 01:15	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	12.10.2019 01:15	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	12.10.2019 01:15	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	12.10.2019 01:15	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	12.10.2019 01:15	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	123	%	70-130	12.10.2019 01:15		
1,4-Difluorobenzene		540-36-3	102	%	70-130	12.10.2019 01:15		

# **Certificate of Analytical Results 645543**

# WSP USA, Dallas, TX

PLU PC 28 Battery 2RP-5697

Sample Id: <b>BH01A</b> Lab Sample Id: 645543-002		Matrix: Date C	Soil Soil Soil	5.2019 13:25		Date Received:12.0 Sample Depth: 2 ft	Date Received:12.09.2019 10:15 Sample Depth: 2 ft		
Analytical Method: Chloride by EP.	A 300					Prep Method: E300	)P		
Tech: MAB						1			
Analyst: MAB		Date Pr	ren: 12.09	0.2019 17:14		% Moisture:			
Seq Number: 3109908		241011	-P.			Basis: Wet	Weight		
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	3970	99.2		mg/kg	12.09.2019 21:49		10	
Analytical Method: TPH by SW801 Tech: DTH Analyst: DTH Seq Number: 3109933	5 Mod	Date Pr	rep: 12.09	9.2019 15:30		Prep Method: SW8 % Moisture: Basis: Wet	8015P Weight		
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil	
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	12.09.2019 23:52	U	1	
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	12.09.2019 23:52	U	1	
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	12.09.2019 23:52	U	1	
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	12.09.2019 23:52	U	1	
Total TPH	PHC635	<49.9	49.9		mg/kg	12.09.2019 23:52	U	1	
Surrogate		Cas Number	% Recovery	Units	Limits	s Analysis Date	Flag		
1-Chlorooctane		111-85-3	108	%	70-135	12.09.2019 23:52			
o-Terphenyl		84-15-1	112	%	70-135	12.09.2019 23:52			

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# **Certificate of Analytical Results 645543**

# WSP USA, Dallas, TX

Basis:

Wet Weight

PLU PC 28 Battery 2RP-5697

Sample Id:BH01ALab Sample Id:645543-002	Matrix: Soil Date Collected: 12.05.2019 13:25	Date Received:12.09.2019 10:15 Sample Depth: 2 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: MAB		
Analyst: MAB	Date Prep: 12.09.2019 14:00	% Moisture: Basis: Wat Waight

Analyst: MAB Seq Number: 3109895

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	12.10.2019 02:19	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	12.10.2019 02:19	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	12.10.2019 02:19	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	12.10.2019 02:19	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	12.10.2019 02:19	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	12.10.2019 02:19	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	12.10.2019 02:19	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	111	%	70-130	12.10.2019 02:19		
1,4-Difluorobenzene		540-36-3	103	%	70-130	12.10.2019 02:19		

# **Certificate of Analytical Results 645543**

# WSP USA, Dallas, TX

PLU PC 28 Battery 2RP-5697

Sample Id: <b>BH01B</b> Lab Sample Id: 645543-003		Matrix: Date Co	Soil ollected: 12.05	5.2019 13:35		Date Received:12.09 Sample Depth: 3 ft	Date Received:12.09.2019 10:15 Sample Depth: 3 ft		
Analytical Method: Chloride by EP.	A 300					Prep Method: E300	)P		
Tech: MAB						1			
Analyst: MAB		Date Pr	en: 12.09	0.2019 17:14		% Moisture:			
Seq Number: 3109908		Duteri	ср			Basis: Wet	Weight		
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	1410	50.1		mg/kg	12.09.2019 21:55		5	
Analytical Method: TPH by SW801 Tech: DTH Analyst: DTH Seq Number: 3109933	5 Mod	Date Pr	ep: 12.09	9.2019 15:30		Prep Method: SW8 % Moisture: Basis: Wet	015P Weight		
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil	
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	12.09.2019 23:52	U	1	
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0		mg/kg	12.09.2019 23:52	U	1	
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	12.09.2019 23:52	U	1	
Total GRO-DRO	PHC628	<50.0	50.0		mg/kg	12.09.2019 23:52	U	1	
Total TPH	PHC635	<50.0	50.0		mg/kg	12.09.2019 23:52	U	1	
Surrogate		Cas Number	% Recovery	Units	Limits	s Analysis Date	Flag		
1-Chlorooctane		111-85-3	101	%	70-135	12.09.2019 23:52			
o-Terphenyl		84-15-1	112	%	70-135	12.09.2019 23:52			

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# **Certificate of Analytical Results 645543**

# WSP USA, Dallas, TX

12.09.2019 14:00

Basis:

Wet Weight

PLU PC 28 Battery 2RP-5697

Sample Id: Lab Sample	<b>BH01B</b> Id: 645543-003	Matrix: Date Collecte	Soil d: 12.05.2019 13:35	Date Received:12.09.2019 10:15 Sample Depth: 3 ft
Analytical M	ethod: BTEX by EPA 8021B			Prep Method: SW5030B
Tech:	MAB MAB	Data Prop	12 09 2019 14:00	% Moisture:

Date Prep:

Analyst: MAB Seq Number: 3109895

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	12.10.2019 02:38	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	12.10.2019 02:38	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	12.10.2019 02:38	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	12.10.2019 02:38	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	12.10.2019 02:38	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	12.10.2019 02:38	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	12.10.2019 02:38	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	113	%	70-130	12.10.2019 02:38		
1,4-Difluorobenzene		540-36-3	100	%	70-130	12.10.2019 02:38		

# **Certificate of Analytical Results 645543**

# WSP USA, Dallas, TX

PLU PC 28 Battery 2RP-5697

Sample Id: <b>BH01C</b> Lab Sample Id: 645543-004		Matrix: Date Co	Soil ollected: 12.05	5.2019 13:50		Date Received:12.09 Sample Depth: 4 ft	9.2019 10:	15
Analytical Method: Chloride by EP	A 300					Prep Method: E300	)P	
Tech: MAB						I		
Analyst: MAB		Date Pr	en: 12.09	0.2019 17:14		% Moisture:		
Seq Number: 3109908		200011	ep.			Basis: Wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2910	101		mg/kg	12.09.2019 22:01		10
Analytical Method: TPH by SW801 Tech: DTH Analyst: DTH Seq Number: 3109944	5 Mod	Date Pr	rep: 12.09	9.2019 17:00		Prep Method: SW8 % Moisture: Basis: Wet	015P Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	12.10.2019 00:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	52.0	49.9		mg/kg	12.10.2019 00:52		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	12.10.2019 00:52	U	1
Total GRO-DRO	PHC628	52.0	49.9		mg/kg	12.10.2019 00:52		1
Total TPH	PHC635	52.0	49.9		mg/kg	12.10.2019 00:52		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	104	%	70-135	12.10.2019 00:52		
				70				

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# **Certificate of Analytical Results 645543**

# WSP USA, Dallas, TX

12.09.2019 14:00

Basis:

Wet Weight

PLU PC 28 Battery 2RP-5697

Sample Id:BH01CLab Sample Id:645543-004	Matrix: Soil Date Collected: 12.05.2019 13:50	Date Received:12.09.2019 10:15 Sample Depth: 4 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: MAB	Deta Dram. 12.00.2010.14:00	% Moisture:

Date Prep:

Analyst: MAB Seq Number: 3109895

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198	0.00198		12.10.2019 02:58	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	12.10.2019 02:58	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198	).00198		12.10.2019 02:58	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	12.10.2019 02:58	U	1
o-Xylene	95-47-6	< 0.00198	0.00198	0.00198		12.10.2019 02:58	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198	0.00198		12.10.2019 02:58	U	1
Total BTEX		<0.00198	0.00198		mg/kg	12.10.2019 02:58	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	103	%	70-130	12.10.2019 02:58		
4-Bromofluorobenzene		460-00-4	119	%	70-130	12.10.2019 02:58		

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# **Flagging Criteria**

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected.								
RL Reporting Limit									
MDL Method Detection Limit	SDL Sample Detection Limit		LOD Limit of Detection						
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitation						
DL Method Detection Limit									
NC Non-Calculable									
SMP Client Sample		BLK	Method Blank						
BKS/LCS Blank Spike/Laboratory Control Sample		BKSD/LCSD	Blank Spike Duplicate/Laboratory Control Sample Du						
MD/SD Method Duplicate/Sample Duplicate		MS	Matrix Spike	MSD: Matrix Spike Duplicate					
+ NELAC certification not offered	l for this compound.								

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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**Environment Testing** 

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#### **QC Summary** 645543

# WSP USA

PLU PC 28 Battery 2RP-5697

				1.		20 Datte	1 y 2 KI	-3077					
<b>Analytical Method:</b> Seq Number:	3109908	-	)0		Matrix:					ep Meth Date Pr	rep: 12.0	)9.2019	
MB Sample Id:	7692028-1				-	7692028-				-		2028-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	261	104		104	90-110	0	20	mg/kg	12.09.2019 21:18	
Analytical Method:		oy EPA 3(	)0						Pı	ep Meth			
Seq Number:	3109908				Matrix:		21.0			Date Pr	-	)9.2019	
Parent Sample Id:	645543-00	1			•	645543-0	)1 S			-		543-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		4750	199	4860	55	4840	45	90-110	0	20	mg/kg	12.09.2019 21:36	Х
Analytical Method:	Chloride b	oy EPA 3(	)0						Pı	ep Meth	od: E30	00P	
Seq Number:	3109908	-			Matrix:	Soil				Date Pr		09.2019	
Parent Sample Id:	645558-00	1		MS Sar	nple Id:	645558-0	01 S		MS	D Sampl	e Id: 645	558-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		547	200	765	109	768	111	90-110	0	20	mg/kg	12.09.2019 22:33	Х
Analytical Method: Seq Number:	<b>TPH by S</b> 3109933	W8015 M	od		Matrix:	Solid			Pı	ep Meth Date Pr		8015P )9.2019	
MB Sample Id:	7692045-1	-BLK				7692045-	1-BKS		LCS		-	2045-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo Diesel Range Organics (		<13.9 <11.5	1000 1000	996 1110	100 111	999 1050	100 105	70-135 70-135	0 6	35 35	mg/kg mg/kg	12.09.2019 19:49 12.09.2019 19:49	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date	
1-Chlorooctane		106	_	1	21	-	119		70	-135	%	12.09.2019 19:49	
o-Terphenyl		108		1	24		112		70	-135	%	12.09.2019 19:49	
Analytical Method: Seq Number:	<b>TPH by S</b> 3109944	W8015 M	od		Matrix:					ep Meth Date Pr	ep: 12.0	8015P )9.2019	
MB Sample Id:	7692044-1	-BLK		LCS Sar	nple Id:	7692044-	1-BKS		LCS	D Sample	e Id: 769	2044-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo		<50.0	1000	1060	106		98	70-135	8	35	mg/kg	12.10.2019 00:32	
Diesel Range Organics (	(DRO)	<50.0	1000	1100	110	1090	109	70-135	1	35	mg/kg	12.10.2019 00:32	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date	
1-Chlorooctane		105			27		118			-135	%	12.10.2019 00:32	
o-Terphenyl		113		1	20		121		70	-135	%	12.10.2019 00:32	
MS/MSD Percent Recover Relative Percent Differenc LCS/LCSD Recovery Log Difference	e R	D] = 100 * (0)	(C-E) / (C+E)		(Original )	Sample)	A C	CS = Labora = Parent Re = MS/LCS = MSD/LC	esult Result	ol Sample	$B = S_I$	Matrix Spike pike Added SD/LCSD % Rec	

Released to Imaging: 4/8/2021 3:32:01 PM

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### QC Summary 645543

#### WSP USA PC 28 Battery 2RP-569

PLU PC 28 Battery 2RP-5697

		Prep Method: Date Prep:			
MB Result		I	Units	Analysis Date	Flag
<50.0		г	mg/kg	12.09.2019 19:49	
		1			
MB Result	7692044-1-BLK			<b>Analysis</b> <b>Date</b>	Flag
	MB Sample Id: MB Result <50.0 Matrix: MB Sample Id: MB	Result <50.0 Matrix: Solid MB Sample Id: 7692044-1-BLK MB Result	Matrix: Solid Date Prep: MB Sample Id: 7692045-1-BLK MB Result <50.0 Prep Method: Matrix: Solid Date Prep: MB Sample Id: 7692044-1-BLK MB Result	Matrix: Solid Date Prep: 12.0 MB Sample Id: 7692045-1-BLK MB Units Result <50.0 mg/kg Prep Method: SW8 Date Prep: 12.0 MB Sample Id: 7692044-1-BLK MB Units Result Units	Matrix: Solid Date Prep: 12.09.2019 MB Sample Id: 7692045-1-BLK MB Lunits Analysis Result 0 <50.0 mg/kg 12.09.2019 19:49 Prep Method: SW8015P Date Prep: 12.09.2019 MB Sample Id: 7692044-1-BLK MB Lunits Analysis Result 0 MB Lunits Analysis Date 0 MB Lunits MB Lunits Analysis MB Lunits MB Lunits MB Lunits MB LUNITS LUN

SW8015P Analytical Method: TPH by SW8015 Mod Prep Method: Seq Number: 3109933 Matrix: Soil Date Prep: 12.09.2019 MS Sample Id: 645527-020 S MSD Sample Id: 645527-020 SD Parent Sample Id: 645527-020 RPD Spike MS MS %RPD Units Analysis Parent MSD MSD Limits Flag Parameter Limit Result Result %Rec Date Amount Result %Rec Gasoline Range Hydrocarbons (GRO) <13.9 1000 985 99 957 96 70-135 3 35 12.09.2019 20:29 mg/kg Diesel Range Organics (DRO) <11.5 1000 1020 102 1060 70-135 4 35 12.09.2019 20:29 106 mg/kg MS MS MSD MSD Limits Units Analysis Surrogate Flag Flag %Rec %Rec Date 12.09.2019 20:29 1-Chlorooctane 122 116 70-135 % o-Terphenyl 115 118 70-135 % 12.09.2019 20:29

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>TPH by S</b> 3109944 645543-00		od	Prep Method:SW801Matrix:SoilDate Prep:MS Sample Id:645543-004 SMSD Sample Id:645543645543							9.2019		
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	< 50.0	999	993	99	986	99	70-135	1	35	mg/kg	12.10.2019 10:50	
Diesel Range Organics	(DRO)	52.0	999	1180	113	1250	120	70-135	6	35	mg/kg	12.10.2019 10:50	
Surrogate					IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1-Chlorooctane				1	22		118		70	-135	%	12.10.2019 10:50	
o-Terphenyl				1	18		121		70	-135	%	12.10.2019 10:50	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $\begin{array}{l} [D] = 100^{*}(C\text{-A}) \ / \ B \\ RPD = 200^{*} \ | \ (C\text{-E}) \ / \ (C\text{+E}) \ | \\ [D] = 100^{*} \ (C) \ / \ [B] \\ Log \ Diff. = Log (Sample \ Duplicate) \ - \ Log (Original \ Sample) \end{array}$ 

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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### QC Summary 645543

eurofins Environment Testing Xenco

# WSP USA

PLU PC 28 Battery 2RP-5697

Analytical Method:	BTEX by EPA 8021	lB						Р	rep Meth	od: SW						
Seq Number:	3109895		]	Matrix:	Solid				Date Pr	ep: 12.0	9.2019					
MB Sample Id:	7692023-1-BLK		LCS San	nple Id:	7692023-	1-BKS		LCSD Sample Id: 7692023-1-BSD								
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag				
Benzene	< 0.00200	0.100	0.0877	88	0.0960	96	70-130	9	35	mg/kg	12.09.2019 20:41					
Toluene	< 0.00200	0.100	0.0898	90	0.0982	98	70-130	9	35	mg/kg	12.09.2019 20:41					
Ethylbenzene	< 0.00200	0.100	0.0889	89	0.0971	97	71-129	9	35	mg/kg	12.09.2019 20:41					
m,p-Xylenes	< 0.00400	0.200	0.189	95	0.206	103	70-135	9	35	mg/kg	12.09.2019 20:41					
o-Xylene	< 0.00200	0.100	0.0963	96	0.105	105	71-133	9	35	mg/kg	12.09.2019 20:41					
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSD %Rec			imits	Units	Analysis Date					
1,4-Difluorobenzene	101		1	02		103		70	)-130	%	12.09.2019 20:41					
4-Bromofluorobenzene	109		1	20		118		70	)-130	%	12.09.2019 20:41					

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 8021</b> 3109895 645527-023	B		Matrix: nple Id:	Soil 645527-02	23 S		Prep Method:         SW5030B           Date Prep:         12.09.2019           MSD Sample Id:         645527-023 SD					
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
Benzene	< 0.00199	0.0994	0.101	102	0.0951	94	70-130	6	35	mg/kg	12.09.2019 21:19		
Toluene	< 0.00199	0.0994	0.102	103	0.0967	96	70-130	5	35	mg/kg	12.09.2019 21:19		
Ethylbenzene	< 0.00199	0.0994	0.0998	100	0.0947	94	71-129	5	35	mg/kg	12.09.2019 21:19		
m,p-Xylenes	< 0.00398	0.199	0.210	106	0.200	99	70-135	5	35	mg/kg	12.09.2019 21:19		
o-Xylene	< 0.00199	0.0994	0.108	109	0.103	102	71-133	5	35	mg/kg	12.09.2019 21:19		
Surrogate				1S Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date		
1,4-Difluorobenzene			1	04		103		70	-130	%	12.09.2019 21:19		
4-Bromofluorobenzene			1	19		122		70	-130	%	12.09.2019 21:19		

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Relinquished by: (Signature)	tice: Signature of this docume service. Xenco will be liable o Xenco. A minimum charge of t	Total         200.7 / 6010         200.8 / 6020:         8           Circle         Method(s)         and         Metal(s)         to be analyzed         8					/	BHILC	BHIB	BHILA	641	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name:	P.O. Number:	Project Number:	Project Name:	Phone: (43)	ate ZIP:		Company Name: LT I	Project Manager: Dar	
nature) Rec	nt and relinquishment of s nly for the cost of samples \$75.00 will be applied to ea	200.8 / 6020: 1 Metal(s) to be ana						5	S	7	7	tion Matrix	Yes (No) N/A	Yes No NIA	es N	1.0	Temp Blank:	Spencer Lo		61 1918 of 2	PLUCUY SU PC 00	(432) 236-3849	Midland, TX 79705	3300 North A Street	LT Environmental, Inc.,	Dan Moir	<b>ABORATORIES</b>
Received by: (Signature)	amples constitutes a vi and shall not assume a ch project and a charg	8RCRA 1 lyzed TCLP /						125.14 1350	12.5.49 1335	12.5.19 1325	12-5-19 1310	Sampled Sampled	otal Co	Correction Factor:	TT	Thermo	Yes No Wi	Б			003H				Permian office		Hobbs,NM (5
jnature)	alid purchase order fror any responsibility for a e of \$5 for each sample	CRA 13PPM Texas 11 AI TCLP / SPLP 6010: 8RCRA		Ju	1	>		4	2	1	1	ne Depth	iners: A	actor: -0-7	MOOT	E.	Wet Ice: Yes No	Due Date:	Rush: 24#	Routine	Turn Around	Email: slo@ltenv.com	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	louston,TX (281) 240- Midland,TX (432-704- 75-392-7550) Phoeni
Date/Time	n client company to Xenco, it ny losses or expenses incurri submitted to Xenco, but not	Al Sb As Ba Be CRA Sb As Ba Be			1			K & V I	X X X I	X X + I	1 X Y X	Numl TPH (I BTEX Chlori	EPA 8 (EPA	015) 0=8	021)		S					om, dmoir@ltenv.com	IP: Carlsbad, NM 88220		ame: XTO Energy	rent) Kyle Littrell	4200 Dallas,TX (214) 902-0300 San Antonio, 5440) EL Paso,TX (915)585-3443 Lubbock,T x,AZ (480-355-0900) Atlanta,GA (770-449-88
Relinquished by: (Signature) 2 {{{}}	ts affiliates and subcontractors. It a ed by the client if such losses are du analyzed. These terms will be enfor	Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U														,					ANALYSIS REQUEST		8220	en Street			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)
nature) Received by: (Signature)	d conditions nd the control otiated.	g SiC																			QUEST	1	Reporting:Level IIevel IIIST/UST		Program: UST/PST _PRP _Brownfields		3334 296 L (813-620-2000) <u>www.xenco.com</u>
) Date/Time		)2 Na Sr TI Sn U V Zn 1631/245.1/7470/7471:Ho										Sample Comments	IAI starts the day received by the lab, if received by 4:30pm								Work Order Notes	Other:	UST RRP [level IV		fields RRC nuperfund		Page ( of

Final 1.002

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**Environment Testing** 

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Xenco

#### Project Id: 012919250 Dan Moir

**Contact:** 

#### **Project Location:**

## Certificate of Analysis Summary 645546

### WSP USA, Dallas, TX

### Project Name: PLU PC 28 Battery 2RP-5697

Date Received in Lab: Mon 12.09.2019 10:15 **Report Date:** 12.15.2020 10:10

Project Manager: Jessica Kramer

	Lab Id:	645546-001			
Analysis Requested	Field Id:	SW04			
Anuiysis Kequesieu	Depth:	0-5 ft			
	Matrix:	SOIL			
	Sampled:	12.06.2019 13:20			
BTEX by EPA 8021B	Extracted:	12.09.2019 14:00			
	Analyzed:	12.10.2019 03:36			
	Units/RL:	mg/kg RL			
Benzene		<0.00198 0.00198			
Toluene		<0.00198 0.00198			
Ethylbenzene		<0.00198 0.00198			
m,p-Xylenes		<0.00397 0.00397			
o-Xylene		<0.00198 0.00198			
Total Xylenes		<0.00198 0.00198			
Total BTEX		<0.00198 0.00198			
Chloride by EPA 300	Extracted:	12.09.2019 16:10			
	Analyzed:	12.09.2019 20:30			
	Units/RL:	mg/kg RL			
Chloride		352 9.88			
TPH by SW8015 Mod	Extracted:	12.09.2019 17:00			
	Analyzed:	12.10.2019 01:13			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0			
Diesel Range Organics (DRO)		<50.0 50.0			
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0			
Total GRO-DRO		<50.0 50.0			
Total TPH		<50.0 50.0			

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jession Vramer

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# **Analytical Report 645546**

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for

## WSP USA

**Project Manager: Dan Moir** 

PLU PC 28 Battery 2RP-5697

### 012919250

### 12.15.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing Xenco

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

Reference: Eurofins Xenco, LLC Report No(s): 645546 PLU PC 28 Battery 2RP-5697 Project Address:

### Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 645546. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 645546 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

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Jessica Kramer Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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## Sample Cross Reference 645546

### WSP USA, Dallas, TX

PLU PC 28 Battery 2RP-5697

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW04	S	12.06.2019 13:20	0 - 5 ft	645546-001

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### **CASE NARRATIVE**

Client Name: WSP USA Project Name: PLU PC 28 Battery 2RP-5697

 Project ID:
 012919250

 Work Order Number(s):
 645546

 Report Date:
 12.15.2020

 Date Received:
 12.09.2019

### Sample receipt non conformances and comments:

Revised report and invoice to reflect correct project name and number. New version generated. JK 12/11/19 V1.002 Revision - Changed client name from LT Environmental to WSP USA JK 12/15/20

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3109895 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

## **Certificate of Analytical Results 645546**

## WSP USA, Dallas, TX

PLU PC 28 Battery 2RP-5697

Sample Id: <b>SW04</b> Lab Sample Id: 645546-001		Matrix Date C	Soil Soil		Date Received:12.0 Sample Depth: 0 - 5		:15	
Analytical Method: Chloride by EP	A 300					Prep Method: E30	0P	
Tech: MAB								
Analyst: MAB		Date Pr	rep: 12.09	9.2019 16:10		% Moisture: Basis: Wet	Weight	
Seq Number: 3109906						Dasis. Wet	weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	352	9.88		mg/kg	12.09.2019 20:30		1
Analytical Method: TPH by SW801 Tech: DTH Analyst: DTH Seq Number: 3109944	15 Mod	Date Pr	rep: 12.09	9.2019 17:00		Prep Method: SW8 % Moisture: Basis: Wet	8015P Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	12.10.2019 01:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0		mg/kg	12.10.2019 01:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	12.10.2019 01:13	U	1
Total GRO-DRO	PHC628	<50.0	50.0		mg/kg	12.10.2019 01:13	U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	12.10.2019 01:13	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	s Analysis Date	Flag	
1-Chlorooctane		111-85-3	103	%	70-135	12.10.2019 01:13		
o-Terphenyl		84-15-1	113	%	70-135	12.10.2019 01:13		

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# **Certificate of Analytical Results 645546**

## WSP USA, Dallas, TX

PLU PC 28 Battery 2RP-5697

12.09.2019 14:00

% Moisture:

Wet Weight

Basis:

Sample Id: SW04	Matrix: Soil	Date Received:12.09.2019 10:15
Lab Sample Id: 645546-001	Date Collected: 12.06.2019 13:20	Sample Depth: 0 - 5 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B

Date Prep:

Tech:MABAnalyst:MABSeq Number:3109895

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	12.10.2019 03:36	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	12.10.2019 03:36	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	12.10.2019 03:36	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	12.10.2019 03:36	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	12.10.2019 03:36	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	12.10.2019 03:36	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	12.10.2019 03:36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	95	%	70-130	12.10.2019 03:36		
4-Bromofluorobenzene		460-00-4	117	%	70-130	12.10.2019 03:36		

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**Environment Testing** 

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## **Flagging Criteria**

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Sam	ple Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	l for this compound.			

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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**Environment Testing** 

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### QC Summary 645546

## WSP USA

PLU PC 28 Battery 2RP-5697

<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>Chloride b</b> 3109906 7692026-1-	-	00	LCS Sar	Matrix: nple Id:	Solid 7692026-1	1-BKS		LCS	-	ep: 12.0 e Id: 769	0P )9.2019 2026-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	260	104	263	105	90-110	1	20	mg/kg	12.09.2019 18:00	
Analytical Method: Seq Number:	Chloride by 3109906	y EPA 30	00		Matrix:	Soil			Pr	rep Metho Date Pr		0P 09.2019	
Parent Sample Id:	645522-001					645522-00	01 S		MS		-	522-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		6.14	199	210	102	209	102	90-110	0	20	mg/kg	12.09.2019 18:17	
<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>Chloride b</b> 3109906 645537-003	-	00		Matrix: nple Id:	Soil 645537-00	03 S			rep Methe Date Pr D Sample	ep: 12.0	0P )9.2019 537-003 SD	
-		Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	Flag
Parameter		Result	Amount	Result	%Rec	Result	%Rec			Limit		Date	riag
Chloride		110	199	327	109	328	110	90-110	0	20	mg/kg	12.09.2019 19:38	
<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>TPH by SV</b> 3109944 7692044-1-1		od		Matrix: nple Id:	Solid 7692044-1	1-BKS			rep Methe Date Pr D Sample	ep: 12.0	8015P )9.2019 2044-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<50.0	1000	1060	106	<b>Kesuit</b> 977	7 <b>6 Ket</b> 98	70-135	8	35	mg/kg	12.10.2019 00:32	
Diesel Range Organics	(DRO)	< 50.0	1000	1100	110	1090	109	70-135	1	35	mg/kg	12.10.2019 00:32	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		105			27		118			-135	%	12.10.2019 00:32	
o-Terphenyl		113		1	20		121		70	-135	%	12.10.2019 00:32	
Analytical Method: Seq Number:	<b>TPH by SV</b> 3109944	V8015 M	od		Matrix: nple Id:	Solid 7692044-	1-BLK		Pi	rep Meth Date Pr		8015P )9.2019	
Parameter				MB Begult							Units	Analysis	Flag
Motor Oil Range Hydrocar	bons (MRO)			Result <50.0							mg/kg	Date 12.10.2019 00:12	
											00		

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $\label{eq:c-A} \begin{array}{l} [D] = 100^{*}(C\text{-}A) \ / \ B \\ RPD = 200^{*} \ | \ (C\text{-}E) \ / \ (C\text{+}E) \ | \\ [D] = 100^{*} \ (C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.

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Xenco

**Environment Testing** 

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QC Summary 645546

## WSP USA

PLU PC 28 Battery 2RP-5697

Analytical Method:	TPH by S	W8015 M	od						Pı	ep Meth	od: SW	8015P	
Seq Number:	3109944			]	Matrix:	Soil				Date Pr	ep: 12.0	9.2019	
Parent Sample Id:	645543-00	4		MS San	nple Id:	645543-00	04 S		MS	D Sample	e Id: 645	543-004 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	< 50.0	999	993	99	986	99	70-135	1	35	mg/kg	12.10.2019 10:50	
Diesel Range Organics	(DRO)	52.0	999	1180	113	1250	120	70-135	6	35	mg/kg	12.10.2019 10:50	
Surrogate					IS Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane				1	22		118		70	-135	%	12.10.2019 10:50	
o-Terphenyl				1	18		121		70	-135	%	12.10.2019 10:50	

Analytical Method:	BTEX by EPA 8021	B						P	rep Meth	od: SW	5030B	
Seq Number:	3109895		]	Matrix:	Solid				Date Pr	ep: 12.0	9.2019	
MB Sample Id:	7692023-1-BLK		LCS San	nple Id:	7692023-	1-BKS		LCS	D Sample	e Id: 769	2023-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0877	88	0.0960	96	70-130	9	35	mg/kg	12.09.2019 20:41	
Toluene	< 0.00200	0.100	0.0898	90	0.0982	98	70-130	9	35	mg/kg	12.09.2019 20:41	
Ethylbenzene	< 0.00200	0.100	0.0889	89	0.0971	97	71-129	9	35	mg/kg	12.09.2019 20:41	
m,p-Xylenes	< 0.00400	0.200	0.189	95	0.206	103	70-135	9	35	mg/kg	12.09.2019 20:41	
o-Xylene	< 0.00200	0.100	0.0963	96	0.105	105	71-133	9	35	mg/kg	12.09.2019 20:41	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	101		1	02		103		70	-130	%	12.09.2019 20:41	
4-Bromofluorobenzene	109		1	20		118		70	-130	%	12.09.2019 20:41	

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 8021</b> 3109895 645527-023	lB		Matrix: nple Id:	Soil 645527-02	23 S			rep Methe Date Pr D Sample	ep: 12.0	5030B )9.2019 527-023 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0994	0.101	102	0.0951	94	70-130	6	35	mg/kg	12.09.2019 21:19	
Toluene	< 0.00199	0.0994	0.102	103	0.0967	96	70-130	5	35	mg/kg	12.09.2019 21:19	
Ethylbenzene	< 0.00199	0.0994	0.0998	100	0.0947	94	71-129	5	35	mg/kg	12.09.2019 21:19	
m,p-Xylenes	< 0.00398	0.199	0.210	106	0.200	99	70-135	5	35	mg/kg	12.09.2019 21:19	
o-Xylene	< 0.00199	0.0994	0.108	109	0.103	102	71-133	5	35	mg/kg	12.09.2019 21:19	
Surrogate				1S Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	04		103		70	-130	%	12.09.2019 21:19	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

4-Bromofluorobenzene

 $\label{eq:c-A} \begin{array}{l} [D] = 100^{*}(C\text{-}A) \ / \ B \\ RPD = 200^{*} \ | \ (C\text{-}E) \ / \ (C\text{+}E) \ | \\ [D] = 100^{*} \ (C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

122

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.

12.09.2019 21:19

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119

70-130

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	Houston,TX (281) 240-420 Midland,TX (432-704-544 35,NM (575-392-7550) Phoenix,A	0 Dallas,TX (214) 902-0300 S 40) EL Paso,TX (915)585-3443 Z (480-355-0900) Atlanta,GA (7	an Antonio,TX (210) 509-3334 Lubbock,TX (806)794-1296 770-449-8800) Tampa,FL (813-6		
Dan Moir	Bill to: (if differen	t) Kyle Littrell	70-449-8800) Tampa,FL (813-6	W	Page
nvironmental, Inc., Permian					mments
3300 North A Street					Ids RRC
Midland, TX 79705	City, State ZIP:	Carlsbad. NM 88220		Demontional avail 11 Travel 111 Travel	
(432) 236-3849	Email: slo@ltenv.com	.dmoir@ltenv.com			
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C. 623 H     Turm Around       01.91 8 0 ° 2     Rush: 244       Spencer Lo     Due Date:       PT     Temp Blank:     (res) No       Ves     No     Notice       Ves     No     No       Teation     Matrix     Sampled       Spencer:     12 - 4-17     Orscill Containers:     1       Teation     Matrix     Sampled     Depth       Trans Recta     13 Depth     Sampled     Depth       7     13 - 4-17     13 Depth     Sampled       7     15 - 17     13 Depth     Sampled       8     RCRA     13 DPM     Texast 1       7     &lt;</td> <td>Moir     Houston, TX (281) 240-4200     Dallas, TX (214) 902-000 o S.       Moir     Midland TX (282) 704-6400)     EL Paso, TX (215) 905-0440       Hobbs, MM (375-382-7550)     Phoemi, AZ (480-355-0400)     Alama, GA, O       Morr     Ernall     Company, Vane:     XTO Energy       North A Street     Carlsbad, MM 8220     Spencer Lo     City, State ZiP:     Carlsbad, MM 88220       236-3849     Ernall     Suboliterius, Company, Vane:     Turn Around       01:97 18 of 1     Routine     Intermoneter ID     Not       VLX, SUL C, 62, H     Routine     Intermoneter ID     Routine       Vires     No     Tran Around     Tran Around       Vires     No     Transplant     Correction Factor:     C-2       Yes     No     Trad Containers     Intermoneter ID     No       Vires     No     Trad Containers     Intermoneter ID     Intermoneter ID       Vires     No     Trad Containers     Intermoneter ID     Intermoneter ID     Intermoneter ID       No     Trad Containers     Intermoneter ID     Intermoneter ID     Intermoneter ID     Intermoneter ID       No     Trad Containers     Intermoneter ID     Intermoneter ID     Intermoneter ID     Intermoneter ID     Intermoneter ID       Intermoneter ID     Intermone</td> <td>Housen,TX (281) 240-4200 Dellas,TX (214) 920-300 San Andon XX (216) 500-333 Middler,TX (213) 920-300 San Andon XX (216) 500-333 Middler,TX (213) 920-300 San Andon XX (216) 500-333 Middler,TX (213) 920-300 San Andon XX (216) 500-343 Middler,TX (213) 920-300 San Andon XX (210) 500-343 Middler,TX (213) 920-300 San Andon XX (216) 500-343 Middler,TX (213) 920-340 Middler,TX (213) 920-34</td> <td>Image:         Fundament TX (281) Sub-corrol Date: TX (24) Sub-corrol Sub-Anson TX (210) Sub-corrol Sub-Anson TX (210) Sub-Sub-Sub-Sub-Sub-Sub-Sub-Sub-Sub-Sub-</td>	Figure 1     Houston, TX (281) 240-420       In Moir     Midland, TX (322, 704-54)       LT Environmental, Inc., Permian office     Bill to: (r diffeen       3300 North A Street     Company Nam       3300 North A Street     City, State ZIP;       (432) 236-3849     Email: slo@ittenv.com       PLU     Cut 52 P. C. 623 H     Turm Around       01.91 8 0 ° 2     Rush: 244       Spencer Lo     Due Date:       PT     Temp Blank:     (res) No       Ves     No     Notice       Ves     No     No       Teation     Matrix     Sampled       Spencer:     12 - 4-17     Orscill Containers:     1       Teation     Matrix     Sampled     Depth       Trans Recta     13 Depth     Sampled     Depth       7     13 - 4-17     13 Depth     Sampled       7     15 - 17     13 Depth     Sampled       8     RCRA     13 DPM     Texast 1       7     <	Moir     Houston, TX (281) 240-4200     Dallas, TX (214) 902-000 o S.       Moir     Midland TX (282) 704-6400)     EL Paso, TX (215) 905-0440       Hobbs, MM (375-382-7550)     Phoemi, AZ (480-355-0400)     Alama, GA, O       Morr     Ernall     Company, Vane:     XTO Energy       North A Street     Carlsbad, MM 8220     Spencer Lo     City, State ZiP:     Carlsbad, MM 88220       236-3849     Ernall     Suboliterius, Company, Vane:     Turn Around       01:97 18 of 1     Routine     Intermoneter ID     Not       VLX, SUL C, 62, H     Routine     Intermoneter ID     Routine       Vires     No     Tran Around     Tran Around       Vires     No     Transplant     Correction Factor:     C-2       Yes     No     Trad Containers     Intermoneter ID     No       Vires     No     Trad Containers     Intermoneter ID     Intermoneter ID       Vires     No     Trad Containers     Intermoneter ID     Intermoneter ID     Intermoneter ID       No     Trad Containers     Intermoneter ID     Intermoneter ID     Intermoneter ID     Intermoneter ID       No     Trad Containers     Intermoneter ID     Intermoneter ID     Intermoneter ID     Intermoneter ID     Intermoneter ID       Intermoneter ID     Intermone	Housen,TX (281) 240-4200 Dellas,TX (214) 920-300 San Andon XX (216) 500-333 Middler,TX (213) 920-300 San Andon XX (216) 500-333 Middler,TX (213) 920-300 San Andon XX (216) 500-333 Middler,TX (213) 920-300 San Andon XX (216) 500-343 Middler,TX (213) 920-300 San Andon XX (210) 500-343 Middler,TX (213) 920-300 San Andon XX (216) 500-343 Middler,TX (213) 920-340 Middler,TX (213) 920-34	Image:         Fundament TX (281) Sub-corrol Date: TX (24) Sub-corrol Sub-Anson TX (210) Sub-corrol Sub-Anson TX (210) Sub-Sub-Sub-Sub-Sub-Sub-Sub-Sub-Sub-Sub-

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Final 1.002

**Environment Testing** 

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Xenco

#### Project Id: 012919250 Dan Moir

**Contact:** 

#### **Project Location:**

Certificate of Analysis Summary 645548

WSP USA, Dallas, TX

### Project Name: PLU PC 28 Battery 2RP-5697

Date Received in Lab: Mon 12.09.2019 10:15

**Report Date:** 12.15.2020 10:11

Project Manager: Jessica Kramer

	Lab Id:	645548-001	
Analysis Requested	Field Id:	FS01	
Analysis Kequestea	Depth:	5- ft	
	Matrix:	SOIL	
	Sampled:	12.06.2019 12:2	20
BTEX by EPA 8021B	Extracted:	12.09.2019 14:0	00
	Analyzed:	12.10.2019 03:1	17
	Units/RL:	mg/kg	RL
Benzene			00198
Toluene			00198
Ethylbenzene			00198
m,p-Xylenes			00397
o-Xylene			00198
Total Xylenes			00198
Total BTEX		<0.00198 0.0	0198
Chloride by EPA 300	Extracted:	12.09.2019 16:1	10
	Analyzed:	12.09.2019 20:2	24
	Units/RL:	mg/kg	RL
Chloride		316	9.90
TPH by SW8015 Mod	Extracted:	12.09.2019 17:0	00
	Analyzed:	12.10.2019 01:3	33
	Units/RL:	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)	·		50.2
Diesel Range Organics (DRO)			50.2
Motor Oil Range Hydrocarbons (MRO)			50.2
Total GRO-DRO			50.2
Total TPH		<50.2	50.2

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jession Vramer

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eurofins Environment Testing Xenco

# Analytical Report 645548

Page 124 of 344

## for

## WSP USA

**Project Manager: Dan Moir** 

PLU PC 28 Battery 2RP-5697

### 012919250

### 12.15.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing

12.15.2020
Project Manager: Dan Moir
WSP USA
2777 N. Stemmons Freeway, Suite 1600
Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): 645548 PLU PC 28 Battery 2RP-5697 Project Address:

### Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 645548. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 645548 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession beamer

Jessica Kramer Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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## Sample Cross Reference 645548

### WSP USA, Dallas, TX

PLU PC 28 Battery 2RP-5697

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01	S	12.06.2019 12:20	5 ft	645548-001

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### **CASE NARRATIVE**

Client Name: WSP USA Project Name: PLU PC 28 Battery 2RP-5697

 Project ID:
 012919250

 Work Order Number(s):
 645548

 Report Date:
 12.15.2020

 Date Received:
 12.09.2019

### Sample receipt non conformances and comments:

Revised report and invoice to reflect correct project name and number. New version generated. JK 12/11/19 V1.002 Revision - Changed client name from LT Environmental to WSP USA JK 12/15/20

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3109895 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

## **Certificate of Analytical Results 645548**

## WSP USA, Dallas, TX

PLU PC 28 Battery 2RP-5697

Sample Id: <b>FS01</b> Lab Sample Id: 645548-001		Matrix: Date Co	Soil ollected: 12.06	5.2019 12:20		Date Received:12.0 Sample Depth: 5 ft	9.2019 10	:15
Analytical Method: Chloride by EP	A 300					Prep Method: E30	OP	
Tech: MAB								
Analyst: MAB		Date Pr	rep: 12.09	0.2019 16:10		% Moisture: Basis: Wet	XX7 * 1 /	
Seq Number: 3109906			-			Dasis. Wet	Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	316	9.90		mg/kg	12.09.2019 20:24		1
Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3109944	15 Mod	Date Pr	rep: 12.09	0.2019 17:00		Prep Method: SW8 % Moisture: Basis: Wet	8015P Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	12.10.2019 01:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2		mg/kg	12.10.2019 01:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	12.10.2019 01:33	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	12.10.2019 01:33	U	1
Total TPH	PHC635	<50.2	50.2		mg/kg	12.10.2019 01:33	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	s Analysis Date	Flag	
1-Chlorooctane		111-85-3	100	%	70-135	12.10.2019 01:33		
o-Terphenyl		84-15-1	104	%	70-135	12.10.2019 01:33		

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## **Certificate of Analytical Results 645548**

## WSP USA, Dallas, TX

PLU PC 28 Battery 2RP-5697

12.09.2019 14:00

% Moisture:

Wet Weight

Basis:

Sample Id: FS01	Matrix: Soil	Date Received:12.09.2019 10:15
Lab Sample Id: 645548-001	Date Collected: 12.06.2019 12:20	Sample Depth: 5 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B

Tech:	MAB	
Analyst:	MAB	Date Prep:
Seq Number:	3109895	

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	12.10.2019 03:17	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	12.10.2019 03:17	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	12.10.2019 03:17	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	12.10.2019 03:17	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	12.10.2019 03:17	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	12.10.2019 03:17	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	12.10.2019 03:17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	103	%	70-130	12.10.2019 03:17		
4-Bromofluorobenzene		460-00-4	120	%	70-130	12.10.2019 03:17		

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**Environment Testing** 

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## Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

<b>BRL</b> Below Reporting Limit.	ND Not Detected									
<b>RL</b> Reporting Limit										
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection							
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n						
DL Method Detection Limit	L Method Detection Limit									
NC Non-Calculable										
SMP Client Sample		BLK	Method Blank							
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate						
MD/SD Method Duplicate/Samp	le Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate						
+ NELAC certification not offered	for this compound.									

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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**Environment Testing** 

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### QC Summary 645548

## WSP USA

PLU PC 28 Battery 2RP-5697

							•						
Analytical Method: Seq Number:	Chloride by 3109906	y EPA 3	)0		Matrix:	Solid			P	rep Meth Date Pr		0P )9.2019	
MB Sample Id:	7692026-1-1	BLK				7692026-	1-BKS		LCS		•	2026-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	260	104	263	105	90-110	1	20	mg/kg	12.09.2019 18:00	
Analytical Mathady	Chlorido h	- FDA 20	00						D	rep Meth	od: E30	Ω₽	
Analytical Method: Seq Number:	Chloride by 3109906	EFA J	<i>J</i> 0		Matrix:	Soil			<b>F</b>	Date Pr		)9.2019	
Parent Sample Id:	645522-001					645522-0	01 S		MS		-	522-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		6.14	199	210	102	209	102	90-110	0	20	mg/kg	12.09.2019 18:17	
Analytical Method:	Chloride by	v EPA 3	)0						P	rep Meth	od: E30	0P	
Seq Number:	3109906				Matrix:	Soil			-	Date Pr		9.2019	
Parent Sample Id:	645537-003			MS Sai	nple Id:	645537-0	03 S		MS	D Sample	e Id: 645	537-003 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		110	199	327	109	328	110	90-110	0	20	mg/kg	12.09.2019 19:38	
Analytical Method:	TPH by SW	V8015 M	od						P	rep Meth	od: SW	8015P	
Seq Number:	3109944				Matrix:					Date Pr	-	9.2019	
MB Sample Id:	7692044-1-]	BLK		LCS Sar	nple Id:	7692044-	1-BKS		LCS	D Sample	e Id: 769	2044-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb		<50.0	1000	1060	106	977	98	70-135	8	35	mg/kg	12.10.2019 00:32	
Diesel Range Organics	(DRO)	<50.0	1000	1100	110	1090	109	70-135	1	35	mg/kg	12.10.2019 00:32	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		105			27		118			-135	%	12.10.2019 00:32	
o-Terphenyl		113		1	20		121		70	-135	%	12.10.2019 00:32	
Analytical Method:	TPH by SV	V8015 M	od						P	rep Meth	od: SW	8015P	
Seq Number:	3109944				Matrix:					Date Pr		9.2019	
				MB Sar	nple Id:	7692044-	1-BLK						
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	12.10.2019 00:12	
											6 8		

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.

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**Environment Testing** 

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QC Summary 645548

## WSP USA

PLU PC 28 Battery 2RP-5697

Analytical Method:	TPH by SV	W8015 M	od						Pi	rep Metho	od: SW	8015P	
Seq Number:	3109944			]	Matrix:	Soil				Date Pr	ep: 12.0	9.2019	
Parent Sample Id:	645543-004	4		MS San	nple Id:	645543-00	)4 S		MS	D Sample	e Id: 645	543-004 SD	
Parameter         Parent Result         Spike Amount           Gasoling Parage Hydrocarbons (GPQ)         -60.0         000				MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	< 50.0	999	993	99	986	99	70-135	1	35	mg/kg	12.10.2019 10:50	
Diesel Range Organics (	(DRO)	52.0	999	1180	113	1250	120	70-135	6	35	mg/kg	12.10.2019 10:50	
Surrogate					IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1-Chlorooctane				1	22	118			70-135		%	12.10.2019 10:50	
o-Terphenyl				118 121					70-135 % 12.10.2019 10:50				

Analytical Method:	BTEX by EPA 8021	В						P	rep Metho	od: SW	5030B	
Seq Number:	3109895		]	Matrix:	Solid				Date Pr	ep: 12.0	9.2019	
MB Sample Id:	7692023-1-BLK		LCS San	nple Id:	7692023-	I-BKS		LCS	D Sample	e Id: 769	2023-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0877	88	0.0960	96	70-130	9	35	mg/kg	12.09.2019 20:41	
Toluene	< 0.00200	0.100	0.0898	90	0.0982	98	70-130	9	35	mg/kg	12.09.2019 20:41	
Ethylbenzene	< 0.00200	0.100	0.0889	89	0.0971	97	71-129	9	35	mg/kg	12.09.2019 20:41	
m,p-Xylenes	< 0.00400	0.200	0.189	95	0.206	103	70-135	9	35	mg/kg	12.09.2019 20:41	
o-Xylene	< 0.00200	0.100	0.0963	96	0.105	105	71-133	9	35	mg/kg	12.09.2019 20:41	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSE %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene	101		10	02		103		70	-130	%	12.09.2019 20:41	
4-Bromofluorobenzene	109		12	20		118		70	-130	%	12.09.2019 20:41	

Analytical Method:	BTEX by EPA 8021	lB						P	rep Metho	d: SW	5030B	
Seq Number:	3109895			Matrix:	Soil				Date Pre	p: 12.0	09.2019	
Parent Sample Id:	645527-023		MS Sar	nple Id:	645527-02	23 S		MS	D Sample	Id: 645	527-023 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0994	0.101	102	0.0951	94	70-130	6	35	mg/kg	12.09.2019 21:19	
Toluene	< 0.00199	0.0994	0.102	103	0.0967	96	70-130	5	35	mg/kg	12.09.2019 21:19	
Ethylbenzene	< 0.00199	0.0994	0.0998	100	0.0947	94	71-129	5	35	mg/kg	12.09.2019 21:19	
m,p-Xylenes	< 0.00398	0.199	0.210	106	0.200	99	70-135	5	35	mg/kg	12.09.2019 21:19	
o-Xylene	< 0.00199	0.0994	0.108	109	0.103	102	71-133	5	35	mg/kg	12.09.2019 21:19	
Surrogate				IS Rec	MS Flag	MSD %Red			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	04		103		70	-130	%	12.09.2019 21:19	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

4-Bromofluorobenzene

 $\label{eq:c-A} \begin{array}{l} [D] = 100^{*}(C\text{-}A) \ / \ B \\ RPD = 200^{*} \ | \ (C\text{-}E) \ / \ (C\text{+}E) \ | \\ [D] = 100^{*} \ (C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

122

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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12.09.2019 21:19

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70-130

%

Receive	5 d by	man ho What	Relinquished by: (Signature) Receiv	or vice. 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 or the control the control the control or the control the control the control or 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 or the control or the control the control or the control o	Circle Method(s) and Metal(s) to be analyzed	2 Total 200.7 / 6010 200.8 / 6020:	:24	AN	1				[101.9.10] S 12.9.101	enutication Matrix	'es No	Tes No	(Yes) N	); (.0	SAMPLE RECEIPT Temp Blank: (Yes)	Sampler's Name: Spencer Lo	P.O. Number:	Project Number: 0129 ( go 9 1	Project Name: PLU CUX JU PL 003#	Phone: (432) 236-3849	City, State ZIP: Midland, TX 79705	-	LT Environmental, Inc.,	roject Manager: Dan Moir		of 3.
		12	Received by: (Signature)	consumes a valid purchase order from clic all not assume any responsibility for any los tot and a charge of \$5 for each sample subn	TCLP / SPLP 6010: 8RCRA	8RCRA 13PPM Texas 11 A				M	2		1 120 211 100	Sampled Depth	otal Containers:	Correction Factor: -0-2	70	Thermometer ID	No Wet Ice: Yes No	Due Date:	Rush: 24 H	Routine П	# Turn Around	Email: slo@ltenv.com.	City, State ZIP:	Address:	Permian office Company Name:	Bill to: (if different)	Houston,TX (281) 240-420 Midland,TX (432-704-544 Hobbs,NM (575-392-7550) Phoenix,A2	
	<u>.</u>		Date/Time Relinquished by: (Signa	ent company to Xenco, its affiliates and subcontractors. It as sses or expenses incurred by the client if such losses are du mitted to Xenco, but not analyzed. These terms will be enforce	A Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Al Sb As Ba Be B Cd Ca Cr Co CH Fo I							XXX	трн (	iber of (EPA 8 (EPA c (EPA	015 0=8	i) 8021)		S					dmo		3104 East Green Street		t) Kyle Littrell	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)	Chain of Custody
Revi	f	Received by: (Signature)		signs standard terms and conditions e to circumstances beyond the control ed unloss merciously percentated	g sic									Samp	TAT starts lab, if n									C	Level III TST/UST		Program: UST/PST PRP Brownfields PBC	Work Order Con		Mart Order LU CSHB
Revised Date 051418 Rev. 2018.1		Date/Time 29191010-15			1631 / 245.1 / 7470 / 7471 : Hg		/							Sample Comments	TAT starts the day recevied by the lab, if received by 4:30pm							WORK Order Notes	ak Ouden Neder						of	C C Y H O

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S Environment Testing Xenco

Project Id: 012919250 Contact: Dan Moir

**Project Location:** 

Certificate of Analysis Summary 645561

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WSP USA, Dallas, TX

Project Name: PLU PC 28 Battery 2RP-5697

 Date Received in Lab:
 Mon 12.09.2019 10:15

 Report Date:
 12.15.2020 10:12

Project Manager: Jessica Kramer

	Lab Id:	645561-001			
Analysis Requested	Field Id:	SW02			
Anuiysis Kequesieu	Depth:	0-5 ft			
	Matrix:	SOIL			
	Sampled:	12.06.2019 13:00			
BTEX by EPA 8021B	Extracted:	12.09.2019 14:00			
	Analyzed:	12.10.2019 04:14			
	Units/RL:	mg/kg RL			
Benzene		<0.00198 0.00198			
Toluene		<0.00198 0.00198			
Ethylbenzene		<0.00198 0.00198			
m,p-Xylenes		<0.00395 0.00395			
o-Xylene		<0.00198 0.00198			
Total Xylenes		<0.00198 0.00198			
Total BTEX		<0.00198 0.00198			
Chloride by EPA 300	Extracted:	12.09.2019 16:10			
	Analyzed:	12.09.2019 20:35			
	Units/RL:	mg/kg RL			
Chloride		101 9.92			
TPH by SW8015 Mod	Extracted:	12.09.2019 17:00			
	Analyzed:	12.10.2019 01:53			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0			
Diesel Range Organics (DRO)		<50.0 50.0			
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0			
Total GRO-DRO		<50.0 50.0			
Total TPH		<50.0 50.0			

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jession Vramer

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# **Analytical Report 645561**

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## for

## WSP USA

**Project Manager: Dan Moir** 

PLU PC 28 Battery 2RP-5697

### 012919250

### 12.15.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

Xenco

12.15.2020
Project Manager: Dan Moir
WSP USA
2777 N. Stemmons Freeway, Suite 1600
Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): 645561 PLU PC 28 Battery 2RP-5697 Project Address:

### Dan Moir:

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We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 645561. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 645561 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession beamer

Jessica Kramer Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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## Sample Cross Reference 645561

### WSP USA, Dallas, TX

PLU PC 28 Battery 2RP-5697

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW02	S	12.06.2019 13:00	0 - 5 ft	645561-001

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### **CASE NARRATIVE**

Client Name: WSP USA Project Name: PLU PC 28 Battery 2RP-5697

 Project ID:
 012919250

 Work Order Number(s):
 645561

 Report Date:
 12.15.2020

 Date Received:
 12.09.2019

### Sample receipt non conformances and comments:

Revised report and invoice to reflect correct project name and number. New version generated. JK 12/11/19 V1.002 Revision - Changed client name from LT Environmental to WSP USA JK 12/15/20

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3109895 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

## **Certificate of Analytical Results 645561**

## WSP USA, Dallas, TX

PLU PC 28 Battery 2RP-5697

Sample Id: <b>SW02</b> Lab Sample Id: 645561-001		Matrix Date C	Soil Soil	5.2019 13:00			Date Received:12.09.2019 10:15 Sample Depth: 0 - 5 ft				
Analytical Method: Chloride by EP	A 300					Prep Method: E30	OP				
Tech: MAB						% Moisture:					
Analyst: MAB		Date Pr	rep: 12.09	9.2019 16:10			Weight				
Seq Number: 3109906							, eight				
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil			
Chloride	16887-00-6	101	9.92		mg/kg	12.09.2019 20:35		1			
Analytical Method: TPH by SW801 Tech: DTH Analyst: DTH Seq Number: 3109944	15 Mod	Date Pr	rep: 12.09	9.2019 17:00		Prep Method: SW8 % Moisture: Basis: Wet	8015P Weight				
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil			
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	12.10.2019 01:53	U	1			
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0		mg/kg	12.10.2019 01:53	U	1			
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	12.10.2019 01:53	U	1			
Total GRO-DRO	PHC628	<50.0	50.0		mg/kg	12.10.2019 01:53	U	1			
Total TPH	PHC635	<50.0	50.0		mg/kg	12.10.2019 01:53	U	1			
Surrogate		Cas Number	% Recovery	Units	Limits	s Analysis Date	Flag				
1-Chlorooctane		111-85-3	101	%	70-135	12.10.2019 01:53					
o-Terphenyl		84-15-1	105	%	70-135	12.10.2019 01:53					

#### Environment Testin Xenco

## WSP USA, Dallas, TX

12.09.2019 14:00

% Moisture:

Wet Weight

Basis:

PLU PC 28 Battery 2RP-5697

Sample Id: SW02	Matrix: Soil	Date Received:12.09.2019 10:15
Lab Sample Id: 645561-001	Date Collected: 12.06.2019	9 13:00 Sample Depth: 0 - 5 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B

Date Prep:

Tech:MABAnalyst:MABSeq Number:3109895

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	12.10.2019 04:14	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	12.10.2019 04:14	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	12.10.2019 04:14	U	1
m,p-Xylenes	179601-23-1	< 0.00395	0.00395		mg/kg	12.10.2019 04:14	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	12.10.2019 04:14	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	12.10.2019 04:14	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	12.10.2019 04:14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	121	%	70-130	12.10.2019 04:14		
1,4-Difluorobenzene		540-36-3	103	%	70-130	12.10.2019 04:14		

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**Environment Testing** 

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## **Flagging Criteria**

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Sam	ple Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	l for this compound.			

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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**Environment Testing** 

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### QC Summary 645561

## WSP USA

PLU PC 28 Battery 2RP-5697

							•						
Analytical Method: Seq Number:	Chloride by 3109906	00		Matrix:	Solid			P	rep Meth Date Pr		0P )9.2019		
MB Sample Id:	7692026-1-1	BLK				7692026-	1-BKS		LCS		•	2026-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	260	104	263	105	90-110	1	20	mg/kg	12.09.2019 18:00	
											66		
Analytical Method:	-	y EPA 3	00						P	rep Meth			
Seq Number:	3109906				Matrix:		01 6		MC	Date Pr	-	9.2019	
Parent Sample Id:	645522-001		~ "		-	645522-0				-		522-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		6.14	199	210	102	209	102	90-110	0	20	mg/kg	12.09.2019 18:17	
Analytical Method:	Chlorido by	7 FDA 3	n						P	rep Meth	od: E30	0P	
Seq Number:	3109906	y LIA S			Matrix:	Soil			1	Date Pr		9.2019	
Parent Sample Id:	645537-003			MS Sa	nple Id:	645537-0	03 S		MS		-	537-003 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		110	199	327	109	328	110	90-110	0	20	mg/kg	12.09.2019 19:38	
Analytical Method:	TPH by SV	V8015 M	bo						P	rep Meth	od: SW	8015P	
Seq Number:	3109944	001011			Matrix:	Solid				Date Pr		9.2019	
MB Sample Id:	7692044-1-1	BLK		LCS Sar	nple Id:	7692044-	1-BKS		LCS	D Sample	e Id: 769	2044-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	< 50.0	1000	1060	106	977	98	70-135	8	35	mg/kg	12.10.2019 00:32	
Diesel Range Organics	(DRO)	<50.0	1000	1100	110	1090	109	70-135	1	35	mg/kg	12.10.2019 00:32	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		105		1	27		118	3	70	-135	%	12.10.2019 00:32	
o-Terphenyl		113		1	20		121		70	-135	%	12.10.2019 00:32	
Analytical Method:	TPH by SW	V8015 M	od						P	rep Meth		8015P	
Seq Number:	3109944				Matrix: nple Id:	Solid 7692044-	1-BLK			Date Pr	rep: 12.0	09.2019	
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	12.10.2019 00:12	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.

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**Environment Testing** 

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QC Summary 645561

## WSP USA

PLU PC 28 Battery 2RP-5697

Analytical Method:	TPH by S	W8015 M	od						Pi	ep Metho	od: SW	8015P	
Seq Number:	3109944				Matrix:	Soil				Date Pr	ep: 12.0	9.2019	
Parent Sample Id:	645543-00	4		MS Sar	nple Id:	645543-00	)4 S		MS	D Sample	e Id: 645	543-004 SD	
Parameter Parent Spike Result Amount				MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	< 50.0	999	993	99	986	99	70-135	1	35	mg/kg	12.10.2019 10:50	
Diesel Range Organics	Diesel Range Organics (DRO) 52.0 999			1180	113	1250	120	70-135	6	35	mg/kg	12.10.2019 10:50	
Surrogate				MS %Rec		MS MSI Flag %Re				mits	Units	Analysis Date	
1-Chlorooctane				122		118			70	70-135 %		12.10.2019 10:50	
o-Terphenyl				1	18		121		70	-135	%	12.10.2019 10:50	

Analytical Method:	alytical Method: BTEX by EPA 8021B							Prep Method: SW5030B								
Seq Number:	3109895		Matrix: Solid					Date Prep: 12.09.2019								
MB Sample Id:	7692023-1-BLK		LCS San	nple Id:	7692023-	I-BKS		LCS	D Sample	e Id: 769	2023-1-BSD					
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag				
Benzene	< 0.00200	0.100	0.0877 88		0.0960	96	70-130	9	35	mg/kg	12.09.2019 20:41					
Toluene	< 0.00200	0.100	0.0898	90	0.0982	98	70-130	9	35	mg/kg	12.09.2019 20:41					
Ethylbenzene	< 0.00200	0.100	0.0889	89	0.0971	97	71-129	9	35	mg/kg	12.09.2019 20:41					
m,p-Xylenes	< 0.00400	0.200	0.189 95		0.206	103	70-135	9	9 35		12.09.2019 20:41					
o-Xylene	<0.00200 0.100		0.0963 96		0.105	105 71-133		9 35		mg/kg	12.09.2019 20:41					
Surrogate	MB %Rec	MB Flag			LCS Flag	LCOD		D Li g	mits	Units	Analysis Date					
1,4-Difluorobenzene	101		102			103		70	-130 %		12.09.2019 20:41					
4-Bromofluorobenzene	109		12	20		118		70	-130	%	12.09.2019 20:41					

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 8021</b> 3109895 645527-023	lB		Matrix: nple Id:	Soil 645527-02	23 S			rep Methe Date Pr D Sample	ep: 12.0	SW5030B 12.09.2019 645527-023 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result			%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199 0.0		0.101	102	0.0951	94	70-130	6	35	mg/kg	12.09.2019 21:19	
Toluene	< 0.00199 0.0994		0.102	103	0.0967	96	70-130	5	35	mg/kg	12.09.2019 21:19	
Ethylbenzene	< 0.00199	0.0994	0.0998	100	0.0947	94	71-129	5	35	mg/kg	12.09.2019 21:19	
m,p-Xylenes	< 0.00398	0.199	0.210	106	0.200	99	70-135	5	35	mg/kg	12.09.2019 21:19	
o-Xylene	< 0.00199 0.0994		0.108 109		0.103	102	71-133	5	35	mg/kg	12.09.2019 21:19	
Surrogate					MS Flag	MSD %Red			Limits		Analysis Date	
1,4-Difluorobenzene			1	04		103		70	-130	%	12.09.2019 21:19	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

4-Bromofluorobenzene

 $\label{eq:c-A} \begin{array}{l} [D] = 100^{*}(C\text{-}A) \ / \ B \\ RPD = 200^{*} \ | \ (C\text{-}E) \ / \ (C\text{+}E) \ | \\ [D] = 100^{*} \ (C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

122

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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12.09.2019 21:19

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Final 1.002

70-130

%

by OCD: 2.22 Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) UWW AV Deceived by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) OCD: Control WWW AV Deceived by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) COD: Control WWW AV Deceived by: (Signature) COD: Control WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se A     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     Water 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		Aler Co.	1300 0-51 1 X X	Cation Matrix Date Time Depth umber of PH (EPA A	Thermometer ID The Correction Factor:	CEIPT Temp Blank: Yes No Wet Ice: Yes No	1790819110 T	TV 2/ mo # I	(432) 236-3840 City, State ZIP:	at Address:	/ Name: LT Environmental, Inc., Permian office	Hobbs, NM (575-392-7550)         Phoenix, AZ (480-355-0900)         Atlanta, GA (770-449-8800)         Tampa, FL (813-620-2000)           Project Manager:         Dan Moir         Bill to: (if different)         Kvle L ittrall	Chain of Custody 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
s are que to circumstances beyond the control enforced unless previously negotiated. (Signature) Received by: (Signature) Date/Time izht91010215	o Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr TI Sn U V Zn Pb Mn Mo Ni Se Ag TI U 1631 / 245.1 / 7470 / 7471 : Hg			Sample Comments	TAT starts the day received by the lab, if received by 4:30pm			QUEST Work Order Notes	Other:	Reporting:Level II Level III ST/UST RRP [level IV	State of Project:		L (813-620-2000) www.xenco.com Page of	3334 Work Order No: <u>しいくらうし</u>

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Final 1.002
**Environment Testing** 

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#### Project Id: 012919250 Dan Moir

**Contact:** 

#### **Project Location:**

# Certificate of Analysis Summary 645563

### WSP USA, Dallas, TX

#### Project Name: PLU PC 28 Battery 2RP-5697

Date Received in Lab: Mon 12.09.2019 10:15 **Report Date:** 12.15.2020 10:14

Project Manager: Jessica Kramer

	Lab Id:	645563-001			
Analysis Requested	Field Id:	SW03			
Analysis Kequestea	Depth:	0-5 ft			
	Matrix:	SOIL			
	Sampled:	12.06.2019 12:53			
BTEX by EPA 8021B	Extracted:	12.09.2019 14:00			
	Analyzed:	12.10.2019 04:33			
	Units/RL:	mg/kg RL			
Benzene		<0.00200 0.00200			
Toluene		<0.00200 0.00200			
Ethylbenzene		<0.00200 0.00200			
m,p-Xylenes		< 0.00400 0.00400			
o-Xylene		<0.00200 0.00200			
Total Xylenes		<0.00200 0.00200			
Total BTEX		<0.00200 0.00200			
Chloride by EPA 300	Extracted:	12.09.2019 16:10			
	Analyzed:	12.09.2019 20:41			
	Units/RL:	mg/kg RL			
Chloride		268 9.98			
TPH by SW8015 Mod	Extracted:	12.09.2019 17:00			
	Analyzed:	12.10.2019 01:53			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9			
Diesel Range Organics (DRO)		<49.9 49.9			
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9			
Total GRO-DRO		<49.9 49.9			
Total TPH		<49.9 49.9			

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jession Vramer

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# Analytical Report 645563

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for

## WSP USA

**Project Manager: Dan Moir** 

PLU PC 28 Battery 2RP-5697

#### 012919250

#### 12.15.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

12.15.2020 Project Manager: Dan Moir WSP USA 2777 N. Stemmons Freeway, Suite 1600

Dallas, TX 75207 Reference: Eurofins Xenco, LLC Report No(s): 645563 PLU PC 28 Battery 2RP-5697

Project Address:

#### Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 645563. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 645563 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession beamer

Jessica Kramer **Project Manager** 

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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# Sample Cross Reference 645563

### WSP USA, Dallas, TX

PLU PC 28 Battery 2RP-5697

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW03	S	12.06.2019 12:53	0 - 5 ft	645563-001

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### **CASE NARRATIVE**

Client Name: WSP USA Project Name: PLU PC 28 Battery 2RP-5697

 Project ID:
 012919250

 Work Order Number(s):
 645563

 Report Date:
 12.15.2020

 Date Received:
 12.09.2019

#### Sample receipt non conformances and comments:

Revised report and invoice to reflect correct project name and number. New version generated. JK 12/11/19 V1.002 Revision - Changed client name from LT Environmental to WSP USA JK 12/15/20

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3109895 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

# **Certificate of Analytical Results 645563**

### WSP USA, Dallas, TX

PLU PC 28 Battery 2RP-5697

Sample Id: <b>SW03</b> Lab Sample Id: 645563-001		Matrix: Date Co	Date Received:12.0 Sample Depth: 0 - 5	ved:12.09.2019 10:15 pth: 0 - 5 ft							
Analytical Method: Chloride by EF	PA 300					Prep Method: E300	)P				
Tech: MAB											
Analyst: MAB		Date Pr	ep: 12.09	9.2019 16:10		% Moisture: Basis: Wet Weight					
Seq Number: 3109906						Dasis. wet	weight				
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil			
Chloride	16887-00-6	268	9.98	mg/kg	12.09.2019 20:41		1				
Analytical Method:TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3109944	15 Mod	Date Pr	ep: 12.09	9.2019 17:00		Prep Method: SW8 % Moisture: Basis: Wet	8015P Weight				
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil			
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	12.10.2019 01:53	U	1			
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	12.10.2019 01:53	U	1			
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	12.10.2019 01:53	U	1			
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	12.10.2019 01:53	U	1			
Total TPH	PHC635	<49.9	49.9		mg/kg	12.10.2019 01:53	U	1			
Surrogate		Cas Number	% Recovery	Units	Limits	s Analysis Date	Flag				
1-Chlorooctane		111-85-3	104	%	70-135	12.10.2019 01:53					
o-Terphenyl		84-15-1	113	%	70-135	12.10.2019 01:53					

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# **Certificate of Analytical Results 645563**

# WSP USA, Dallas, TX

PLU PC 28 Battery 2RP-5697

12.09.2019 14:00

% Moisture:

Wet Weight

Basis:

Sample Id:SW03Lab Sample Id:645563-001	Matrix: Soil Date Collected: 12.06.2019 12:53	Date Received:12.09.2019 10:15 Sample Depth: 0 - 5 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: MAB		

Date Prep:

Analyst: MAB Seq Number: 3109895

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	12.10.2019 04:33	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	12.10.2019 04:33	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	12.10.2019 04:33	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	12.10.2019 04:33	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	12.10.2019 04:33	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	12.10.2019 04:33	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	12.10.2019 04:33	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	12.10.2019 04:33		
4-Bromofluorobenzene		460-00-4	121	%	70-130	12.10.2019 04:33		

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**Environment Testing** 

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# **Flagging Criteria**

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

<b>BRL</b> Below Reporting Limit.	ND Not Detected			
<b>RL</b> Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Sampl	le Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	for this compound.			

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

### QC Summary 645563

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# WSP USA

PLU PC 28 Battery 2RP-5697

<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>Chloride by</b> 3109906 7692026-1-1	)0		Matrix: nple Id:	Solid 7692026-1	1-BKS			ep Methe Date Pr D Sample	ep: 12.0	0P 99.2019 2026-1-BSD		
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250	260	104	263	105	90-110	1	20	mg/kg	12.09.2019 18:00	
Analytical Method:	Chloride by	y EPA 30	)0						Pı	ep Metho	od: E30	0P	
Seq Number:	3109906				Matrix:					Date Pr	-	9.2019	
Parent Sample Id:	645522-001				nple Id:	645522-00	01 S		MS	•		522-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		6.14	199	210	102	209	102	90-110	0	20	mg/kg	12.09.2019 18:17	
<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>Chloride by</b> 3109906 645537-003		00		Matrix: nple Id:	Soil 645537-00	03 S			ep Methe Date Pr D Sample	ep: 12.0	0P 19.2019 537-003 SD	
-		Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	T-L
Parameter		Result	Amount	Result	%Rec	Result	%Rec			Limit		Date	Flag
Chloride		110	199	327	109	328	110	90-110	0	20	mg/kg	12.09.2019 19:38	
<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>TPH by SW</b> 3109944 7692044-1-1		od		Matrix: nple Id:	Solid 7692044-	1-BKS			rep Metho Date Pr D Sample	ep: 12.0	8015P 19.2019 2044-1-BSD	
Parameter		MB	Spike	LCS Result	LCS %Rec	LCSD		Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	Result <50.0	Amount 1000	1060	7 <b>6 Kec</b> 106	Result 977	%Rec 98	70-135	8	35	mg/kg	12.10.2019 00:32	
Diesel Range Organics	(DRO)	<50.0	1000	1100	110	1090	109	70-135	1	35	mg/kg	12.10.2019 00:32	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date	
1-Chlorooctane		105			27		118			-135	%	12.10.2019 00:32	
o-Terphenyl		113		1	20		121		70	-135	%	12.10.2019 00:32	
Analytical Method: Seq Number:	<b>TPH by SW</b> 3109944	V8015 M	od		Matrix: nple Id:	Solid 7692044-	1-BLK		Pi	ep Metho Date Pr		8015P 19.2019	
Parameter				MB							Units	Analysis	Flag
Motor Oil Range Hydrocar	bons (MRO)			Result <50.0							mg/kg	Date 12.10.2019 00:12	5
				<j0.0< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>iiig/Kg</td><td></td><td></td></j0.0<>							iiig/Kg		

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Final 1.002
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**Environment Testing** 

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QC Summary 645563

### WSP USA

PLU PC 28 Battery 2RP-5697

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P													
Seq Number:	3109944				Matrix:	Soil				Date Pr	ep: 12.0	9.2019	
Parent Sample Id:	645543-00	4	MS Sar	nple Id:	645543-00	)4 S		MSD Sample Id: 645543-004 SD					
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	< 50.0	999	993	99	986	99	70-135	1	35	mg/kg	12.10.2019 10:50	
Diesel Range Organics	(DRO)	52.0	999	1180	113	1250	120	70-135	6	35	mg/kg	12.10.2019 10:50	
Surrogate					IS Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane							118	1	70	-135	%	12.10.2019 10:50	
o-Terphenyl				1	18		121		70	-135	%	12.10.2019 10:50	

Analytical Method:	BTEX by EPA 8021	B						P	rep Metho	od: SW	5030B				
Seq Number:	3109895		]	Matrix:	Solid			Date Prep: 12.09.2019							
MB Sample Id:	7692023-1-BLK		LCS San	ple Id:	7692023-1	I-BKS		LCSD Sample Id: 7692023-1-BSD							
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag			
Benzene	< 0.00200	0.100	0.0877	88	0.0960	96	70-130	9	35	mg/kg	12.09.2019 20:41				
Toluene	< 0.00200	0.100	0.0898	90	0.0982	98	70-130	9	35	mg/kg	12.09.2019 20:41				
Ethylbenzene	< 0.00200	0.100	0.0889	89	0.0971	97	71-129	9	35	mg/kg	12.09.2019 20:41				
m,p-Xylenes	< 0.00400	0.200	0.189	95	0.206	103	70-135	9	35	mg/kg	12.09.2019 20:41				
o-Xylene	< 0.00200	0.100	0.0963	96	0.105	105	71-133	9	35	mg/kg	12.09.2019 20:41				
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSE %Ree			imits	Units	Analysis Date				
1,4-Difluorobenzene	101		10	02		103		70	-130	%	12.09.2019 20:41				
4-Bromofluorobenzene	109		12	20		118		70	-130	%	12.09.2019 20:41				

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 8021</b> 3109895 645527-023	B		Matrix: nple Id:	Soil 645527-02	23 S		rep Metho Date Pr D Sample				
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0994	0.101	102	0.0951	94	70-130	6	35	mg/kg	12.09.2019 21:19	
Toluene	< 0.00199	0.0994	0.102	103	0.0967	96	70-130	5	35	mg/kg	12.09.2019 21:19	
Ethylbenzene	< 0.00199	0.0994	0.0998	100	0.0947	94	71-129	5	35	mg/kg	12.09.2019 21:19	
m,p-Xylenes	< 0.00398	0.199	0.210	106	0.200	99	70-135	5	35	mg/kg	12.09.2019 21:19	
o-Xylene	< 0.00199	0.0994	0.108	109	0.103	102	71-133	5	35	mg/kg	12.09.2019 21:19	
Surrogate				IS Rec	MS Flag	MSD %Red			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	04		103		70	-130	%	12.09.2019 21:19	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

4-Bromofluorobenzene

 $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

122

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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12.09.2019 21:19

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119

70-130

%

eceived by OCD: 12/2	Circle Method(s) and Circle Method(s) and Wite: Signature of this docume Price. Xenco will be liable of Xenco. A minimum charge of the second	24 AM					Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name:	P.O. Number:	ä	Name:	Phone: (43:	City, State ZIP: Mid	Address: 330	-		Page 155 of .
nature) Received by	Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Ti U Service. 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 were or \$15.00 will be apolied to each project and a charge of \$5 for each purchase order from client company to Xenco. A minimum charge of \$75.00 will be apolied to each project and a charge of \$5 for each purchase or to \$5 for each purchase or \$5 for						ation Matrix Sampled	No NIA	IA	No	0.1	Temp Blank: Yes No	Spencer Lo		2 LogIbric	U CUX TY PL 003 A	(432) 236-3849	Midland, TX 79705	3300 North A Street	LT Environmental, Inc., Permian office	Dan Moir	
(Signature)	CRA 13PPM Texas 11 A TCLP / SPLP 6010: 8RCRA itutes a valid purchase order from clien tassume any responsibility for any loss d a charge of 6 for each served a survey loss			the ho	5 7		Sampled Depth	-	0-7			No	Due Date:	Rush: 24 H	Routine n	Turn Around	Email: slo@ltenv.com	City, State ZIP	Address:	fice Company Name:	Bill to: (if different)	Houston,TX (281) 240-420 Midland,TX (432-704-54 ,NM (575-392-7550) Phoenix,A
Date/Time Relin	Al Sb As Ba Be B Cd Ca Cr C RA Sb As Ba Be Cd Cr Co Cu litent company to Xenco, its affiliates and subco					X X X	TPH (	ber of EPA 80 (EPA 0	) )=80	21)	hers						slo@ltenv.com.dmoir@ltenv.com	Carlsbad, NM 88220		-	t) Kyle Littrell	<b>Chain of Custody</b> 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)
zed. These terms will be enforced unless r Relinquished by: (Signature)	Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni d Cr Co Cu Pb Mn Mo Ni Se Ag Ti U filiates and subcontractors. It assigns standard terms an by the client if such losses are due to circumstances beyor														ANALYSIS REQUEST		Del	Rep		Pro		<b>Ody</b> Antonio, TX (210) 509-3334 lbbock, TX (806)794-1296 -449-8800) Tampa, FL (813-620-
Received by: (Signature)	y SiC																	Reporting:Level III		Program: UST/PST PRP B		2000) www.xenco.com
ture)         Date/Time           1/2/9/10         10:15           Revised Date 051418 Rev. 2018.	SiO2 Na Sr TI Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg						Sample Comments	TAT starts the day recevied by the lab, if received by 4:30pm							Work Order Notes			ST/UST RRP Nevel IV		~ I.	Comments	r No: <u>(245563</u>

Released to Imaging: 4/8/2021 3:32:01 PM

Final 1.002

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Environment Testing

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Dan Moir

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**Project Id:** 

**Project Location:** 

**Contact:** 

Certificate of Analysis Summary 671625

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WSP USA, Dallas, TX

Project Name: PLU PC 28 BATT

Date Received in Lab:Wed 09.02.2020 12:25Report Date:12.15.2020 10:15Project Manager:Jessica Kramer

Lab Id: 671625-001 671625-002 671625-003 671625-004 Field Id: CH01 CH01 A CH02 CH02 A Analysis Requested Depth: 1- ft 7- ft 7.5- ft 1- ft Matrix: SOIL SOIL SOIL SOIL Sampled: 09.01.2020 13:00 09.01.2020 14:00 09.01.2020 10:00 09.01.2020 12:30 BTEX by EPA 8021B 09.02.2020 14:29 09.02.2020 14:29 Extracted: 09.02.2020 14:29 09.02.2020 14:29 Analyzed: 09.02.2020 18:11 09.02.2020 23:31 09.02.2020 18:52 09.02.2020 19:12 RL RL RL RL Units/RL: mg/kg mg/kg mg/kg mg/kg < 0.00200 < 0.00198 0.00198 < 0.00199 0.00199 0.00200 < 0.002000.00200 Benzene < 0.00200 < 0.00198 0.00198 0.00200 Toluene < 0.00199 0.00199 0.00200 < 0.00200 < 0.00199 0.00199 < 0.00200 0.00200 < 0.00198 0.00198 < 0.00200 0.00200 Ethylbenzene 0.00398 < 0.00401 0.00401 < 0.00396 0.00396 < 0.00400 0.00400 < 0.00398 m,p-Xylenes o-Xylene < 0.00199 0.00199 < 0.00200 0.00200 < 0.00198 0.00198 < 0.00200 0.00200 0.00200 0.00198 < 0.00200 0.00200 < 0.00199 0.00199 < 0.00200 < 0.00198 Total Xylenes Total BTEX < 0.00199 0.00199 < 0.00200 0.00200 < 0.00198 0.00198 < 0.00200 0.00200 Chloride by EPA 300 Extracted: 09.02.2020 15:24 09.02.2020 15:24 09.02.2020 15:24 09.02.2020 15:24 09.02.2020 16:19 09.02.2020 16:36 09.02.2020 16:41 09.02.2020 16:47 Analyzed: RL RL RL RL Units/RL: mg/kg mg/kg mg/kg mg/kg Chloride 325 9.96 594 9.92 596 9.98 114 9.88 TPH by SW8015 Mod Extracted: 09.02.2020 14:00 09.02.2020 14:00 09.02.2020 14:00 09.02.2020 14:00 Analyzed: 09.02.2020 15:43 09.03.2020 09:14 09.02.2020 21:47 09.02.2020 16:23 RL mg/kg RL mg/kg RL RL Units/RL: mg/kg mg/kg Gasoline Range Hydrocarbons (GRO) < 50.150.1 <49.8 49.8 < 50.1 50.1 <49.9 49.9 Diesel Range Organics (DRO) 563 50.1 90.7 49.8 214 50.1 <49.9 49.9 Motor Oil Range Hydrocarbons (MRO) 84.8 50.1 < 50.1 50.1 <49.9 49.9 < 49.849.8 Total GRO-DRO 563 50.1 90.7 49.8 214 50.1 <49.9 49.9 214 Total TPH 648 50.1 90.7 49.8 50.1 <49.9 49.9

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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# Analytical Report 671625

for

## WSP USA

**Project Manager: Dan Moir** 

PLU PC 28 BATT

#### 012919250

#### 12.15.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing Xenco

Project Manager: **Dan Moir WSP USA** 2777 N. Stemmons Freeway, Suite 1600 Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): 671625 PLU PC 28 BATT Project Address:

#### Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 671625. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 671625 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession beamer

Jessica Kramer Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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# Sample Cross Reference 671625

### WSP USA, Dallas, TX

PLU PC 28 BATT

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH01	S	09.01.2020 13:00	1 ft	671625-001
CH01 A	S	09.01.2020 14:00	7 ft	671625-002
CH02	S	09.01.2020 10:00	1 ft	671625-003
CH02 A	S	09.01.2020 12:30	7.5 ft	671625-004

Environment Testing Xenco

### **CASE NARRATIVE**

Client Name: WSP USA Project Name: PLU PC 28 BATT

 Project ID:
 012919250

 Work Order Number(s):
 671625

Report Date: 12.15.2020 Date Received: 09.02.2020

#### Sample receipt non conformances and comments:

V1.001 Revision - Changed client name from LT Environmental to WSP USA JK 12/15/20

Sample receipt non conformances and comments per sample:

None

# **Certificate of Analytical Results 671625**

### WSP USA, Dallas, TX PLU PC 28 BATT

Sample Id:CH01Lab Sample Id:671625-001		Matrix: Date Co	Soil ollected: 09.01	.2020 13:00		Date Received:09.02 Sample Depth: 1 ft	2.2020 12:	:25
Analytical Method: Chloride by EF	PA 300					Prep Method: E300	P	
Tech: MAB								
Analyst: MAB		Date Pr	rep: 09.02	.2020 15:24		% Moisture: Basis: Wet	Weight	
Seq Number: 3136283						Dasis. Wet	weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	325	9.96		mg/kg	09.02.2020 16:19		1
Analytical Method:TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3136233	15 Mod	Date Pr	rep: 09.02	.2020 14:00		Prep Method: SW8 % Moisture: Basis: Wet	015P Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Pr Result	rep: 09.02 RL	.2020 14:00	Units	% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3136233				.2020 14:00	Units mg/kg	% Moisture: Basis: Wet	Weight	<b>Dil</b>
Tech: DTH Analyst: DTH Seq Number: 3136233 Parameter	Cas Number	Result	RL	2020 14:00		% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3136233 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result	RL 50.1 50.1 50.1	.2020 14:00	mg/kg	% Moisture: Basis: Wet Analysis Date 09.02.2020 15:43 09.02.2020 15:43 09.02.2020 15:43	Weight Flag	1
Tech: DTH Analyst: DTH Seq Number: 3136233 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	Cas Number PHC610 C10C28DRO PHCG2835 PHC628	Result <50.1 563 84.8 563	RL 50.1 50.1 50.1 50.1	.2020 14:00	mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 09.02.2020 15:43 09.02.2020 15:43 09.02.2020 15:43 09.02.2020 15:43	Weight Flag	1 1 1 1
Tech: DTH Analyst: DTH Seq Number: 3136233 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result <50.1 563 84.8	RL 50.1 50.1 50.1	.2020 14:00	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 09.02.2020 15:43 09.02.2020 15:43 09.02.2020 15:43	Weight Flag	1 1 1
Tech: DTH Analyst: DTH Seq Number: 3136233 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	<b>Cas Number</b> PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result <50.1 563 84.8 563 648	RL 50.1 50.1 50.1 50.1	2020 14:00 Units	mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 09.02.2020 15:43 09.02.2020 15:43 09.02.2020 15:43 09.02.2020 15:43 09.02.2020 15:43	Weight Flag	1 1 1 1
Tech: DTH Analyst: DTH Seq Number: 3136233 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	Cas Number PHC610 C10C28DR0 PHCG2835 PHC628 PHC635	Result <50.1 563 84.8 563 648	RL 50.1 50.1 50.1 50.1 50.1 50.1		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 09.02.2020 15:43 09.02.2020 15:43 09.02.2020 15:43 09.02.2020 15:43 09.02.2020 15:43 09.02.2020 15:43 09.02.2020 15:43	Weight Flag U	1 1 1 1

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Environment Testing

# **Certificate of Analytical Results 671625**

### WSP USA, Dallas, TX PLU PC 28 BATT

Sample Id: Lab Sample I	<b>CH01</b> d: 671625-001	Matrix: Date Collected	Soil d: 09.01.2020 13:00	Date Received Sample Depth	1:09.02.2020 12:25 1: 1 ft
	ethod: BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			0/ M:	
Analyst:	MAB	Date Prep:	09.02.2020 14:29	% Moisture: Basis:	Wet Weight
Seq Number:	3136275			Dasis.	wet weight

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	09.02.2020 18:11	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	09.02.2020 18:11	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	09.02.2020 18:11	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	09.02.2020 18:11	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	09.02.2020 18:11	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	09.02.2020 18:11	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	09.02.2020 18:11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	98	%	70-130	09.02.2020 18:11		
1,4-Difluorobenzene		540-36-3	102	%	70-130	09.02.2020 18:11		

# **Certificate of Analytical Results 671625**

### WSP USA, Dallas, TX PLU PC 28 BATT

Sample Id:CH01 ALab Sample Id:671625-002		Matrix: Date Co	Soil llected: 09.01	.2020 14:00		Date Received:09.02 Sample Depth: 7 ft	2.2020 12:	25
Analytical Method: Chloride by EF	PA 300					Prep Method: E300	)P	
Tech: MAB								
Analyst: MAB		Date Pre	p: 09.02	2.2020 15:24		% Moisture:	<b>X</b> 7 · 1 /	
Seq Number: 3136283						Basis: Wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	594	9.92		mg/kg	09.02.2020 16:36		1
Analytical Method:TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3136233	15 Mod	Date Pre	p: 09.02	2.2020 14:00		Prep Method: SW8 % Moisture: Basis: Wet	8015P Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result	<b>RL</b> 49.8		Units mg/kg	Analysis Date 09.03.2020 09:14	<b>Flag</b> U	<b>Dil</b>
						•	_	
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	09.03.2020 09:14	_	1
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	PHC610 C10C28DRO	<49.8 <b>90.7</b>	49.8 49.8		mg/kg mg/kg	09.03.2020 09:14 09.03.2020 09:14	U	1
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	PHC610 C10C28DRO PHCG2835	<49.8 <b>90.7</b> <49.8	49.8 49.8 49.8		mg/kg mg/kg mg/kg	09.03.2020 09:14 09.03.2020 09:14 09.03.2020 09:14	U	1 1 1
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	PHC610 C10C28DRO PHCG2835 PHC628 PHC635	<49.8 90.7 <49.8 90.7 90.7	49.8 49.8 49.8 49.8	Units	mg/kg mg/kg mg/kg mg/kg	09.03.2020 09:14 09.03.2020 09:14 09.03.2020 09:14 09.03.2020 09:14 09.03.2020 09:14	U	1 1 1 1
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	PHC610 C10C28DRO PHCG2835 PHC628 PHC635 C	<49.8 90.7 <49.8 90.7 90.7	49.8 49.8 49.8 49.8 49.8 49.8	Units %	mg/kg mg/kg mg/kg mg/kg mg/kg	09.03.2020 09:14 09.03.2020 09:14 09.03.2020 09:14 09.03.2020 09:14 09.03.2020 09:14 09.03.2020 09:14 5 Analysis Date	U	1 1 1 1

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# **Certificate of Analytical Results 671625**

### WSP USA, Dallas, TX PLU PC 28 BATT

Sample Id: Lab Sample I	<b>CH01 A</b> d: 671625-002	Matrix: Date Collected	Soil 1: 09.01.2020 14:00	Date Received:09.02.2020 12:25 Sample Depth: 7 ft		
Analytical Mo	ethod: BTEX by EPA 8021B			Prep Method:	SW5035A	
Tech:	MAB			0/35.		
Analyst:	MAB	Date Prep:	09.02.2020 14:29	% Moisture: Basis:	Wet Weight	
Seq Number:	3136275			Dasis.	wet weight	

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	09.02.2020 23:31	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	09.02.2020 23:31	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	09.02.2020 23:31	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	09.02.2020 23:31	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	09.02.2020 23:31	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	09.02.2020 23:31	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	09.02.2020 23:31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	109	%	70-130	09.02.2020 23:31		
4-Bromofluorobenzene		460-00-4	101	%	70-130	09.02.2020 23:31		

# **Certificate of Analytical Results 671625**

### WSP USA, Dallas, TX PLU PC 28 BATT

Sample Id: CH02 Lab Sample Id: 671625-003		Matrix Date C	: Soil ollected: 09.01	1.2020 10:00		Date Received:09.02 Sample Depth: 1 ft	2.2020 12:	25
Analytical Method: Chloride by EP.	A 300					Prep Method: E300	)P	
Tech: MAB								
Analyst: MAB		Date P	rep: 09.02	2.2020 15:24		% Moisture:	*** * 1 /	
Seq Number: 3136283			•			Basis: Wet	Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	596	9.98		mg/kg	09.02.2020 16:41		1
Analytical Method: TPH by SW801 Tech: DTH Analyst: DTH Seq Number: 3136233	5 Mod	Date Pr	rep: 09.02	2.2020 14:00		Prep Method: SW8 % Moisture: Basis: Wet	015P Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	09.02.2020 21:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	214	50.1		mg/kg	09.02.2020 21:47		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1		mg/kg	09.02.2020 21:47	U	1
Total GRO-DRO	PHC628	214	50.1		mg/kg	09.02.2020 21:47		1
Total TPH	PHC635	214	50.1		mg/kg	09.02.2020 21:47		1
Surrogate		Cas Number	% Recovery	Units	Limits	s Analysis Date	Flag	
1-Chlorooctane		111-85-3	94	%	70-135	09.02.2020 21:47		
o-Terphenyl		84-15-1	100	%	70-135	09.02.2020 21:47		

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# **Certificate of Analytical Results 671625**

### WSP USA, Dallas, TX PLU PC 28 BATT

Sample Id: Lab Sample I	<b>CH02</b> d: 671625-003	Matrix: Date Collected	Soil d: 09.01.2020 10:00	Date Received Sample Depth	1:09.02.2020 12:25 :: 1 ft
Tech:	ethod: BTEX by EPA 8021B MAB			Prep Method: % Moisture:	SW5035A
Analyst: Seq Number:	MAB 3136275	Date Prep:	09.02.2020 14:29	Basis:	Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	09.02.2020 18:52	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	09.02.2020 18:52	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	09.02.2020 18:52	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	09.02.2020 18:52	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	09.02.2020 18:52	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	09.02.2020 18:52	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	09.02.2020 18:52	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	103	%	70-130	09.02.2020 18:52		
4-Bromofluorobenzene		460-00-4	94	%	70-130	09.02.2020 18:52		

# **Certificate of Analytical Results 671625**

### WSP USA, Dallas, TX PLU PC 28 BATT

Sample Id:CH02 ALab Sample Id:671625-004		Matrix: Date Col	Soil lected: 09.01	.2020 12:30		Date Received:09.02 Sample Depth: 7.5 f		:25
Analytical Method: Chloride by EF	PA 300					Prep Method: E300	OP	
Tech: MAB								
Analyst: MAB		Date Pre	p: 09.02	.2020 15:24		% Moisture: Basis: Wet	<b>X</b> 7 · 1 /	
Seq Number: 3136283			-			Dasis: wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	114	9.88		mg/kg	09.02.2020 16:47		1
Analytical Method: TPH by SW80	15 Mod					Prep Method: SW8	3015P	
Analytical Method:TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3136233	15 Mod	Date Pre	p: 09.02.	.2020 14:00		% Moisture:	3015P Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Prej <b>Result</b>	p: 09.02. <b>RL</b>	.2020 14:00	Units	% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3136233 Parameter			-	.2020 14:00	Units mg/kg	% Moisture: Basis: Wet	Weight	<b>Dil</b>
Tech: DTH Analyst: DTH Seq Number: 3136233	Cas Number	Result	RL	.2020 14:00		% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3136233 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result	RL 49.9	.2020 14:00	mg/kg	% Moisture: Basis: Wet Analysis Date 09.02.2020 16:23	Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3136233 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <49.9 <49.9	<b>RL</b> 49.9 49.9	.2020 14:00	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 09.02.2020 16:23 09.02.2020 16:23	Weight Flag U U	1
Tech: DTH Analyst: DTH Seq Number: 3136233 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	<b>Result</b> <49.9 <49.9 <49.9	<b>RL</b> 49.9 49.9 49.9	.2020 14:00	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 09.02.2020 16:23 09.02.2020 16:23 09.02.2020 16:23	Weight Flag U U U	1 1 1
Tech: DTH Analyst: DTH Seq Number: 3136233 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	<b>Cas Number</b> PHC610 C10C28DRO PHCG2835 PHC628 PHC635	<b>Result</b> <49.9 <49.9 <49.9 <49.9 <49.9	<b>RL</b> 49.9 49.9 49.9 49.9	.2020 14:00 Units	mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet 4nalysis Date 09.02.2020 16:23 09.02.2020 16:23 09.02.2020 16:23 09.02.2020 16:23 09.02.2020 16:23 09.02.2020 16:23	Weight Flag U U U U U	1 1 1 1
Tech: DTH Analyst: DTH Seq Number: 3136233 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	Cas Number PHC610 C10C28DR0 PHCG2835 PHC628 PHC635	<b>Result</b> <49.9 <49.9 <49.9 <49.9 <49.9	<b>RL</b> 49.9 49.9 49.9 49.9 49.9 49.9		mg/kg mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 09.02.2020 16:23 09.02.2020 16:23 09.02.2020 16:23 09.02.2020 16:23 09.02.2020 16:23 09.02.2020 16:23 09.02.2020 16:23	Weight Flag U U U U U U	1 1 1 1

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# **Certificate of Analytical Results 671625**

### WSP USA, Dallas, TX PLU PC 28 BATT

Sample Id: Lab Sample I	<b>CH02 A</b> d: 671625-004	Matrix: Date Collected	Soil d: 09.01.2020 12:30	Date Received Sample Depth	l:09.02.2020 12:25 : 7.5 ft
Analytical Mo Tech:	ethod: BTEX by EPA 8021B MAB			Prep Method:	SW5035A
Analyst:	MAB	Date Prep:	09.02.2020 14:29	% Moisture: Basis:	Wet Weight
Seq Number:	3136275				wet weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	09.02.2020 19:12	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	09.02.2020 19:12	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	09.02.2020 19:12	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	09.02.2020 19:12	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	09.02.2020 19:12	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	09.02.2020 19:12	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	09.02.2020 19:12	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	98	%	70-130	09.02.2020 19:12		
1,4-Difluorobenzene		540-36-3	103	%	70-130	09.02.2020 19:12		

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# **Flagging Criteria**

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Sam	ple Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	l for this compound.			

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

#### **QC Summary** 671625

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#### WSP USA PLU PC 28 BATT

Analytical Method: Seq Number: MB Sample Id:	<b>Chloride by</b> 3136283 7710696-1- <b>I</b>		00		Matrix: nple Id:	Solid 7710696-1	1-BKS			ep Metho Date Pro D Sample	ep: 09.0	0P 02.2020 0696-1-BSD	
Parameter		MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
Chloride		<b>Result</b> <10.0	Amount 250	Result 266	<b>%Rec</b> 106	Result 268	<b>%Rec</b> 107	90-110	1	Limit 20	mg/kg	<b>Date</b> 09.02.2020 16:08	
Analytical Method: Seq Number:	Chloride by 3136283	7 EPA 30	00		Matrix:	Soil			Pı	ep Metho Date Pro		0P )2.2020	
Parent Sample Id:	671625-001					671625-00	01 S		MS		-	625-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		325	200	533	104	533	104	90-110	0	20	mg/kg	09.02.2020 16:25	
Analytical Method: Seq Number:	Chloride by 3136283	7 EPA 30	)0		Matrix:	Soil			Pı	ep Metho Date Pro		0P 02.2020	
Parent Sample Id:	671630-007					671630-00	07 S		MS		-	630-007 SD	
Parameter	0/1020 00/	Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	Flag
Chloride		Result 215	Amount 199	Result 420	%Rec 103	Result 420	%Rec 103	90-110	0	Limit 20	mg/kg	<b>Date</b> 09.02.2020 17:43	0
Analytical Method: Seq Number:	<b>TPH by SW</b> 3136233	/8015 M	od		Matrix:	Solid			Pi	ep Metho Date Pro		8015P 02.2020	
MB Sample Id:	7710673-1-H	BLK		LCS Sar	nple Id:	7710673-	1-BKS		LCS	D Sample	e Id: 771	0673-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb		<50.0	1000	832	83	823	82	70-135	1	35	mg/kg	09.02.2020 11:50	
Diesel Range Organics	(DRO)	<50.0	1000	940	94	920	92	70-135	2	35	mg/kg	09.02.2020 11:50	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date	
1-Chlorooctane		93			11		108			-135	%	09.02.2020 11:50	
o-Terphenyl		100		1	10		107		70	-135	%	09.02.2020 11:50	
									-			001 50	
Analytical Method: Seq Number:	TPH by SW 3136233	8015 M	od		Matrix:	Solid			Pı	ep Metho Date Pro		8015P 02.2020	
2041 (00000)	0100200					7710673-1	1-BLK			Ductin	-p. 09.0		
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar				Lubur								~ uiv	
	bons (MRO)			<50.0							mg/kg	09.02.2020 11:30	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Final 1.001
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# WSP USA

### PLU PC 28 BATT

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>TPH by SV</b> 3136233 671640-00		od		Matrix: nple Id:	Soil 671640-00	01 S			rep Meth Date Pr D Sample	ep: 09.0	8015P )2.2020 640-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<49.9	998	835	84	813	81	70-135	3	35	mg/kg	09.02.2020 15:03	
Diesel Range Organics (	DRO)	<49.9	998	939	94	922	92	70-135	2	35	mg/kg	09.02.2020 15:03	
Surrogate					1S Rec	MS Flag	MSE %Re			imits	Units	Analysis Date	
1-Chlorooctane				1	15		111		70	-135	%	09.02.2020 15:03	
o-Terphenyl				1	13		110	)	70	-135	%	09.02.2020 15:03	

Analytical Method:	BTEX by EPA 8021	B						P	rep Metho	od: SW	5035A	
Seq Number:	3136275		]	Matrix:	Solid				Date Pr	ep: 09.0	02.2020	
MB Sample Id:	7710698-1-BLK		LCS San	nple Id:	7710698-1	I-BKS		LCS	D Sample	e Id: 771	0698-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0961	96	0.0968	97	70-130	1	35	mg/kg	09.02.2020 16:14	
Toluene	< 0.00200	0.100	0.0905	91	0.0925	93	70-130	2	35	mg/kg	09.02.2020 16:14	
Ethylbenzene	< 0.00200	0.100	0.0942	94	0.0961	96	71-129	2	35	mg/kg	09.02.2020 16:14	
m,p-Xylenes	< 0.00400	0.200	0.190	95	0.194	97	70-135	2	35	mg/kg	09.02.2020 16:14	
o-Xylene	< 0.00200	0.100	0.0954	95	0.0975	98	71-133	2	35	mg/kg	09.02.2020 16:14	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSE %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene	101		10	00		101		70	-130	%	09.02.2020 16:14	
4-Bromofluorobenzene	98		9	2		92		70	-130	%	09.02.2020 16:14	

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 802</b> 3136275 671625-001	lB		Matrix: nple Id:	Soil 671625-00	)1 S			rep Methe Date Pr D Sample	ep: 09.0	5035A )2.2020 625-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0994	0.0927	93	0.105	105	70-130	12	35	mg/kg	09.03.2020 01:54	
Toluene	< 0.00199	0.0994	0.0863	87	0.0963	96	70-130	11	35	mg/kg	09.03.2020 01:54	
Ethylbenzene	< 0.00199	0.0994	0.0903	91	0.0943	94	71-129	4	35	mg/kg	09.03.2020 01:54	
m,p-Xylenes	< 0.00398	0.199	0.178	89	0.185	93	70-135	4	35	mg/kg	09.03.2020 01:54	
o-Xylene	< 0.00199	0.0994	0.0912	92	0.0897	90	71-133	2	35	mg/kg	09.03.2020 01:54	
Surrogate				IS Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene			ç	97		101		70	-130	%	09.03.2020 01:54	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

4-Bromofluorobenzene

 $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

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MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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09.03.2020 01:54

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70-130

%

Recei	J.	Na-let	Relinquished by: (Signature)	of service: Signature of this docume of service. Xenco will be liable of Xenco. A minimum charge of	Circle Method(s) and	5:42:	:24				CHOZ	CHOO	CHOI	CHO	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name: Ben	P.O. Number:	Project Number:	Project Name:	Phone: 432	City, State ZIP: Mid	Address: 330	Company Name: LT I	Project Manager:	Page		\$	44
		El Whit 1		Wotice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcom We 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 the 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	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed						1 1 A 20	2	104	11 5 4/1	7	Yes ( No) N/A	Yes No NIA	es N	2.4/2.2	Temp Blank: Yes	Benjamin Belill	012919250	288-5697	PU PC 28 BK	432.236.3849	Midland, TX 79705	3300 North A Street	LT Environmental, Inc., Permi	Dan Moir		(ENCO		
	1.	M	Received by: (Signature)	constitutes a valid purchase or all not assume any responsibili act and a charge of \$5 for each	8RCRA 13PPM Texas 11 A TCLP / SPLP 6010: 8RCRA		4	(1)			1230 7.5	1000	L cohl	10 1300 1	e Time Depth led Sampled Depth	Total Containers: 4	Correction Factor: - 0 -	TN MOOT	Thermometer ID	No Wet Ice: Yes	Due Date:	Rush:	Routine	Turn Around	Email: bbelill@ltenv.com	City, St	Address:	Permian office Compa	Bill to:	Midland, TX (43 Hobbs, NM (575-392-7550)	Houston, TX (28		
	-	9-2-20/11:00W	Date/Time	ler from client company to Xenco, y for any losses or expenses incur sample submitted to Xenco, but no	Texas 11 Al Sb As Ba Be 10: 8RCRA Sb As Ba Be			111 0	04/10 1	,	S' J V V J			· ( V X )	STPH (EF	PA 80	015) 0=8(	021)		No				nd	@ltenv.com	City, State ZIP: Carlsbad, NM 88220		Company Name: XTO Energy	Bill to: (if different) Kyle Littrell	Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800	) 240-4200 Dallas,TX (214) 902	Chain of	
Ø	4	m2 White MAY	Relinquished by: (Signature)	Wotice: 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 were very 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 contro will be induced by the client if such losses are due to circumstances beyond the contro 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.	B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo N Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U									X			- 4 3		,					ANALYSIS REQUEST		8220	Street			i85-3443 Lubbock,TX (806)794-1296 nta,GA (770-449-8800) Tampa,FL (813-620-2000)	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334	Chain of Custody	
	9		ture) Received by: (Signature)	tractors. It assigns standard terms and conditions losses are due to circumstances beyond the control will be enforced unless previously negotiated.	Ag SiO2																			UEST	Deliverables: EDD	Reporting:Level II evel III ST/UST	State of Project:	Program: UST/PST PRP Brownfields	Work Order Comments	13-620-2000) <u>www.xenco.com</u>		Work Order No:	
Revised Date 051418 Rev. 2018.1		9/2/20 12:25	Date/Time		Na Sr TI Sn U V Zn 1631/245.1/7470/7471:Hg										Sample Comments	lab, if received by 4:30pm	AT starts the day recevied by the							Work Order Notes	Other:			Ids RC Uperfund	nments	Page of	12	Work Order No: 671625	

### **Eurofins Xenco, LLC**

### Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature R	ange: 0 - 6 degC
Date/ Time Received: 09.02.2020 12.25.00 PM	Air and Metal samples Acc	eptable Range: Ambient
Work Order #: 671625	Temperature Measuring de	evice used : T_NM_007
Sample Recei	pt Checklist	Comments
#1 *Temperature of cooler(s)?	2.2	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	Samples received in bulk containers.
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

#### \* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 09.02.2020

Checklist reviewed by: Jessica Wramer

Date: 09.03.2020

Released to Imaging: 4/8/2021 3:32:01 PM

🔅 eurofins

Project Id:

**Project Location:** 

**Contact:** 

Environment Testing Xenco

Dan Moir

# Certificate of Analysis Summary 643720

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WSP USA, Dallas, TX

#### Project Name: PLU PC 28 Battery - Spill Date 11/13/2019

 Date Received in Lab:
 Tue 11.19.2019 15:40

 Report Date:
 11.24.2020 09:39

Project Manager: Jessica Kramer

	Lab Id:	643720-0	001	643720-00	02	643720-0	03	643720-0	04	643720-0	05	643720-0	006
Analysis Requested	Field Id:	SS01		SS02		SS03		SS04		SS05		SS06	
Analysis Requested	Depth:	0.5- ft		0.5- ft		0.5- ft		0.5- ft		0.5- ft		0.5- ft	
	Matrix:	SOIL		SOIL	SOIL		SOIL			SOIL		SOIL	
	Sampled:	11.18.2019	10:15	11.18.2019	10:30	11.18.2019	11.18.2019 10:45		11:00	11.18.2019 11:15		11.18.2019	11:30
BTEX by EPA 8021B	Extracted:	11.19.2019	17:11	11.19.2019	17:11	11.19.2019	17:11	11.19.2019	17:11	11.19.2019	17:11	11.19.2019	17:11
	Analyzed:	11.20.2019	00:36	11.20.2019 (	01:14	11.20.2019	01:33	11.20.2019 (	01:52	11.20.2019 (	02:11	11.20.2019	00:55
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		0.00469	0.00200	15.3	1.00	10.2	0.402	8.49	0.201	15.9	1.01	0.0130	0.00198
Toluene		0.00310	0.00200	107	1.00	68.1	0.402	79.1 D	1.00	92.0	1.01	0.0221	0.00198
Ethylbenzene		< 0.00200	0.00200	30.0	1.00	22.8	0.402	16.9	0.201	25.9	1.01	0.00580	0.00198
m,p-Xylenes		0.00208	0.00200	129	1.00	93.6	0.402	69.0	0.201	105	1.01	0.0277	0.00198
o-Xylene		< 0.00200	0.00200	43.1	1.00	33.4	0.402	24.3	0.201	35.8	1.01	0.00954	0.00198
Total Xylenes		0.00208	0.00200	172	1.00	127	0.402	93.3	0.201	141	1.01	0.0372	0.00198
Total BTEX		0.00987	0.00200	324	1.00	228	0.402	198	0.201	275	1.01	0.0781	0.00198
Chloride by EPA 300	Extracted:	11.19.2019	18:11	11.19.2019	18:11	11.19.2019	18:11	11.19.2019	18:11	11.19.2019	18:11	11.19.2019	18:11
	Analyzed:	11.19.2019	20:16	11.19.2019 2	20:22	11.19.2019	20:27	11.19.2019	20:33	11.19.2019	20:39	11.19.2019	20:45
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		56.7	10.0	8450	504	5100	504	12000	202	718	49.9	2580	99.6
TPH by SW8015 Mod	Extracted:	11.19.2019	16:30	11.19.2019	16:30	11.19.2019	16:30	11.19.2019	16:30	11.19.2019	16:30	11.19.2019	16:30
	Analyzed:	11.20.2019	01:10	11.20.2019	11:07	11.20.2019	11:47	11.20.2019	12:27	11.20.2019	13:38	11.20.2019	10:27
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		< 50.2	50.2	7400	249	4020	251	2600	251	4480	251	<50.2	50.2
Diesel Range Organics (DRO)		<50.2	50.2	17500	249	10500	251	6560	251	8800	251	148	50.2
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	1320	249	839	251	524	251	816	251	57.5	50.2
Total GRO-DRO		<50.2	50.2	24900	249	14500	251	9160	251	13300	251	148	50.2
Total TPH		<50.2	50.2	26200	249	15400	251	9680	251	14100	251	206	50.2

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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# Analytical Report 643720

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### for

### WSP USA

### **Project Manager: Dan Moir**

PLU PC 28 Battery - Spill Date 11/13/2019

### 11.24.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing Xenco

2777 N. Stemmons Freeway, Suite 1600

Reference: Eurofins Xenco, LLC Report No(s): 643720 PLU PC 28 Battery - Spill Date 11/13/2019 Project Address:

#### Dan Moir:

Dallas, TX 75207

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 643720. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 643720 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession beamer

Jessica Kramer Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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# Sample Cross Reference 643720

### WSP USA, Dallas, TX

PLU PC 28 Battery - Spill Date 11/13/2019

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	11.18.2019 10:15	0.5 ft	643720-001
SS02	S	11.18.2019 10:30	0.5 ft	643720-002
SS03	S	11.18.2019 10:45	0.5 ft	643720-003
SS04	S	11.18.2019 11:00	0.5 ft	643720-004
SS05	S	11.18.2019 11:15	0.5 ft	643720-005
SS06	S	11.18.2019 11:30	0.5 ft	643720-006

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### **CASE NARRATIVE**

Client Name: WSP USA Project Name: PLU PC 28 Battery - Spill Date 11/13/2019

Project ID: Work Order Number(s): 643720 Report Date: *11.24.2020* Date Received: *11.19.2019* 

#### Sample receipt non conformances and comments:

Corrected project name per clients email request. New version generated. JK 12/09/19

Sample receipt non conformances and comments per sample:

None

#### Analytical non conformances and comments: Batch: LBA-3108004 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3108033 TPH by SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 643720-002.

Surrogate 1-Chlorooctane recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 643720-002,643720-003,643720-005.

# **Certificate of Analytical Results 643720**

### WSP USA, Dallas, TX

PLU PC 28 Battery - Spill Date 11/13/2019

Sample Id: <b>SS01</b> Lab Sample Id: 643720-001		Matrix Date C	Soil Soil	3.2019 10:15		Date Received:11.19 Sample Depth: 0.5 f		:40
Analytical Method: Chloride by EP	A 300					Prep Method: E300	)P	
Tech: MAB								
Analyst: MAB		Date Pr	ep: 11.19	9.2019 18:11		% Moisture:	<b>W</b> 7 * 17	
Seq Number: 3108003						Basis: Wet	Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	56.7	10.0		mg/kg	11.19.2019 20:16		1
Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3108033	15 Mod	Date Pr	rep: 11.19	9.2019 16:30		Prep Method: SW8 % Moisture: Basis: Wet	015P Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	11.20.2019 01:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2		mg/kg	11.20.2019 01:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2		mg/kg	11.20.2019 01:10	U	1
Total GRO-DRO	PHC628	<50.2	50.2		mg/kg	11.20.2019 01:10	U	1
Total TPH	PHC635	<50.2	50.2		mg/kg	11.20.2019 01:10	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	s Analysis Date	Flag	
1-Chlorooctane		111-85-3	77	%	70-135	11.20.2019 01:10		
o-Terphenyl		84-15-1	80	%	70-135	11.20.2019 01:10		
# **Certificate of Analytical Results 643720**

### WSP USA, Dallas, TX

PLU PC 28 Battery - Spill Date 11/13/2019

Sample Id: SS01 Lab Sample Id: 643720-001		Matrix: Date Collecte	Soil d: 11.18.2019 10:15		Date Received:11.19.2019 15:40 Sample Depth: 0.5 ft	
Analytical Method: BTEX by EPA	8021B				Prep Method: SW5030B	
Tech: MAB Analyst: MAB		Date Prep:	11.19.2019 17:11		% Moisture: Basis: Wet Weight	
Seq Number: 3108004					Dusis. Wet weight	
Parameter	Cas Number	Result RI		Units	Analysis Date Flag I	Dil

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00469	0.00200		mg/kg	11.20.2019 00:36		1
Toluene	108-88-3	0.00310	0.00200		mg/kg	11.20.2019 00:36		1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	11.20.2019 00:36	U	1
m,p-Xylenes	179601-23-1	0.00208	0.00200		mg/kg	11.20.2019 00:36		1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	11.20.2019 00:36	U	1
Total Xylenes	1330-20-7	0.00208	0.00200		mg/kg	11.20.2019 00:36		1
Total BTEX		0.00987	0.00200		mg/kg	11.20.2019 00:36		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	107	%	70-130	11.20.2019 00:36		
4-Bromofluorobenzene		460-00-4	118	%	70-130	11.20.2019 00:36		

# **Certificate of Analytical Results 643720**

#### WSP USA, Dallas, TX

PLU PC 28 Battery - Spill Date 11/13/2019

Sample Id: <b>SS02</b> Lab Sample Id: 643720-002		Matrix Date C	: Soil ollected: 11.18	3.2019 10:30		Date Received:11.19 Sample Depth: 0.5 f		40
Analytical Method: Chloride by EPA	A 300					Prep Method: E300	)P	
Tech: MAB								
Analyst: MAB		Date P	rep: 11.19	9.2019 18:11		% Moisture:		
Seq Number: 3108003						Basis: Wet	Weight	
Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8450	504		mg/kg	11.19.2019 20:22		50
Analytical Method: TPH by SW801: Tech: DTH Analyst: DTH Seq Number: 3108033	5 Mod	Date P	rep: 11.19	9.2019 16:30		Prep Method: SW8 % Moisture: Basis: Wet	015P Weight	
Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	7400	249		mg/kg	11.20.2019 11:07		5
Diesel Range Organics (DRO)	C10C28DRO	17500	249		mg/kg	11.20.2019 11:07		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	1320	249		mg/kg	11.20.2019 11:07		5
Total GRO-DRO	PHC628	24900	249		mg/kg	11.20.2019 11:07		5
Total TPH	PHC635	26200	249		mg/kg	11.20.2019 11:07		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	191	%	70-135	11.20.2019 11:07	**	
o-Terphenyl		84-15-1	137	%	70-135	11.20.2019 11:07	**	

# **Certificate of Analytical Results 643720**

#### WSP USA, Dallas, TX

PLU PC 28 Battery - Spill Date 11/13/2019

Sample Id: SS02		Matrix:	Soil		Date Received:11.1	19.2019 15	:40
Lab Sample Id: 643720-002		Date Col	lected: 11.18.2019 10:3	80	Sample Depth: 0.5	ft	
Analytical Method: BTEX by EP	A 8021B				Prep Method: SW	5030B	
Tech: MAB							
Analyst: MAB		Date Pre	p: 11.19.2019 17:1	1	% Moisture: Basis: We	t Weight	
Seq Number: 3108004						t weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	15.3	1.00	mg/kg	11.20.2019 01:14		500
Toluono	109 99 2	107	1.00	ma/ka	11 20 2010 01.14		500

2.		/1 10 1	10.00	1.00			1112012012 0111		000	
То	oluene	108-88-3	107	1.00		mg/kg	11.20.2019 01:14		500	
Et	hylbenzene	100-41-4	30.0	1.00		mg/kg	11.20.2019 01:14		500	
m,	,p-Xylenes	179601-23-1	129	1.00		mg/kg	11.20.2019 01:14		500	
<b>o-</b> 2	Xylene	95-47-6	43.1	1.00		mg/kg	11.20.2019 01:14		500	
Тс	otal Xylenes	1330-20-7	172	1.00		mg/kg	11.20.2019 01:14		500	
To	otal BTEX		324	1.00		mg/kg	11.20.2019 01:14		500	
	Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
	1,4-Difluorobenzene		540-36-3	103	%	70-130	11.20.2019 01:14			
	4-Bromofluorobenzene		460-00-4	103	%	70-130	11.20.2019 01:14			

#### WSP USA, Dallas, TX

PLU PC 28 Battery - Spill Date 11/13/2019

Sample Id: <b>SS03</b> Lab Sample Id: 643720-003		Matrix Date C	: Soil ollected: 11.18	3.2019 10:45		Date Received:11.1 Sample Depth: 0.5 f		:40
Analytical Method: Chloride by EPA	A 300					Prep Method: E300	)P	
Tech: MAB								
Analyst: MAB		Date P	rep: 11.19	0.2019 18:11		% Moisture:	<b>X</b> 7 • 1 /	
Seq Number: 3108003						Basis: Wet	Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5100	504		mg/kg	11.19.2019 20:27		50
Analytical Method:TPH by SW801Tech:DTHAnalyst:DTHSeq Number:3108033	5 Mod	Date P	rep: 11.19	0.2019 16:30		Prep Method: SW8 % Moisture: Basis: Wet	8015P Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	4020	251		mg/kg	11.20.2019 11:47		5
Diesel Range Organics (DRO)	C10C28DRO	10500	251		mg/kg	11.20.2019 11:47		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	839	251		mg/kg	11.20.2019 11:47		5
Total GRO-DRO	PHC628	14500	251		mg/kg	11.20.2019 11:47		5
Total TPH	PHC635	15400	251		mg/kg	11.20.2019 11:47		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane								
1-Chiorooctane		111-85-3	139	%	70-135	11.20.2019 11:47	**	

# **Certificate of Analytical Results 643720**

# WSP USA, Dallas, TX

PLU PC 28 Battery - Spill Date 11/13/2019

D		<b>51</b> 12 2	10.0	0.400	4	11 20 2010 0	1.00		200
Parameter		Cas Number	Result	RL	Units	Analysis D	ate	Flag	Dil
Seq Number:	3108004					Da515.	wet	Weight	
Analyst:	MAB		Date Prep	b: 11.19.2019 17:1	1	% Moisture: Basis:	Wat	Weight	
Tech:	MAB								
Analytical Me	ethod: BTEX by EPA	A 8021B				Prep Method:	SW5	5030B	
Lab Sample I	d: 643720-003		Date Coll	lected: 11.18.2019 10:4	5	Sample Deptl	n: 0.5 f	ť	
Sample Id:	SS03		Matrix:	Soil		Date Receive	d:11.1	9.2019 15	:40

Benzene	71-43-2	10.2	0.402		mg/kg	11.20.2019 01:33		200
Toluene	108-88-3	68.1	0.402		mg/kg	11.20.2019 01:33		200
Ethylbenzene	100-41-4	22.8	0.402		mg/kg	11.20.2019 01:33		200
m,p-Xylenes	179601-23-1	93.6	0.402		mg/kg	11.20.2019 01:33		200
o-Xylene	95-47-6	33.4	0.402		mg/kg	11.20.2019 01:33		200
Total Xylenes	1330-20-7	127	0.402		mg/kg	11.20.2019 01:33		200
Total BTEX		228	0.402		mg/kg	11.20.2019 01:33		200
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	107	%	70-130	11.20.2019 01:33		
1,4-Difluorobenzene		540-36-3	100	%	70-130	11.20.2019 01:33		

#### WSP USA, Dallas, TX

PLU PC 28 Battery - Spill Date 11/13/2019

Sample Id: <b>SS04</b> Lab Sample Id: 643720-004		Matrix:	Soil Soil	2010 11.00		Date Received:11.19 Sample Depth: 0.5 f		40
Lao Sample Id. 643720-004		Date C	offected: 11.16	5.2019 11:00		Sample Depui. 0.5 I	L	
Analytical Method: Chloride by EPA	A 300					Prep Method: E300	)P	
Tech: MAB								
Analyst: MAB		Date Pr	rep: 11.19	0.2019 18:11		% Moisture:	*** * 1 /	
Seq Number: 3108003						Basis: Wet	Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12000	202		mg/kg	11.19.2019 20:33		20
Analytical Method: TPH by SW801 Tech: DTH Analyst: DTH Seq Number: 3108033	5 Mod	Date Pr	rep: 11.19	0.2019 16:30		Prep Method: SW8 % Moisture: Basis: Wet	015P Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	2600	251		mg/kg	11.20.2019 12:27		5
Diesel Range Organics (DRO)	C10C28DRO	6560	251		mg/kg	11.20.2019 12:27		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	524	251		mg/kg	11.20.2019 12:27		5
Total GRO-DRO	PHC628	9160	251		mg/kg	11.20.2019 12:27		5
Total TPH	PHC635	9680	251		mg/kg	11.20.2019 12:27		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	105	%	70-135	11.20.2019 12:27		
				,,,				

# **Certificate of Analytical Results 643720**

#### WSP USA, Dallas, TX

PLU PC 28 Battery - Spill Date 11/13/2019

Sample Id: SS04 Lab Sample Id: 643720-004		Matrix: Date Colle	Soil ected: 11.18.2019 11:00	I	Date Received:11 Sample Depth: 0.5		:40
Analytical Method: BTEX by EPA	8021B				Prep Method: SV	V5030B	
Tech:MABAnalyst:MABSeq Number:3108004		Date Prep	: 11.19.2019 17:11		% Moisture: Basis: W	et Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	8.49	0.201	mg/kg	11.20.2019 01:52		100

nzene	/1-43-2	8.49	0.201		mg/kg	11.20.2019 01:52		100	
luene	108-88-3	79.1	1.00		mg/kg	11.20.2019 13:02	D	500	
ıylbenzene	100-41-4	16.9	0.201		mg/kg	11.20.2019 01:52		100	
p-Xylenes	179601-23-1	69.0	0.201		mg/kg	11.20.2019 01:52		100	
Kylene	95-47-6	24.3	0.201		mg/kg	11.20.2019 01:52		100	
tal Xylenes	1330-20-7	93.3	0.201		mg/kg	11.20.2019 01:52		100	
tal BTEX		198	0.201		mg/kg	11.20.2019 13:02		500	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene		460-00-4	118	%	70-130	11.20.2019 01:52			
1,4-Difluorobenzene		540-36-3	99	%	70-130	11.20.2019 01:52			
	uene yylbenzene -Xylenes ylene tal Xylenes tal BTEX Surrogate 4-Bromofluorobenzene	uene       108-88-3         nylbenzene       100-41-4         >-Xylenes       179601-23-1         fylene       95-47-6         tal Xylenes       1330-20-7         sal BTEX       Surrogate         4-Bromofluorobenzene       100-41-4	uene     108-88-3     79.1       nylbenzene     100-41-4     16.9       p-Xylenes     179601-23-1     69.0       fylene     95-47-6     24.3       ial Xylenes     1330-20-7     93.3       ial BTEX     198       Surrogate     Cas Number       4-Bromofluorobenzene     460-00-4	uene     108-88-3 <b>79.1</b> 1.00       nylbenzene     100-41-4 <b>16.9</b> 0.201       o-Xylenes     179601-23-1 <b>69.0</b> 0.201       tylene     95-47-6 <b>24.3</b> 0.201       tal Xylenes     1330-20-7 <b>93.3</b> 0.201       surrogate     Cas Number     % Recovery       4-Bromofluorobenzene     460-00-4     118	uene     108-88-3     79.1     1.00       nylbenzene     100-41-4     16.9     0.201       o-Xylenes     179601-23-1     69.0     0.201       tylene     95-47-6     24.3     0.201       tal Xylenes     1330-20-7     93.3     0.201       sal BTEX     198     0.201       Surrogate       4-Bromofluorobenzene     460-00-4     118	uene       108-88-3       79.1       1.00       mg/kg         nylbenzene       100-41-4       16.9       0.201       mg/kg         p-Xylenes       179601-23-1       69.0       0.201       mg/kg         gylbenzene       95-47-6       24.3       0.201       mg/kg         gylene       95-47-6       24.3       0.201       mg/kg         gal Xylenes       1330-20-7       93.3       0.201       mg/kg         gal BTEX       198       0.201       mg/kg         Surrogate       Cas Number       % Recovery       Units       Limits         4-Bromofluorobenzene       460-00-4       118       %       70-130	uene       108-88-3 <b>79.1</b> 1.00       mg/kg       11.20.2019       13:02         nylbenzene       100-41-4 <b>16.9</b> 0.201       mg/kg       11.20.2019       01:52 <b>b-Xylenes</b> 179601-23-1 <b>69.0</b> 0.201       mg/kg       11.20.2019       01:52 <b>cylene</b> 95-47-6 <b>24.3</b> 0.201       mg/kg       11.20.2019       01:52 <b>cylenes</b> 1330-20-7 <b>93.3</b> 0.201       mg/kg       11.20.2019       01:52         al BTEX       138       0.201       mg/kg       11.20.2019       01:52         Surrogate       Cas Number       % Recovery       Units       Limits       Analysis Date         4-Bromofluorobenzene       460-00-4       118       %       70-130       11.20.2019       01:52	uene       108-88-3 <b>79.1</b> 1.00       mg/kg       11.20.2019       13:02       D         nylbenzene       100-41-4 <b>16.9</b> 0.201       mg/kg       11.20.2019       01:52         o-Xylenes       179601-23-1 <b>69.0</b> 0.201       mg/kg       11.20.2019       01:52         fylene       95-47-6 <b>24.3</b> 0.201       mg/kg       11.20.2019       01:52         fal Xylenes       1330-20-7 <b>93.3</b> 0.201       mg/kg       11.20.2019       01:52         fal Xylenes       1330-20-7 <b>93.3</b> 0.201       mg/kg       11.20.2019       01:52         fal BTEX       198       0.201       mg/kg       11.20.2019       01:52         Surrogate       Cas Number       % Recovery       Units       Limits       Analysis Date       Flag         4-Bromofluorobenzene       460-00-4       118       %       70-130       11.20.2019       01:52	uene       108-88-3 <b>79.1</b> 1.00       mg/kg       11.20.2019 13:02       D       500         nylbenzene       100-41-4 <b>16.9</b> 0.201       mg/kg       11.20.2019 01:52       100 <b>&gt;-Xylenes</b> 179601-23-1 <b>69.0</b> 0.201       mg/kg       11.20.2019 01:52       100 <b>(ylene</b> 95-47-6 <b>24.3</b> 0.201       mg/kg       11.20.2019 01:52       100 <b>(xlenes</b> 1330-20-7 <b>93.3</b> 0.201       mg/kg       11.20.2019 01:52       100 <b>(xlenes</b> 1330-20-7 <b>93.3</b> 0.201       mg/kg       11.20.2019 01:52       100 <b>(xal Xylenes</b> 1330-20-7 <b>93.3</b> 0.201       mg/kg       11.20.2019 01:52       100 <b>(xal Xylenes</b> 1300-20-7 <b>93.3</b> 0.201       mg/kg       11.20.2019 01:52       500 <b>Surrogate Cas Number % Recovery Units Limits Analysis Date Flag</b> 4-Bromofluorobenzene       460-00-4       118       %       70-130       11.20.2019 01:52       11.20.2019 01:52

# **Certificate of Analytical Results 643720**

#### WSP USA, Dallas, TX

PLU PC 28 Battery - Spill Date 11/13/2019

Sample Id: <b>SS05</b> Lab Sample Id: 643720-005		Matrix Date C	: Soil ollected: 11.18	3.2019 11:15		Date Received:11.19 Sample Depth: 0.5 f		40
Analytical Method: Chloride by EPA	A 300					Prep Method: E300	)P	
Tech: MAB						0/ Maistan		
Analyst: MAB		Date P	rep: 11.19	0.2019 18:11		% Moisture: Basis: Wet	Weight	
Seq Number: 3108003							weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	718	49.9		mg/kg	11.19.2019 20:39		5
Analytical Method: TPH by SW801: Tech: DTH Analyst: DTH Seq Number: 3108033	5 Mod	Date Pr	rep: 11.19	9.2019 16:30		Prep Method: SW8 % Moisture: Basis: Wet	015P Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	4480	251		mg/kg	11.20.2019 13:38		5
Diesel Range Organics (DRO)	C10C28DRO	8800	251		mg/kg	11.20.2019 13:38		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	816	251		mg/kg	11.20.2019 13:38		5
Total GRO-DRO	PHC628	13300	251		mg/kg	11.20.2019 13:38		5
Total TPH	PHC635	14100	251		mg/kg	11.20.2019 13:38		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	137	%	70-135	11.20.2019 13:38	**	
o-Terphenyl		84-15-1	127	%	70-135	11.20.2019 13:38		

# **Certificate of Analytical Results 643720**

#### WSP USA, Dallas, TX

PLU PC 28 Battery - Spill Date 11/13/2019

Sample Id: <b>SS05</b> Lab Sample Id: 643720-005		Matrix: Date Colle	Soil ected: 11.18.2019 11:15		Date Received Sample Depth			40
Analytical Method: BTEX by EPA 8	021B				Prep Method:	SW50	)30B	
Tech: MAB					0/ <b>3</b> 5 • ·			
Analyst: MAB		Date Prepa	11.19.2019 17:11		% Moisture: Basis:	Wet V	Veight	
Seq Number: 3108004					200101		vergitt	
Parameter	Cas Number	Result	RL	Units	Analysis D	ate	Flag	Dil
Benzene	71-43-2	15.9	1.01	mg/kg	11.20.2019 0	2:11		500

	Delizene	/1-43-2	13.9	1.01		mg/kg	11.20.2019 02.11		500	
	Toluene	108-88-3	92.0	1.01		mg/kg	11.20.2019 02:11		500	
	Ethylbenzene	100-41-4	25.9	1.01		mg/kg	11.20.2019 02:11		500	
1	m,p-Xylenes	179601-23-1	105	1.01		mg/kg	11.20.2019 02:11		500	
	o-Xylene	95-47-6	35.8	1.01		mg/kg	11.20.2019 02:11		500	
	Total Xylenes	1330-20-7	141	1.01		mg/kg	11.20.2019 02:11		500	
	Total BTEX		275	1.01		mg/kg	11.20.2019 02:11		500	
	Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
	1,4-Difluorobenzene		540-36-3	102	%	70-130	11.20.2019 02:11			
	4-Bromofluorobenzene		460-00-4	105	%	70-130	11.20.2019 02:11			

# **Certificate of Analytical Results 643720**

#### WSP USA, Dallas, TX

PLU PC 28 Battery - Spill Date 11/13/2019

Sample Id: SS06 Lab Sample Id: 643720-006		Matrix Date C	: Soil collected: 11.18	.2019 11:30		Date Received:11.19 Sample Depth: 0.5 ft		40
Analytical Method: Chloride by EP	A 300					Prep Method: E300	)P	
Tech: MAB						-		
Analyst: MAB		Date P	rep: 11.19	.2019 18:11		% Moisture:		
Seq Number: 3108003			1			Basis: Wet	Weight	
Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2580	99.6		mg/kg	11.19.2019 20:45		10
Analytical Method:TPH by SW801Tech:DTHAnalyst:DTHSeq Number:3108033	5 Mod	Date P	rep: 11.19	.2019 16:30		Prep Method: SW8 % Moisture: Basis: Wet	015P Weight	
Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	11.20.2019 10:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	148	50.2		mg/kg	11.20.2019 10:27		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	57.5	50.2		mg/kg	11.20.2019 10:27		1
Total GRO-DRO	PHC628	148	50.2		mg/kg	11.20.2019 10:27		1
Total TPH	PHC635	206	50.2		mg/kg	11.20.2019 10:27		1
Surrogate		Cas Number	% Recovery	Units	Limits	s Analysis Date	Flag	
1-Chlorooctane		111-85-3	73	%	70-135	11.20.2019 10:27		
o-Terphenyl		84-15-1	76	%	70-135	11.20.2019 10:27		

# **Certificate of Analytical Results 643720**

#### WSP USA, Dallas, TX

PLU PC 28 Battery - Spill Date 11/13/2019

Sample Id: Lab Sample Id	<b>SS06</b> d: 643720-006		Matrix: Date Colle	Soil sected: 11.18.2019 11:30		Date Received:11 Sample Depth: 0.5		:40
Analytical Me	ethod: BTEX by EPA 80	21B				Prep Method: SV	V5030B	
Tech:	MAB							
Analyst:	MAB		Date Prep:	11.19.2019 17:11		% Moisture: Basis: W	at Waight	
Seq Number:	3108004					Dasis. W	et Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil

1 urumeter	Cus Humby	100000	<b>KL</b>		Onto	Analysis Date	Tiag	DI
Benzene	71-43-2	0.0130	0.00198		mg/kg	11.20.2019 00:55		1
Toluene	108-88-3	0.0221	0.00198		mg/kg	11.20.2019 00:55		1
Ethylbenzene	100-41-4	0.00580	0.00198		mg/kg	11.20.2019 00:55		1
m,p-Xylenes	179601-23-1	0.0277	0.00198		mg/kg	11.20.2019 00:55		1
o-Xylene	95-47-6	0.00954	0.00198		mg/kg	11.20.2019 00:55		1
Total Xylenes	1330-20-7	0.0372	0.00198		mg/kg	11.20.2019 00:55		1
Total BTEX		0.0781	0.00198		mg/kg	11.20.2019 00:55		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	110	%	70-130	11.20.2019 00:55		
4-Bromofluorobenzene		460-00-4	113	%	70-130	11.20.2019 00:55		

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**Environment Testing** 

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# **Flagging Criteria**

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Sam	ple Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	l for this compound.			

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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**Environment Testing** 

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QC Summary 643720

### WSP USA

PLU PC 28 Battery - Spill Date 11/13/2019

<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>Chloride b</b> 3108003 7690696-1-		00		Matrix: nple Id:	Solid 7690696-	1-BKS			rep Metho Date Pr D Sample	ep: 11.1	0P 9.2019 0696-1-BSD	
Parameter		MB Dogult	Spike	LCS Begult		LCSD		Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		Result <10.0	Amount 250	Result 254	%Rec 102	Result 253	%Rec 101	90-110	0	Limit 20	mg/kg	11.19.2019 17:55	
Chioride		10.0	250	234	102		101	<i>y</i> 0 110					
Analytical Method:		y EPA 3(	)0		M	C - :1			Pı	rep Metho			
Seq Number: Parent Sample Id:	3108003 643713-001				Matrix:	643713-0	01 S		MS	Date Pr D Sample	-	9.2019 713-001 SD	
Parameter	043713-001	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		300	198	508	105	509	106	90-110	0	20	mg/kg	11.19.2019 18:12	
<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>Chloride b</b> 3108003 643716-001	-	00		Matrix: nple Id:	Soil 643716-00	01 S			rep Metho Date Pr D Sample	ep: 11.1	0P 9.2019 716-001 SD	
Parameter		Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis	Flag
Chloride		<b>Result</b> 1080	Amount 200	Result 1270	%Rec 95	Result 1280	%Rec 101	90-110	1	Limit 20	mg/kg	<b>Date</b> 11.19.2019 19:35	
<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>TPH by SV</b> 3108033 7690720-1-		od		Matrix: nple Id:	Solid 7690720-	1-BKS			rep Metho Date Pro D Sample	ep: 11.1	8015P 9.2019 0720-1-BSD	
Parameter		MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
Gasoline Range Hydrocarb	ons (GRO)	Result <50.0	Amount 1000	Result 1140	%Rec 114	Result 1090	%Rec 109	70-135	4	Limit 35	mg/kg	Date 11.19.2019 11:27	
Diesel Range Organics		<50.0	1000	1140	114	1250	125	70-135	7	35	mg/kg	11.19.2019 11:27	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		120			32		129			-135	%	11.19.2019 11:27 11.19.2019 11:27	
o-Terphenyl		118		1	32		129			-135	%		
Analytical Method: Seq Number:	<b>TPH by SV</b> 3108033	v8015 M	od		Matrix:	Solid			Pı	rep Metho Date Pro		8015P 9.2019	
eq i tunioei.	5100055					7690720-	1-BLK			Ductif	-p. 11.1		
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	11.19.2019 11:07	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Final 1.002
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#### QC Summary 643720

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#### WSP USA

PLU PC 28 Battery - Spill Date 11/13/2019

Analytical Method:	TPH by S	W8015 M	od						Pi	rep Meth	od: SW	8015P	
Seq Number:	3108033				Matrix:	Soil				Date Pr	ep: 11.1	9.2019	
Parent Sample Id:	643713-00	1		MS Sar	nple Id:	643713-00	01 S		MS	D Sample	e Id: 643	713-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	< 50.1	1000	937	94	863	86	70-135	8	35	mg/kg	11.19.2019 17:52	
Diesel Range Organics	(DRO)	<50.1	1000	1090	109	992	99	70-135	9	35	mg/kg	11.19.2019 17:52	
Surrogate					1S Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1-Chlorooctane				1	19		110	1	70	-135	%	11.19.2019 17:52	
o-Terphenyl				1	20		111		70	-135	%	11.19.2019 17:52	

Analytical Method:	BTEX by EPA 8021	B						P	rep Metho	od: SW	5030B	
Seq Number:	3108004		]	Matrix:	Solid				Date Pr	ep: 11.1	19.2019	
MB Sample Id:	7690695-1-BLK		LCS San	nple Id:	7690695-	1-BKS		LCS	D Sample	e Id: 769	0695-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.103	103	0.101	101	70-130	2	35	mg/kg	11.19.2019 15:03	
Toluene	< 0.00200	0.100	0.101	101	0.100	100	70-130	1	35	mg/kg	11.19.2019 15:03	
Ethylbenzene	< 0.00200	0.100	0.101	101	0.0996	100	71-129	1	35	mg/kg	11.19.2019 15:03	
m,p-Xylenes	< 0.00200	0.200	0.213	107	0.211	106	70-135	1	35	mg/kg	11.19.2019 15:03	
o-Xylene	< 0.00200	0.100	0.106	106	0.105	105	71-133	1	35	mg/kg	11.19.2019 15:03	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	102		10	04		103		70	-130	%	11.19.2019 15:03	
4-Bromofluorobenzene	104		1	11		110		70	-130	%	11.19.2019 15:03	

Analytical Method:	BTEX by EPA 8021	lB						Pi	rep Meth	od: SW	5030B	
Seq Number:	3108004			Matrix:	Soil				Date Pr	ep: 11.1	19.2019	
Parent Sample Id:	643713-001		MS Sar	nple Id:	643713-00	01 S		MS	D Sample	e Id: 643	713-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00198	0.0992	0.103	104	0.0909	91	70-130	12	35	mg/kg	11.19.2019 18:19	
Toluene	< 0.00198	0.0992	0.101	102	0.0849	85	70-130	17	35	mg/kg	11.19.2019 18:19	
Ethylbenzene	< 0.00198	0.0992	0.0989	100	0.0758	76	71-129	26	35	mg/kg	11.19.2019 18:19	
m,p-Xylenes	< 0.00198	0.198	0.209	106	0.159	80	70-135	27	35	mg/kg	11.19.2019 18:19	
o-Xylene	< 0.00198	0.0992	0.105	106	0.0807	81	71-133	26	35	mg/kg	11.19.2019 18:19	
Surrogate				1S Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	06		106		70	-130	%	11.19.2019 18:19	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

4-Bromofluorobenzene

 $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

118

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.

11.19.2019 18:19

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116

70-130

%

		Phoenix,AZ (480) 3	55-0900 Atlanta, GA (770)	) 449-8800 Tampa,FL	Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6701	L (561) 689-6701 WWW.Xenco.com	un Page <sup>4</sup> of
Project Manager:	Dan Moir		Bill to: (if different)	ent) Kyle	Litte 1	Work Orc	Work Order Comments
Company Name:	LT Environmenta	a fal	Company Name:			Program: UST/PST PRP B	Program: UST/PST DRP Brownfields RRC Superfund
Address:	3300 North	A Sheet	Address:	3 704 E		State of Project:	
City, State ZIP:	M. Jard , TX.	SolbL	City, State ZIP:	IP: Carlsbad	, NM 88220	Reporting:Level II Kevel III	Reporting:Level II Content of the Content of the Reporting of the Content of the
Phone:	432. 236. 3849		00	HEAV.com, d.	drupir @ HEAV.com	Deliverables: EDD A	ADaPT 🗆 Other:
Project Name:	PLU CUX JU PR	003H	Turn Around		ANALYSIS REQUEST	REQUEST	Preservative Codes
Project Number:		Ro	Routine Code	de			MeOH: Me
Project Location	-	Ru	Rush:				None: NO
Sampler's Name:	Spener to		Due Date:	(	(1		HNO3: HN
		ore #:		(SI 208	208		
JAMPLE RECEIPI	Iemp Blank:	Yes No Wet Ice:	Yes	08 Vc	3		NOL: HL
Received Intact:	0	THNO	-	¥. [3]	43		Zn Acetate+ NaOH: Zn
Cooler Custody Seals:	Yes No	Correction Factor:	20.5	13) N	)		TAT starts the day recevied by the lab, if
Sample Custody Seals:	s: Yes No N/A	Total Containers:	6	+	XŦ		received by 4:00pm
Lab Sample Identification	Matrix	Date Time Sampled Sampled	d Depth Numb	161 117)	118		Sample Comments
Scot	5	11-1849 10:15	0.5'	-	>		
2055	1	02:01 61.81.11		X X			
5503	5	Sh: a 51.81.11		××			
5604		11.18.19 11:00	ò	X	~		
505		-	Ö	× ×	X		
5506	5	11-18-19 11:30	0.5' 1	x x	X		
	-				~	2	
					A A		
Total 200.7 / 6010 Circle Method(s) a	otal 200.7 / 6010 200.8 / 6020: Circle Mathed(s) and Metal/s) to be analyzed		BRCRA 13PPM Texas 11 TCLP / SPI P 6010: BRCRA 5	AI Sb As Be	Cd Ca	Pb Mg Mn Mo Ni K Se Ag SiO2 Se Ag TI IJ	Na Sr Ti Sn U V Zn 1631/245.1/7470 /7471:Ho
Notice: Signature of this docume of service. Xenco will be liable of of service. A minimum charge of	In the control of the control of the control of the control of the cost of samples and it is the cost of samples and it is the cost of samples and it is cost of the cost of samples and it is cost of the cost of	es constitutes a valid purc shall not assume any resp olect and a charge of \$5 fr	hase order from client com onsibility for any losses or reach sample submitted to	pany to Xenco, its affilia expenses incurred by the oxer of the oxer of the oxer of the oxer of the oxer oxer oxer oxer oxer oxer oxer oxe	and subco lient if such	dard terms and conditions statues byond the control revolusity negotiated.	
Relinquished by: (Signature)	ature)	Received by: (Signature)	ature)	Date/Time	Relinduished by: (Signature)	Inature) Received by: (Signature)	ature) Date/Time
Dr h	No.	u Kunnop		11/19/19 1530	e Jaeu Unn	Amural Contract	11/19/19 15:240
			0		. 0		

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Final 1.002

eurofins Environment Testing

Xenco

**Project Id:** 012919281

Contact: Dan Moir

**Project Location:** 

Certificate of Analysis Summary 657565

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WSP USA, Dallas, TX

#### Project Name: PLU PC 28 Battery

 Date Received in Lab:
 Wed 04.01.2020 10:10

 Report Date:
 11.24.2020 09:41

Project Manager: Jessica Kramer

	Lab Id:	657565-0	001	657565-0	02	657565-0	003	657565-0	004	657565-0	005	657565-00	06
Analysis Requested	Field Id:	PH01		PH01A	۸	PH01B		PH02		PH02A		PH02B	
Analysis Requested	Depth:	2- ft		4- ft		6- ft		2- ft		4- ft		5- ft	
	Matrix:	SOIL	,	SOIL		SOIL		SOIL	,	SOIL		SOIL	
	Sampled:	03.30.2020	09:50	03.30.2020	12:10	03.30.2020	12:20	03.30.2020	10:00	03.30.2020	10:20	03.30.2020	10:30
BTEX by EPA 8021B	Extracted:	04.04.2020	16:46	04.04.2020	16:46	04.04.2020	16:46	04.04.2020	16:46	04.04.2020	16:46	04.04.2020	16:46
	Analyzed:	04.05.2020	07:07	04.05.2020	07:27	04.05.2020	07:48	04.05.2020	04:44	04.05.2020	08:49	04.05.2020 0	09:09
	Units/RL:	mg/kg	RL	mg/kg	RL								
Benzene		< 0.00202	0.00202	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	< 0.0200	0.0200
Toluene		< 0.00202	0.00202	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	< 0.0200	0.0200
Ethylbenzene		< 0.00202	0.00202	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	< 0.0200	0.0200
m,p-Xylenes		< 0.00403	0.00403	< 0.00402	0.00402	< 0.00403	0.00403	< 0.00399	0.00399	< 0.00403	0.00403	0.145	0.0400
o-Xylene		< 0.00202	0.00202	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	0.0489	0.0200
Total Xylenes		< 0.00202	0.00202	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	0.194	0.0200
Total BTEX		< 0.00202	0.00202	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	0.194	0.0200
Chloride by EPA 300	Extracted:	04.06.2020	10:36	04.06.2020	10:36	04.06.2020	10:36	04.06.2020	10:36	04.06.2020	10:36	04.06.2020	10:36
	Analyzed:	04.07.2020	07:50	04.07.2020	08:07	04.07.2020	08:12	04.07.2020	08:18	04.07.2020	08:23	04.06.2020 2	22:25
	Units/RL:	mg/kg	RL	mg/kg	RL								
Chloride		122	10.0	72.3	9.88	37.1	9.98	33.1	9.98	274	9.98	7520 D	198
TPH by SW8015 Mod	Extracted:	04.03.2020	15:00	04.03.2020	15:00	04.03.2020	15:00	04.03.2020	15:00	04.03.2020	15:00	04.03.2020	15:00
SUB: T104704400-20-21	Analyzed:	04.04.2020	03:43	04.04.2020	04:05	04.04.2020	04:27	04.04.2020	04:49	04.04.2020	05:10	04.04.2020 (	05:32
	Units/RL:	mg/kg	RL	mg/kg	RL								
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0	130	50.0
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0	1320	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0	134	50.0
Total GRO-DRO		<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0	1450	50.0
Total TPH		<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0	1580	50.0

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Xenco

**Environment Testing** 

012919281

Dan Moir

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**Project Id:** 

**Project Location:** 

**Contact:** 

Certificate of Analysis Summary 657565

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WSP USA, Dallas, TX

#### Project Name: PLU PC 28 Battery

 Date Received in Lab:
 Wed 04.01.2020 10:10

 Report Date:
 11.24.2020 09:41

 Project Manager:
 Jessica Kramer

Lab Id: 657565-007 657565-008 657565-009 657565-010 Field Id: PH02C PH03 PH03A PH03B Analysis Requested Depth: 6- ft 2- ft 4- ft 6- ft Matrix: SOIL SOIL SOIL SOIL Sampled: 03.30.2020 10:45 03.30.2020 10:40 03.30.2020 10:50 03.30.2020 11:00 BTEX by EPA 8021B 04.04.2020 16:46 04.04.2020 16:46 Extracted: 04.04.2020 16:46 04.04.2020 16:46 Analyzed: 04.05.2020 09:29 04.05.2020 09:50 04.05.2020 10:10 04.05.2020 10:31 RL mg/kg RL RL RL Units/RL: mg/kg mg/kg mg/kg < 0.00201 < 0.00201 0.00201 < 0.00202 0.00202 0.00201 < 0.00202 0.00202 Benzene 0.00202 < 0.00201 0.00201 < 0.00202 0.00202 Toluene < 0.00202 < 0.00201 0.00201 < 0.00202 0.00202 < 0.00201 0.00201 < 0.00201 0.00201 < 0.00202 0.00202 Ethylbenzene 0.00403 < 0.00402 0.00402 < 0.00402 0.00402 < 0.00404 0.00404 < 0.00403 m,p-Xylenes < 0.00201 0.00201 < 0.00202 o-Xylene < 0.00202 0.00202 < 0.00201 0.00201 0.00202 0.00202 0.00201 < 0.00201 0.00201 < 0.00202 0.00202 < 0.00202 < 0.00201 Total Xylenes Total BTEX < 0.00202 0.00202 < 0.00201 0.00201 < 0.00201 0.00201 < 0.00202 0.00202 Chloride by EPA 300 Extracted: 04.06.2020 10:36 04.06.2020 10:36 04.06.2020 10:36 04.06.2020 10:36 04.06.2020 22:32 04.06.2020 22:38 04.06.2020 22:44 04.06.2020 22:50 Analyzed: RL RL RL RL Units/RL: mg/kg mg/kg mg/kg mg/kg Chloride 28.4 10.1 36.1 10.0 21.2 9.94 16.4 9.98 TPH by SW8015 Mod Extracted: 04.03.2020 15:00 04.03.2020 15:00 04.03.2020 15:00 04.03.2020 15:00 SUB: T104704400-20-21 Analyzed: 04.04.2020 05:54 04.04.2020 06:15 04.04.2020 06:37 04.04.2020 06:59 RL mg/kg RL mg/kg RL RL Units/RL: mg/kg mg/kg Gasoline Range Hydrocarbons (GRO) <49.9 49.9 <49.8 49.8 < 50.0 50.0 < 50.0 50.0 Diesel Range Organics (DRO) <49.9 49.9 <49.8 49.8 < 50.0 50.0 < 50.0 50.0 Motor Oil Range Hydrocarbons (MRO) 49.9 49.8 < 50.0 50.0 <50.0 50.0 <49.9 < 49.8Total GRO-DRO <49.9 49.9 <49.8 49.8 < 50.0 50.0 <50.0 50.0 Total TPH <49.9 49.9 <49.8 49.8 < 50.0 50.0 <50.0 50.0

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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# **Analytical Report 657565**

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#### for

### WSP USA

**Project Manager: Dan Moir** 

PLU PC 28 Battery

#### 012919281

#### 11.24.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing Xenco

11.24.2020
Project Manager: Dan Moir
WSP USA
2777 N. Stemmons Freeway, Suite 1600
Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): 657565 PLU PC 28 Battery Project Address:

#### Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 657565. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 657565 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

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Jessica Kramer Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

# Sample Cross Reference 657565

#### WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH01	S	03.30.2020 09:50	2 ft	657565-001
PH01A	S	03.30.2020 12:10	4 ft	657565-002
PH01B	S	03.30.2020 12:20	6 ft	657565-003
PH02	S	03.30.2020 10:00	2 ft	657565-004
PH02A	S	03.30.2020 10:20	4 ft	657565-005
PH02B	S	03.30.2020 10:30	5 ft	657565-006
PH02C	S	03.30.2020 10:40	6 ft	657565-007
PH03	S	03.30.2020 10:45	2 ft	657565-008
PH03A	S	03.30.2020 10:50	4 ft	657565-009
PH03B	S	03.30.2020 11:00	6 ft	657565-010

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#### **CASE NARRATIVE**

Client Name: WSP USA Project Name: PLU PC 28 Battery

 Project ID:
 012919281

 Work Order Number(s):
 657565

Report Date: 11.24.2020 Date Received: 04.01.2020

Sample receipt non conformances and comments:

V1.001 Revision (client email) Updated project name and PO

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3121964 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

#### **Certificate of Analytical Results 657565**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: PH01		Matrix:	Soil		Date Received:04.0	01.2020 10:	10
Lab Sample Id: 657565-001		Date Collec	cted: 03.30.2020 09:50		Sample Depth: 2 ft		
Analytical Method: Chloride by EP	PA 300				Prep Method: E30	0P	
Tech: MAB							
Analyst: MAB		Date Prep:	04.06.2020 10:36		% Moisture: Basis: Wet	<b>X</b> 7 · 1 /	
Seq Number: 3122154					Dasis: wet	Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	122	10.0	mg/kg	04.07.2020 07:50		1
Analytical Method: TPH by SW801	15 Mod				Prep Method: SW8	8015P	
Analytical Method: TPH by SW801 Tech: DVM Analyst: ARM Seq Number: 3122022	15 Mod	Date Prep:	04.03.2020 15:00		% Moisture:	Weight	
Tech: DVM Analyst: ARM Seq Number: 3122022	15 Mod Cas Number	·	04.03.2020 15:00 RL	Units	% Moisture: Basis: Wet	Weight	Dil
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter		·		Units mg/kg	% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	<b>Dil</b>
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number	Result	RL		% Moisture: Basis: Wet SUB: T104704400- Analysis Date	Weight 20-21 Flag	
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610	<b>Result</b> <50.0	<b>RL</b> 50.0	mg/kg	% Moisture: Basis: Wet SUB: T104704400- Analysis Date 04.04.2020 03:43	Weight 20-21 Flag U	1
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.0 <50.0	<b>RL</b> 50.0 50.0	mg/kg mg/kg	% Moisture: Basis: Wet SUB: T104704400- Analysis Date 04.04.2020 03:43 04.04.2020 03:43	Weight 20-21 Flag U U	1
Tech: DVM Analyst: ARM	Cas Number PHC610 C10C28DRO PHCG2835	<b>Result</b> <50.0 <50.0 <50.0	<b>RL</b> 50.0 50.0 50.0	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet SUB: T104704400- Analysis Date 04.04.2020 03:43 04.04.2020 03:43 04.04.2020 03:43	Weight 20-21 Flag U U U U	1 1

105

117

%

%

70-130

70-130

111-85-3

84-15-1

1-Chlorooctane

o-Terphenyl

.

04.04.2020 03:43

04.04.2020 03:43

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# **Certificate of Analytical Results 657565**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id:	<b>PH01</b>	Matrix:	Soil	Date Received Sample Depth	1:04.01.2020 10:10
Lab Sample Id	d: 657565-001	Date Collected	l: 03.30.2020 09:50		: 2 ft
Analytical Me Tech: Analyst: Seq Number:	ethod: BTEX by EPA 8021B MAB MAB 3121964	Date Prep:	04.04.2020 16:46	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	04.05.2020 07:07	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	04.05.2020 07:07	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	04.05.2020 07:07	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	04.05.2020 07:07	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	04.05.2020 07:07	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	04.05.2020 07:07	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	04.05.2020 07:07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	94	%	70-130	04.05.2020 07:07		
1,4-Difluorobenzene		540-36-3	106	%	70-130	04.05.2020 07:07		

# **Certificate of Analytical Results 657565**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: <b>PH01A</b> Lab Sample Id: 657565-002	Matrix: Date Collec	Soil ted: 03.30.2020 12:10		Date Received:04.01.2020 10:10 Sample Depth: 4 ft			
Analytical Method: Chloride by EF	PA 300				Prep Method: E300	Р	
Tech:MABAnalyst:MABSeq Number:3122154		Date Prep:	04.06.2020 10:36		% Moisture: Basis: Wet V	Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	72.3	9.88	mg/kg	04.07.2020 08:07		1
Analytical Method: TPH by SW80	15 Mod				Prep Method: SW80	015P	
Tech:DVMAnalyst:ARMSeq Number:3122022		Date Prep:	04.03.2020 15:00		% Moisture: Basis: Wet V SUB: T104704400-2	Weight 20-21	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil

1 drameter	Cus rumbe	i ittouit	NL		Units	Analysis Date	Flag	Di
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.	9 49.9		mg/kg	04.04.2020 04:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.	9 49.9		mg/kg	04.04.2020 04:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.	9 49.9		mg/kg	04.04.2020 04:05	U	1
Total GRO-DRO	PHC628	<49.	9 49.9		mg/kg	04.04.2020 04:05	U	1
Total TPH	PHC635	<49.	9 49.9		mg/kg	04.04.2020 04:05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-130	04.04.2020 04:05		
o-Terphenyl		84-15-1	108	%	70-130	04.04.2020 04:05		

Environment Testing Xenco

# **Certificate of Analytical Results 657565**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: Lab Sample Id:	<b>PH01A</b> 657565-002	Matrix: Date Collected	Soil : 03.30.2020 12:10	Date Received Sample Depth:	l:04.01.2020 10:10 : 4 ft
Tech:	hod: BTEX by EPA 8021B MAB MAB		04.04.2020.16.46	Prep Method: % Moisture:	SW5030B
Analyst: Seq Number:		Date Prep:	04.04.2020 16:46	Basis:	Wet Weight

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	04.05.2020 07:27	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	04.05.2020 07:27	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	04.05.2020 07:27	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	04.05.2020 07:27	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	04.05.2020 07:27	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	04.05.2020 07:27	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	04.05.2020 07:27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	96	%	70-130	04.05.2020 07:27		
1,4-Difluorobenzene		540-36-3	107	%	70-130	04.05.2020 07:27		

# **Certificate of Analytical Results 657565**

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# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id:PH01BLab Sample Id:657565-003		Matrix: Date Collec	Soil cted: 03.30.2020 12:20		Date Received:0 Sample Depth: 6		:10
Analytical Method: Chloride by EF	PA 300				Prep Method: E	E300P	
Tech: MAB							
Analyst: MAB		Date Prep:	04.06.2020 10:36		% Moisture: Basis: W	Vet Weight	
Seq Number: 3122154					Dasis. v	vet weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	37.1	9.98	mg/kg	04.07.2020 08:1	2	1
Analytical Method: TPH by SW80	15 Mod				Prep Method: S	W8015P	
Analytical Method:TPH by SW80Tech:DVMAnalyst:ARMSeq Number:3122022	15 Mod	Date Prep:	04.03.2020 15:00		% Moisture:	Vet Weight	
Tech: DVM Analyst: ARM	15 Mod Cas Number	Ĩ	04.03.2020 15:00 RL	Units	% Moisture: Basis: V	Vet Weight 00-20-21	Dil
Tech: DVM Analyst: ARM Seq Number: 3122022		Ĩ		Units mg/kg	% Moisture: Basis: V SUB: T10470440	Vet Weight 00-20-21 e <b>Flag</b>	<b>Dil</b> 1
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter	Cas Number	Result	RL		% Moisture: Basis: V SUB: T1047044 Analysis Date	Vet Weight 00-20-21 • <b>Flag</b> 7 U	<b>Dil</b> 1 1

Total GRO-DRO	PHC628	<50.	0 50.0		mg/kg	04.04.2020 04:27	U	1
Total TPH	PHC635	<50.0	0 50.0		mg/kg	04.04.2020 04:27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	94	%	70-130	04.04.2020 04:27		
o-Terphenyl		84-15-1	107	%	70-130	04.04.2020 04:27		

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# **Certificate of Analytical Results 657565**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id:PH01BLab Sample Id:657565-003	Matrix:	Soil	Date Received	1:04.01.2020 10:10
	Date Collecte	d: 03.30.2020 12:20	Sample Depth	:: 6 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3121964	Date Prep:	04.04.2020 16:46	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	04.05.2020 07:48	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	04.05.2020 07:48	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	04.05.2020 07:48	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	04.05.2020 07:48	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	04.05.2020 07:48	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	04.05.2020 07:48	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	04.05.2020 07:48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	96	%	70-130	04.05.2020 07:48		
1,4-Difluorobenzene		540-36-3	108	%	70-130	04.05.2020 07:48		

#### **Certificate of Analytical Results 657565**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id:PH02Lab Sample Id:657565-004		Matrix: Date Collec	Soil ted: 03.30.2020 10:00		Date Received:04. Sample Depth: 2 ft		:10
Analytical Method: Chloride by EP	A 300				Prep Method: E30	00P	
Tech: MAB							
Analyst: MAB		Date Prep:	04.06.2020 10:36		% Moisture: Basis: We	t Weight	
Seq Number: 3122154					Dusis. WC	a weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	33.1	9.98	mg/kg	04.07.2020 08:18		1
Analytical Method:TPH by SW801Tech:DVMAnalyst:ARMSeq Number:3122022	15 Mod	Date Prep:	04.03.2020 15:00		Prep Method: SW % Moisture: Basis: We SUB: T104704400	et Weight	
Tech: DVM Analyst: ARM	15 Mod Cas Number	ľ	04.03.2020 15:00 RL	Units	% Moisture: Basis: We	et Weight	Dil
Tech:DVMAnalyst:ARMSeq Number:3122022		ľ		Units mg/kg	% Moisture: Basis: We SUB: T104704400	et Weight )-20-21	<b>Dil</b>
Tech:       DVM         Analyst:       ARM         Seq Number:       3122022         Parameter       Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)	Cas Number	Result J	RL		% Moisture: Basis: We SUB: T104704400 Analysis Date	et Weight )-20-21 Flag	
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	<b>Result</b> 1	<b>RL</b> 49.8	mg/kg	<ul> <li>Moisture: Basis: We SUB: T104704400</li> <li>Analysis Date</li> <li>04.04.2020 04:49</li> </ul>	et Weight D-20-21 Flag U	
Tech:       DVM         Analyst:       ARM         Seq Number:       3122022         Parameter       Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> ] <49.8 <49.8	<b>RL</b> 49.8 49.8	mg/kg mg/kg	% Moisture: Basis: We SUB: T104704400 Analysis Date 04.04.2020 04:49 04.04.2020 04:49	et Weight )-20-21 Flag U U	1

Surrogate Cas Number % Recovery Units Limits Analysis Date Flag 04.04.2020 04:49 1-Chlorooctane 111-85-3 93 % 70-130 84-15-1 105 04.04.2020 04:49 o-Terphenyl % 70-130

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# **Certificate of Analytical Results 657565**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id:PH02Lab Sample Id:657565-004	Matrix: Date Collecte	Soil d: 03.30.2020 10:00	Date Received Sample Depth	l:04.01.2020 10:10 : 2 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3121964	Date Prep:	04.04.2020 16:46	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.05.2020 04:44	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.05.2020 04:44	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.05.2020 04:44	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	04.05.2020 04:44	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.05.2020 04:44	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	04.05.2020 04:44	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.05.2020 04:44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	96	%	70-130	04.05.2020 04:44		
1,4-Difluorobenzene		540-36-3	105	%	70-130	04.05.2020 04:44		

#### **Certificate of Analytical Results 657565**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id:PH02ALab Sample Id:657565-005		Matrix: Soil Date Collected: 03.30.2020 10:20			Date Received:04.01.2020 10:10 Sample Depth: 4 ft			
Analytical Method: Chloride by EP	PA 300				Prep Method: E30	00P		
Tech: MAB								
Analyst: MAB		Date Prep:	04.06.2020 10:36		% Moisture: Basis: We	Waight		
Seq Number: 3122154					Dasis. we	t Weight		
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	274	9.98	mg/kg	04.07.2020 08:23		1	
Analytical Method:TPH by SW80Tech:DVMAnalyst:ARMSeq Number:3122022	15 Mod	Date Prep:	04.03.2020 15:00		Prep Method: SW % Moisture: Basis: We SUB: T104704400	t Weight		
Tech:DVMAnalyst:ARMSeq Number:3122022	15 Mod Cas Number	ľ	04.03.2020 15:00 RL	Units	% Moisture: Basis: We	t Weight	Dil	
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter		ľ		Units mg/kg	% Moisture: Basis: We SUB: T104704400	t Weight -20-21	<b>Dil</b>	
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number	Result 1	RL		% Moisture: Basis: We SUB: T104704400 Analysis Date	t Weight -20-21 Flag		
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610	Result I	<b>RL</b> 50.0	mg/kg	<ul> <li>Moisture:</li> <li>Basis: We</li> <li>SUB: T104704400</li> <li>Analysis Date</li> <li>04.04.2020 05:10</li> </ul>	t Weight -20-21 Flag U		
Tech: DVM Analyst: ARM	Cas Number PHC610 C10C28DRO	<b>Result</b> ] <50.0 <50.0	<b>RL</b> 50.0 50.0	mg/kg mg/kg	% Moisture: Basis: We SUB: T104704400 Analysis Date 04.04.2020 05:10 04.04.2020 05:10	t Weight -20-21 Flag U U	1 1	

% Recovery

94

107

Units

%

%

Limits

70-130

70-130

Analysis Date

04.04.2020 05:10

04.04.2020 05:10

Flag

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Cas Number

111-85-3

84-15-1

Surrogate

o-Terphenyl

1-Chlorooctane

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# **Certificate of Analytical Results 657565**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: <b>PH02A</b>	Matrix:	Soil	Date Received:	04.01.2020 10:10
Lab Sample Id: 657565-005	Date Coll	ected: 03.30.2020 10:20	Sample Depth:	4 ft
Analytical Method: BTEX b Tech: MAB Analyst: MAB Seq Number: 3121964	y EPA 8021B Date Prep	o: 04.04.2020 16:46	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	04.05.2020 08:49	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	04.05.2020 08:49	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	04.05.2020 08:49	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	04.05.2020 08:49	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	04.05.2020 08:49	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	04.05.2020 08:49	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	04.05.2020 08:49	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	91	%	70-130	04.05.2020 08:49		
1,4-Difluorobenzene		540-36-3	103	%	70-130	04.05.2020 08:49		

# **Certificate of Analytical Results 657565**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: <b>PH02B</b> Lab Sample Id: 657565-006		Matrix Date (	:: Soil Collected: 03.3	0 2020 10:30		Date Received:04.02 Sample Depth: 5 ft	1.2020 10:	:10
Analytical Method: Chloride by EPA	<b>A</b> 300	Date	501001001.03.5	0.2020 10.30		Prep Method: E300	)P	
Tech:MABAnalyst:MABSeq Number:3122154		Date P	Prep: 04.00	6.2020 10:36		% Moisture: Basis: Wet	Weight	
Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7520	198		mg/kg	04.07.2020 10:35	D	20
Analytical Method: TPH by SW801: Tech: DVM Analyst: ARM Seq Number: 3122022	5 Mod	Date P	rep: 04.0	3.2020 15:00		Prep Method: SW8 % Moisture: Basis: Wet SUB: T104704400-2	Weight	
Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	130	50.0		mg/kg	04.04.2020 05:32		1
Diesel Range Organics (DRO)	C10C28DRO	1320	50.0		mg/kg	04.04.2020 05:32		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	134	50.0		mg/kg	04.04.2020 05:32		1
Total GRO-DRO	PHC628	1450	50.0		mg/kg	04.04.2020 05:32		1
Total TPH	PHC635	1580	50.0		mg/kg	04.04.2020 05:32		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	105	%	70-130	04.04.2020 05:32		
o-Terphenyl		84-15-1	115	%	70-130	04.04.2020 05:32		

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# **Certificate of Analytical Results 657565**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: <b>PH02B</b>	Matrix:	Soil	Date Received	1:04.01.2020 10:10
Lab Sample Id: 657565-006	Date Collecte	ed: 03.30.2020 10:30	Sample Depth	1:5 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3121964	Date Prep:	04.04.2020 16:46	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0200	0.0200		mg/kg	04.05.2020 09:09	U	1
Toluene	108-88-3	< 0.0200	0.0200		mg/kg	04.05.2020 09:09	U	1
Ethylbenzene	100-41-4	< 0.0200	0.0200		mg/kg	04.05.2020 09:09	U	1
m,p-Xylenes	179601-23-1	0.145	0.0400		mg/kg	04.05.2020 09:09		1
o-Xylene	95-47-6	0.0489	0.0200		mg/kg	04.05.2020 09:09		1
Total Xylenes	1330-20-7	0.194	0.0200		mg/kg	04.05.2020 09:09		1
Total BTEX		0.194	0.0200		mg/kg	04.05.2020 09:09		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	89	%	70-130	04.05.2020 09:09		
1,4-Difluorobenzene		540-36-3	101	%	70-130	04.05.2020 09:09		

# **Certificate of Analytical Results 657565**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id:PH02CLab Sample Id:657565-007		Matrix: Date Co	Soil ollected: 03.30	.2020 10:40		Date Received:04 Sample Depth: 6		10
Analytical Method: Chloride by EF	PA 300					Prep Method: E3	300P	
Tech: MAB								
Analyst: MAB		Date Pr	ep: 04.06	.2020 10:36		% Moisture: Basis: W	-+ W/-:-1-4	
Seq Number: 3122154			-			Dasis. w	et Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	28.4	10.1		mg/kg	04.06.2020 22:32		1
Tech:DVMAnalyst:ARMSeq Number:3122022		Date Pr	ep: 04.03	.2020 15:00		% Moisture: Basis: W SUB: T10470440	et Weight 0-20-21	
Parameter	Cas Number	Result	RL		TT	Analysis Data	TH	
	Cas Number	Rebuit	KL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	04.04.2020 05:54	_	<b>Dil</b>
Gasoline Range Hydrocarbons (GRO)						•	U	
	PHC610	<49.9	49.9		mg/kg	04.04.2020 05:54	U U	1
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	PHC610 C10C28DRO	<49.9 <49.9	49.9 49.9		mg/kg mg/kg	04.04.2020 05:54 04.04.2020 05:54	U U U U	1 1
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Aotor Oil Range Hydrocarbons (MRO)	PHC610 C10C28DRO PHCG2835	<49.9 <49.9 <49.9	49.9 49.9 49.9		mg/kg mg/kg mg/kg	04.04.2020 05:54 04.04.2020 05:54 04.04.2020 05:54	U U U U U	1 1 1
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Fotal GRO-DRO	PHC610 C10C28DRO PHCG2835 PHC628 PHC635	<49.9 <49.9 <49.9 <49.9 <49.9 <49.9	49.9 49.9 49.9 49.9	Units	mg/kg mg/kg mg/kg mg/kg	04.04.2020 05:54 04.04.2020 05:54 04.04.2020 05:54 04.04.2020 05:54 04.04.2020 05:54		1 1 1
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Yotal GRO-DRO Yotal TPH	PHC610 C10C28DRO PHCG2835 PHC628 PHC635	<49.9 <49.9 <49.9 <49.9 <49.9 <49.9	49.9 49.9 49.9 49.9 49.9	Units %	mg/kg mg/kg mg/kg mg/kg	04.04.2020 05:54 04.04.2020 05:54 04.04.2020 05:54 04.04.2020 05:54 04.04.2020 05:54 04.04.2020 05:54 Analysis Dat	U U U U U U e Flag	1 1 1 1

105

%

70-130

84-15-1

o-Terphenyl

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04.04.2020 05:54

# **Certificate of Analytical Results 657565**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id:	<b>PH02C</b>	Matrix:	Soil	Date Received	l:04.01.2020 10:10
Lab Sample Id:	657565-007	Date Collected	1: 03.30.2020 10:40	Sample Depth	: 6 ft
Tech:	nod: BTEX by EPA 8021B MAB MAB 3121964	Date Prep:	04.04.2020 16:46	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	04.05.2020 09:29	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	04.05.2020 09:29	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	04.05.2020 09:29	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	04.05.2020 09:29	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	04.05.2020 09:29	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	04.05.2020 09:29	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	04.05.2020 09:29	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	105	%	70-130	04.05.2020 09:29		
4-Bromofluorobenzene		460-00-4	104	%	70-130	04.05.2020 09:29		

#### **Certificate of Analytical Results 657565**

# WSP USA, Dallas, TX

PLU PC 28 Battery

mple Id: PH03		Matrix: Soil			Date Received:04.0	04.01.2020 10:10	
Lab Sample Id: 657565-008		Date Collec	cted: 03.30.2020 10:45		Sample Depth: 2 ft		
Analytical Method: Chloride by EPA 300					Prep Method: E300P		
Tech: MAB							
Analyst: MAB		Date Prep: 04.06.2020 10:36			% Moisture: Basis: Wet Weight		
Seq Number: 3122154							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	36.1	10.0	mg/kg	04.06.2020 22:38		1
Analytical Method: TPH by SW80	15 Mod				Prep Method: SW8	3015P	
Analytical Method: TPH by SW80 Tech: DVM Analyst: ARM Seq Number: 3122022	115 Mod	Date Prep:	04.03.2020 15:00		% Moisture:	Weight	
Tech: DVM Analyst: ARM Seq Number: 3122022	15 Mod Cas Number	·	04.03.2020 15:00 RL	Units	% Moisture: Basis: Wet	Weight	Dil
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter		·		Units mg/kg	% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	<b>Dil</b>
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number	Result	RL		% Moisture: Basis: Wet SUB: T104704400- Analysis Date	Weight 20-21 Flag	
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610	Result	<b>RL</b> 49.8	mg/kg	% Moisture: Basis: Wet SUB: T104704400- Analysis Date 04.04.2020 06:15	Weight 20-21 Flag U	1
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <49.8 <49.8	<b>RL</b> 49.8 49.8	mg/kg mg/kg	% Moisture: Basis: Wet SUB: T104704400- Analysis Date 04.04.2020 06:15 04.04.2020 06:15	Weight 20-21 Flag U U	1
Tech: DVM Analyst: ARM	Cas Number PHC610 C10C28DRO PHCG2835	<b>Result</b> <49.8 <49.8 <49.8 <49.8	<b>RL</b> 49.8 49.8 49.8	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet SUB: T104704400- Analysis Date 04.04.2020 06:15 04.04.2020 06:15 04.04.2020 06:15	Weight 20-21 Flag U U U	1 1 1

92

103

%

%

70-130

70-130

111-85-3

84-15-1

1-Chlorooctane

o-Terphenyl

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04.04.2020 06:15

04.04.2020 06:15
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## **Certificate of Analytical Results 657565**

## WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id:	<b>PH03</b>	Matrix:	Soil	Date Received:04.01.2020 10:10			
Lab Sample Id	1: 657565-008	Date Collected	l: 03.30.2020 10:45	Sample Depth: 2 ft			
Analytical Me Tech: Analyst: Seq Number:	thod: BTEX by EPA 8021B MAB MAB 3121964	Date Prep:	04.04.2020 16:46	Prep Method: % Moisture: Basis:	SW5030B Wet Weight		

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	04.05.2020 09:50	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	04.05.2020 09:50	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	04.05.2020 09:50	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	04.05.2020 09:50	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	04.05.2020 09:50	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	04.05.2020 09:50	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	04.05.2020 09:50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	95	%	70-130	04.05.2020 09:50		
1,4-Difluorobenzene		540-36-3	106	%	70-130	04.05.2020 09:50		

## **Certificate of Analytical Results 657565**

## WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: <b>PH03A</b> Lab Sample Id: 657565-009		Matrix: Date Collec	Soil eted: 03.30.2020 10:50		Date Received:04.01.2020 10:1 Sample Depth: 4 ft			
Analytical Method: Chloride by EF	PA 300				Prep Method: E	300P		
Tech: MAB								
Analyst: MAB		Date Prep:	04.06.2020 10:36		% Moisture: Basis: W	Vat Waight		
Seq Number: 3122154					Dasis. y	Vet Weight		
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	21.2	9.94	mg/kg	04.06.2020 22:4	4	1	
Analytical Method:TPH by SW80Tech:DVMAnalyst:ARMSeq Number:3122022	15 Mod	Date Prep:	04.03.2020 15:00		Prep Method: S % Moisture: Basis: W SUB: T10470444	Vet Weight		
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.04.2020 06:3	7 U	1	
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.04.2020 06:3	7 U	1	
							1	
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.04.2020 06:3	7 U	1	
Motor Oil Range Hydrocarbons (MRO) Fotal GRO-DRO	PHCG2835 PHC628	<50.0 <50.0	50.0 50.0	mg/kg mg/kg	04.04.2020 06:3' 04.04.2020 06:3'		1 1 1	

	1110055	<50.	50.0		mg/kg	04.04.2020 00.37	U	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	93	%	70-130	04.04.2020 06:37		
o-Terphenyl		84-15-1	105	%	70-130	04.04.2020 06:37		

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## **Certificate of Analytical Results 657565**

## WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id:PH03ALab Sample Id:657565-009	Matrix:	Soil	Date Received:04.01.2020 10:10			
	Date Collecte	ed: 03.30.2020 10:50	Sample Depth: 4 ft			
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3121964	Date Prep:	04.04.2020 16:46	Prep Method: % Moisture: Basis:	SW5030B Wet Weight		

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	04.05.2020 10:10	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	04.05.2020 10:10	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	04.05.2020 10:10	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	04.05.2020 10:10	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	04.05.2020 10:10	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	04.05.2020 10:10	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	04.05.2020 10:10	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	92	%	70-130	04.05.2020 10:10		
1,4-Difluorobenzene		540-36-3	106	%	70-130	04.05.2020 10:10		

## **Certificate of Analytical Results 657565**

## WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: <b>PH03B</b> Lab Sample Id: 657565-010		Matrix: Date Colle	Soil ected: 03.30.2020 11:00		Date Received:04.01.2020 10:10 Sample Depth: 6 ft			
Analytical Method: Chloride by EP	A 300				Prep Method: E300	)P		
Tech: MAB								
Analyst: MAB		Date Prep	04.06.2020 10:36		% Moisture: Basis: Wet	W/-:-1-4		
Seq Number: 3122154					basis. wet	Weight		
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	16.4	9.98	mg/kg	04.06.2020 22:50		1	
Analytical Method:TPH by SW801Tech:DVMAnalyst:ARMSeq Number:3122022	15 Mod	Date Prep	o: 04.03.2020 15:00		Prep Method: SW8 % Moisture: Basis: Wet SUB: T104704400-2	Weight		
Tech: DVM Analyst: ARM	15 Mod Cas Number	Date Prep Result	o: 04.03.2020 15:00 RL	Units	% Moisture: Basis: Wet	Weight	Dil	
Tech: DVM Analyst: ARM Seq Number: 3122022				Units mg/kg	% Moisture: Basis: Wet SUB: T104704400-2	Weight 20-21	<b>Dil</b>	
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter	Cas Number	Result	RL		% Moisture: Basis: Wet SUB: T104704400-2 Analysis Date	Weight 20-21 Flag		
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	<b>Result</b> <50.0	<b>RL</b> 50.0	mg/kg	% Moisture: Basis: Wet SUB: T104704400-2 Analysis Date 04.04.2020 06:59	Weight 20-21 Flag U	1	
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.0 <50.0	<b>RL</b> 50.0 50.0	mg/kg mg/kg	% Moisture: Basis: Wet SUB: T104704400-2 Analysis Date 04.04.2020 06:59 04.04.2020 06:59	Weight 20-21 Flag U U	1 1	
Tech:       DVM         Analyst:       ARM         Seq Number:       3122022         Parameter       Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)       Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	<b>Result</b> <50.0 <50.0 <50.0	<b>RL</b> 50.0 50.0 50.0	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet SUB: T104704400-2 Analysis Date 04.04.2020 06:59 04.04.2020 06:59 04.04.2020 06:59	Weight 20-21 Flag U U U U	1 1 1	
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	<b>Cas Number</b> PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result           <50.0	<b>RL</b> 50.0 50.0 50.0 50.0	mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet SUB: T104704400-2 Analysis Date 04.04.2020 06:59 04.04.2020 06:59 04.04.2020 06:59 04.04.2020 06:59 04.04.2020 06:59	Weight 20-21 Flag U U U U U	1 1 1 1	

107

%

70-130

04.04.2020 06:59

84-15-1

o-Terphenyl

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Environment Testing

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## **Certificate of Analytical Results 657565**

## WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: <b>PH03B</b>	Matrix:	Soil	Date Received:04.01.2020 10:10			
Lab Sample Id: 657565-010	Date Collecte	d: 03.30.2020 11:00	Sample Depth: 6 ft			
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3121964	Date Prep:	04.04.2020 16:46	Prep Method: % Moisture: Basis:	SW5030B Wet Weight		

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	04.05.2020 10:31	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	04.05.2020 10:31	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	04.05.2020 10:31	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	04.05.2020 10:31	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	04.05.2020 10:31	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	04.05.2020 10:31	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	04.05.2020 10:31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	107	%	70-130	04.05.2020 10:31		
4-Bromofluorobenzene		460-00-4	94	%	70-130	04.05.2020 10:31		

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## **Flagging Criteria**

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
<b>RL</b> Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	le Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	for this compound.			

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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### QC Summary 657565

WSP USA

#### PLU PC 28 Battery

<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>Chloride by</b> 3122154 7700620-1-1		00		Matrix: nple Id:	Solid 7700620-	1-BKS			rep Meth Date Pr D Sample	ep: 04.0	0P )6.2020 0620-1-BSD	
Parameter		MB	Spike Amount	LCS Begylt		LCSD	LCSD	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<b>Result</b> <10.0	250 Amount	Result 260	<b>%Rec</b> 104	Result 261	<b>%Rec</b> 104	90-110	0	20	mg/kg	04.07.2020 07:39	
Analytical Method:	Chloride by 3122154	y EPA 3	)0		Matrix:	Soil			Pi	rep Meth Date Pr		0P )6.2020	
Seq Number: Parent Sample Id:	657565-001					657565-0	01 S		MS		-	565-001 SD	
Parameter	001000 001	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		122	199	337	108	338	109	90-110	0	20	mg/kg	04.07.2020 07:56	
Analytical Method:	Chloride by	y EPA 3	)0						Pi	rep Meth	od: E30	0P	
Seq Number:	3122154				Matrix:					Date Pr	•	06.2020	
Parent Sample Id:	657719-001			MS Sai	nple Id:	657719-0	01 S		MS	-		719-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		102	200	320	109	320	109	90-110	0	20	mg/kg	04.06.2020 23:02	
Analytical Method: Seq Number:	<b>TPH by SV</b> 3122022	V8015 M	od		Matrix:	Solid			Pı	rep Meth Date Pr		8015P 03.2020	
MB Sample Id:	7700560-1-	BLK		LCS Sar	nple Id:	7700560-	1-BKS		LCS	D Sample	e Id: 770	0560-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb Diesel Range Organics		<50.0 <50.0	1000 1000	957 1030	96 103	1060 1150	106 115	70-130 70-130	10 11	20 20	mg/kg mg/kg	04.03.2020 22:15 04.03.2020 22:15	
Surrogate	()	MB %Rec	MB Flag	L	CS Rec	LCS Flag	LCSI %Re	) LCS	D Li	imits	Units	Analysis Date	
1-Chlorooctane o-Terphenyl		94 109			02 18		110 122			-130 -130	% %	04.03.2020 22:15 04.03.2020 22:15	
Analytical Method: Seq Number:	<b>TPH by SV</b> 3122022	V8015 M	od		Matrix:	Solid			Pı	rep Meth Date Pr		8015P )3.2020	
				MB Sar	nple Id:	7700560-	1-BLK						
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	04.03.2020 21:53	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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**Released to Imaging: 4/8/2021 3:32:01 PM** 

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Final 1.002

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#### **QC Summary** 657565

**Environment Testing** 

# WSP USA

### PLU PC 28 Battery

Analytical Method: Seq Number:	]	Matrix:	Soil			Pı	ep Methe Date Pr	Jul .	8015P )3.2020				
Parent Sample Id:	657559-00	1		MS Sample Id: 657559-001 S				MS	D Sample	e Id: 657	559-001 SD		
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<49.9	998	930	93	912	91	70-130	2	20	mg/kg	04.03.2020 23:20	
Diesel Range Organics	(DRO)	1640	998	2520	88	2490	85	70-130	1	20	mg/kg	04.03.2020 23:20	
Surrogate					IS Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane				9	97		94		70	-130	%	04.03.2020 23:20	
o-Terphenyl				9	02		92		70	-130	%	04.03.2020 23:20	

Analytical Method:	BTEX by EPA 8021	В						P	rep Metho	od: SW	5030B	
Seq Number:	3121964		]	Matrix:	Solid				Date Pr	ep: 04.0	04.2020	
MB Sample Id:	7700539-1-BLK		LCS San	nple Id:	7700539-	1-BKS		LCS	D Sample	e Id: 770	0539-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.111	111	0.107	107	70-130	4	35	mg/kg	04.05.2020 03:02	
Toluene	< 0.00200	0.100	0.105	105	0.101	101	70-130	4	35	mg/kg	04.05.2020 03:02	
Ethylbenzene	< 0.00200	0.100	0.0983	98	0.0945	95	71-129	4	35	mg/kg	04.05.2020 03:02	
m,p-Xylenes	< 0.00400	0.200	0.201	101	0.193	97	70-135	4	35	mg/kg	04.05.2020 03:02	
o-Xylene	< 0.00200	0.100	0.103	103	0.0988	99	71-133	4	35	mg/kg	04.05.2020 03:02	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	106		1	05		105		70	-130	%	04.05.2020 03:02	
4-Bromofluorobenzene	95		9	91		91		70	-130	%	04.05.2020 03:02	

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 8021</b> 3121964 657559-008	B		Matrix: nple Id:	Soil 657559-00	)8 S			rep Meth Date Pr D Sample	ep: 04.0	5030B )4.2020 559-008 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.0941	93	0.0918	92	70-130	2	35	mg/kg	04.05.2020 04:03	
Toluene	< 0.00202	0.101	0.0863	85	0.0860	86	70-130	0	35	mg/kg	04.05.2020 04:03	
Ethylbenzene	< 0.00202	0.101	0.0792	78	0.0797	80	71-129	1	35	mg/kg	04.05.2020 04:03	
m,p-Xylenes	< 0.00404	0.202	0.161	80	0.164	82	70-135	2	35	mg/kg	04.05.2020 04:03	
o-Xylene	< 0.00202	0.101	0.0830	82	0.0830	83	71-133	0	35	mg/kg	04.05.2020 04:03	
Surrogate				1S Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	05		105		70	)-130	%	04.05.2020 04:03	
4-Bromofluorobenzene			9	91		92		70	)-130	%	04.05.2020 04:03	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100\*(C-A) / B $\begin{array}{l} \text{[D]} & = 100^{+} \left[ (\text{C-E}) / (\text{C+E}) \right] \\ \text{[D]} & = 100^{+} (\text{C}) / [\text{B}] \\ \text{Log Diff.} & = \text{Log(Sample Duplicate)} - \text{Log(Original Sample)} \end{array}$  LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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seceived b	1	Relinquished by: (Signature)	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 cond relin service. Signature of this document and relinquishment of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circum stances beyond the 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	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed		PHO3 A	PHO 3		SI 20418	PHOZA	PHOZ	S latid	1 to Ha	ptol 5	ication Matrix	Sample Custody Seals: Yes (No) N/A	Seals: Yes No	(Yes N	Temperature (°C):	SAMPLE RECEIPT Temp Blank:	Sampler's Name: Benjamin Belill	P.O. Number: 261-5697	er:	Project Name: PLU PC 28 BAT		City, State ZIP: Midland, TX 79705	Address: 3300 North A Street	Company Name: LT Environmental, Inc., Pe	Project Manager: Dan Moir			25 of .
	0010	Received by: (Signature)	samples constitutes a valid purcha s and shall not assume any respon ach project and a charge of \$5 for (	8RCRA 13PPM Texas 11 A lyzed TCLP / SPLP 6010: 8RCRA	V 1100	0501	1045	01,07	1030	(020)	0001	1220	1210	3/30/20 0450	Date Time C Sampled Sampled	Total Containers:	1	9	Thermometer ID	(Yes) No   Wet Ice: Yes)	Due Date:	Rush:	Routine	TT Turn Around	Email:	City,	Address:	Permian office Com	Bill to	Hobbs, NM (575-392-7550	Houston, I X (2 Midland, TX (	
	41 New 0943	Date/Time	se order from client company to Xenco, its a sibility for any losses or expenses incurred each sample submitted to Xenco, but not an	l Sb As Ba Be Sb As Ba Be	6 U V V V	Y.	2'	6	2	4	2	6	4. 1 1 1	2' 1 X X X	Numb TPH (E BTEX (	EPA :	8015 \ 0=8	onta ) 3021)	)	No				round		City, State ZIP: Carlsbad, NM 88220	ess: 3104 E Green Street	Company Name: XTO Energy	Bill to: (if different) Kyle Littrell	Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800)	Houston, IX (281) 240-4200 Dallas, IX (214) 302-000 Sait Allouin, IX (417) 500 500 Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296	Chain of Custody
4	2 Simple	Relinquished by: (Signature)	affiliates and subcontractors. It assigns sta by the client if such losses are due to circu alyzed. These terms will be enforced unles	Cd Ca Cr ( Cr Co Cu																				ANALYSIS REQUEST			,	Pro		A (770-449-8800) Tampa,FL (813-620-2000)		Istody
9	fe	Received by: (Signature)	ntractors. It assigns standard terms and conditions h losses are due to circumstances beyond the control s will be enforced unless previously negotiated.	vg sio2													TAT s											PRP Brownfields	Work Order Comme			Work Order No:
Revised Date 051418 Rev. 20	4/1/20 10211	Date/Time	-	Na Sr TI Sn U V Zn 1631/245.1/7470/7471:Hg	<	14								18 coure yre	Sample Comments		TAT starts the day received by the lab, if received by 4:30pm							Work Order Notes	Curei.	ł				-	ne   of	Carces



### **Inter-Office Shipment**

Page 1 of 1

### IOS Number 61359

Date/Time: 04/01/20 14:07 Created by: Elizabeth Mcclellan Please send report to: Jessica Kramer Lab# From: Carlsbad Address: 1089 N Canal Street **Delivery Priority:** Lab# To: Midland Air Bill No.: E-Mail: jessica.kramer@xenco.com Sign HT Due PM Analytes Lab Due Sample Id Matrix Client Sample Id Sample Collection Method Name Method PH01 TPH by SW8015 Mod S 03/30/20 09:50 SW8015MOD\_NM 04/07/20 JKR GRO-DRO PHCC10C28 PF 657565-001 04/13/20

							• = • . = •			1
657565-002	S	PH01A	03/30/20 12:10	SW8015MOD_NM	TPH by SW8015 Mod	04/07/20	04/13/20	JKR	GRO-DRO PHCC10C28 PH	
657565-003	S	PH01B	03/30/20 12:20	SW8015MOD_NM	TPH by SW8015 Mod	04/07/20	04/13/20	JKR	GRO-DRO PHCC10C28 PH	
657565-004	S	PH02	03/30/20 10:00	SW8015MOD_NM	TPH by SW8015 Mod	04/07/20	04/13/20	JKR	GRO-DRO PHCC10C28 PH	
657565-005	S	PH02A	03/30/20 10:20	SW8015MOD_NM	TPH by SW8015 Mod	04/07/20	04/13/20	JKR	GRO-DRO PHCC10C28 PH	
657565-006	S	PH02B	03/30/20 10:30	SW8015MOD_NM	TPH by SW8015 Mod	04/07/20	04/13/20	JKR	GRO-DRO PHCC10C28 PH	
657565-007	S	PH02C	03/30/20 10:40	SW8015MOD_NM	TPH by SW8015 Mod	04/07/20	04/13/20	JKR	GRO-DRO PHCC10C28 PH	
657565-008	S	PH03	03/30/20 10:45	SW8015MOD_NM	TPH by SW8015 Mod	04/07/20	04/13/20	JKR	GRO-DRO PHCC10C28 PH	
657565-009	S	РНОЗА	03/30/20 10:50	SW8015MOD_NM	TPH by SW8015 Mod	04/07/20	04/13/20	JKR	GRO-DRO PHCC10C28 PH	
657565-010	S	РНОЗВ	03/30/20 11:00	SW8015MOD_NM	TPH by SW8015 Mod	04/07/20	04/13/20	JKR	GRO-DRO PHCC10C28 PH	

Inter Office Shipment or Sample Comments:

Relinquished By:

Elizabeth McClellan

Date Relinquished: 04/01/2020

Received By:

Brianna Teel

Date Received:

Cooler Temperature:

### **XENCO** Laboratories

#### LABORATORIES Inter Office Report- Sample Receipt Checklist

Sent To: Mic			Acceptable Temp Air and Metal sam Temperature Mea	ples Acceptable	e Range: Ambient
Sent By:	Elizabeth McClellan	Date Sent:	04/01/2020 02:07 PM		
Received By	<b>/:</b>	Date Receive	d:		
		Sample R	eceipt Checklist		Comments
#1 *Tempe	rature of cooler(s)?				
#2 *Shippin	ng container in good condi	tion?		Yes	
#3 *Sample	es received with appropria	te temperature?		Yes	
#4 *Custod	y Seals intact on shipping	container/ cooler?	•	Yes	
#5 *Custod	y Seals Signed and dated	for Containers/coo	olers	Yes	
#6 *IOS pre	esent?			Yes	
#7 Any mis	sing/extra samples?			Yes	
#8 IOS agre	ees with sample label(s)/n	natrix?		Yes	
#9 Sample	matrix/ properties agree w	vith IOS?		Yes	
#10 Sample	es in proper container/ bot	tle?		Yes	
#11 Sample	es properly preserved?			Yes	
#12 Sample	e container(s) intact?			Yes	
#13 Sufficie	ent sample amount for ind	icated test(s)?		Yes	
#14 All sam	ples received within hold	time?		Yes	
* Must be co NonConform	empleted for after-hours	delivery of samp	les prior to placing in th	e refrigerator	

**Corrective Action Taken:** 

Contact:

**Nonconformance Documentation** 

Contacted by :

Date:

Checklist reviewed by:

Date: \_\_\_\_\_\_ Brinne The

### **XENCO** Laboratories

### Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 04.01.2020 10.10.00 AM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 657565	Temperature Measuring device used : T-NM-007
Sample Receip	ot Checklist Comments
#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6*Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	Νο
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	Yes Subbed to Midland.
#18 Water VOC samples have zero headspace?	N/A

#### \* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Checklist reviewed by: Jessica Kramer

Date: 04.01.2020

Jessica Kramer

Date: 04.02.2020

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#### **Environment Testing** Xenco

Project Id: 012919281 Dan Moir

**Contact:** 

**Project Location:** 

Certificate of Analysis Summary 664100

WSP USA, Dallas, TX

#### Project Name: PLU PC 28 Battery

Date Received in Lab: Wed 06.10.2020 16:47 **Report Date:** 11.24.2020 09:42 Project Manager: Jessica Kramer

	Lab Id:	664100-0	01	664100-0	02	664100-0	003	664100-0	004		
Analysis Requested	Field Id:	BH01		BH01A	۱ I	BH02		BH02A			
Analysis Kequestea	Depth:	1- ft		4- ft		1- ft		3- ft			
	Matrix:	SOIL		SOIL		SOIL		SOIL	,		
	Sampled:	06.10.2020	13:07	06.10.2020	13:19	06.10.2020	13:58	06.10.2020	14:04		
BTEX by EPA 8021B	Extracted:	06.11.2020	10:33	06.11.2020	10:33	06.11.2020	10:33	06.11.2020	10:33		
	Analyzed:	06.11.2020	13:24	06.11.2020	13:45	06.11.2020	14:05	06.11.2020	14:26		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00200	0.00200		
Toluene		< 0.00200	0.00200		0.00202	< 0.00201	0.00201	< 0.00200	0.00200		
Ethylbenzene		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00200	0.00200		
m,p-Xylenes		< 0.00401	0.00401		0.00403	< 0.00402	0.00402	< 0.00401	0.00401		
o-Xylene		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00200	0.00200		
Total Xylenes		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00200	0.00200		
Total BTEX		< 0.00200	0.00200	< 0.00202	0.00202	< 0.00201	0.00201	< 0.00200	0.00200		
Chloride by EPA 300	Extracted:	06.11.2020	15:00	06.11.2020	15:00	06.11.2020	15:00	06.11.2020	15:00		
	Analyzed:	06.11.2020	16:32	06.11.2020	16:53	06.11.2020	17:00	06.11.2020	17:07		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		183	9.96	126	10.1	58.4	10.1	297	10.1		
TPH by SW8015 Mod	Extracted:	06.11.2020	16:50	06.11.2020	16:50	06.11.2020	17:00	06.11.2020	17:00		
	Analyzed:	06.11.2020	16:52	06.11.2020	16:52	06.11.2020	17:53	06.11.2020	18:13		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<50.2	50.2	<49.8	49.8	<49.8	49.8		
Diesel Range Organics (DRO)		<50.2	50.2	<50.2	50.2	<49.8	49.8	<49.8	49.8		
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<50.2	50.2	<49.8	49.8	<49.8	49.8		
Total GRO-DRO		<50.2	50.2	<50.2	50.2	<49.8	49.8	<49.8	49.8		
Total TPH		<50.2	50.2	<50.2	50.2	<49.8	49.8	<49.8	49.8		

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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## **Analytical Report 664100**

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for

### WSP USA

**Project Manager: Dan Moir** 

PLU PC 28 Battery

#### 012919281

#### 11.24.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



11.24.2020 Project Manager: Dan Moir WSP USA 2777 N. Stemmons Freeway, Suite 1600 Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): 664100 **PLU PC 28 Battery** Project Address:

#### Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 664100. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 664100 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession beamer

Jessica Kramer **Project Manager** 

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

## Sample Cross Reference 664100

#### WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH01	S	06.10.2020 13:07	1 ft	664100-001
BH01A	S	06.10.2020 13:19	4 ft	664100-002
BH02	S	06.10.2020 13:58	1 ft	664100-003
BH02A	S	06.10.2020 14:04	3 ft	664100-004

Environment Testing Xenco

### **CASE NARRATIVE**

*Client Name: WSP USA Project Name: PLU PC 28 Battery* 

 Project ID:
 012919281

 Work Order Number(s):
 664100

Report Date: *11.24.2020* Date Received: *06.10.2020* 

#### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

## **Certificate of Analytical Results 664100**

## WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: <b>BH01</b> Lab Sample Id: 664100-001		Matrix Date C	Soil Soil Soil	0.2020 13:07		Date Received:06.1 Sample Depth: 1 ft		:47
Analytical Method: Chloride by EP	A 300					Prep Method: E30	00P	
Tech: MAB								
Analyst: MAB		Date P	rep: 06.11	1.2020 15:00		% Moisture: Basis: We	• W/-:-1-4	
Seq Number: 3128747						Dasis. we	t Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	183	9.96		mg/kg	06.11.2020 16:32		1
Analytical Method: TPH by SW801 Tech: DTH Analyst: DTH Seq Number: 3128764	5 Mod	Date Pr	rep: 06.11	1.2020 16:50		Prep Method: SW % Moisture: Basis: Wet	8015P t Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	06.11.2020 16:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2		mg/kg	06.11.2020 16:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2		mg/kg	06.11.2020 16:52	U	1
Total GRO-DRO	PHC628	<50.2	50.2		mg/kg	06.11.2020 16:52	U	1
Total TPH	PHC635	<50.2	50.2		mg/kg	06.11.2020 16:52	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	s Analysis Date	Flag	
1-Chlorooctane		111-85-3	88	%	70-135	06.11.2020 16:52	2	
o-Terphenyl		84-15-1	82	%	70-135	06.11.2020 16:52	2	

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## **Certificate of Analytical Results 664100**

## WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id:BH01Lab Sample Id:664100-001	Matrix:	Soil	Date Received	l:06.10.2020 16:47
	Date Collected	1: 06.10.2020 13:07	Sample Depth	: 1 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3128753	Date Prep:	06.11.2020 10:33	Prep Method: % Moisture: Basis:	SW5035A Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.11.2020 13:24	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.11.2020 13:24	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.11.2020 13:24	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	06.11.2020 13:24	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.11.2020 13:24	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.11.2020 13:24	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.11.2020 13:24	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	111	%	70-130	06.11.2020 13:24		
4-Bromofluorobenzene		460-00-4	95	%	70-130	06.11.2020 13:24		

## **Certificate of Analytical Results 664100**

## WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: <b>BH01A</b> Lab Sample Id: 664100-002		Matrix: Date Colle	Soil ected: 06.10.2020 13:19		Date Received:06.10 Sample Depth: 4 ft	0.2020 16	:47
Analytical Method: Chloride by EP	A 300				Prep Method: E300	)P	
Tech: MAB							
Analyst: MAB		Date Prep	: 06.11.2020 15:00		% Moisture: Basis: Wet	Weislet	
Seq Number: 3128747					Dasis. wet	Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	126	10.1	mg/kg	06.11.2020 16:53		1
Analytical Method: TPH by SW80							
Tech: DTH Analyst: DTH Seq Number: 3128769		Date Prep			Prep Method: SW8 % Moisture: Basis: Wet	:015P Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Prep Result	: 06.11.2020 16:50 RL	Units	% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3128769		Ĩ		Units mg/kg	% Moisture: Basis: Wet	Weight	<b>Dil</b>
Tech: DTH Analyst: DTH Seq Number: 3128769 Parameter	Cas Number	Result	RL		% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3128769 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.2	<b>RL</b> 50.2	mg/kg	% Moisture: Basis: Wet Analysis Date 06.11.2020 16:52	Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3128769 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <50.2 <50.2	<b>RL</b> 50.2 50.2	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 06.11.2020 16:52 06.11.2020 16:52	Weight Flag U U	1 1
Tech:       DTH         Analyst:       DTH         Seq Number:       3128769         Parameter         Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)         Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	<b>Result</b> <50.2 <50.2	<b>RL</b> 50.2 50.2 50.2	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 06.11.2020 16:52 06.11.2020 16:52 06.11.2020 16:52	Weight Flag U U U	1 1 1
Tech:DTHAnalyst:DTHSeq Number:3128769ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total GRO-DRO	<b>Cas Number</b> PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result           <50.2	<b>RL</b> 50.2 50.2 50.2 50.2 50.2	mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 06.11.2020 16:52 06.11.2020 16:52 06.11.2020 16:52 06.11.2020 16:52 06.11.2020 16:52	Weight Flag U U U U U	1 1 1 1

99

%

70-135

06.11.2020 16:52

84-15-1

o-Terphenyl

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## **Certificate of Analytical Results 664100**

## WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id:BH01ALab Sample Id:664100-002	Matrix: Soil Date Collected: 06.10.2020	Date Received:06.10.2020 16:47 13:19 Sample Depth: 4 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3128753	Date Prep: 06.11.2020	Prep Method:SW5035A10:33% Moisture: Basis:Wet Weight

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	06.11.2020 13:45	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	06.11.2020 13:45	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	06.11.2020 13:45	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	06.11.2020 13:45	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	06.11.2020 13:45	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	06.11.2020 13:45	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	06.11.2020 13:45	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	97	%	70-130	06.11.2020 13:45		
1,4-Difluorobenzene		540-36-3	109	%	70-130	06.11.2020 13:45		

## **Certificate of Analytical Results 664100**

## WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: BH02 Lab Sample Id: 664100-003		Matrix: Date Colle	Soil ected: 06.10.2020 13:58		Date Received:06.10 Sample Depth: 1 ft	47	
Analytical Method: Chloride by EP	A 300				Prep Method: E300	)P	
Tech: MAB							
Analyst: MAB		Date Prep	: 06.11.2020 15:00		% Moisture:	<b>W</b> 7 * 1 /	
Seq Number: 3128747					Basis: Wet	Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	58.4	10.1	mg/kg	06.11.2020 17:00		1
Analytical Method:TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3128764	15 Mod	Date Prep	: 06.11.2020 17:00		Prep Method: SW8 % Moisture: Basis: Wet	015P Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Prep Result	: 06.11.2020 17:00 RL	Units	% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3128764		Ĩ		Units mg/kg	% Moisture: Basis: Wet	Weight	<b>Dil</b>
Tech: DTH Analyst: DTH Seq Number: 3128764 Parameter	Cas Number	Result	RL		% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3128764 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	<b>Result</b> <49.8	<b>RL</b> 49.8	mg/kg	% Moisture: Basis: Wet Analysis Date 06.11.2020 17:53	Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3128764 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <49.8 <49.8	<b>RL</b> 49.8 49.8	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 06.11.2020 17:53 06.11.2020 17:53	Weight Flag U U	1
Tech:       DTH         Analyst:       DTH         Seq Number:       3128764         Parameter         Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)         Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	<b>Result</b> 49.8 <49.8	<b>RL</b> 49.8 49.8 49.8	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 06.11.2020 17:53 06.11.2020 17:53 06.11.2020 17:53	Weight Flag U U U	1 1 1
Tech:DTHAnalyst:DTHSeq Number:3128764ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total GRO-DRO	<b>Cas Number</b> PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result           <49.8	<b>RL</b> 49.8 49.8 49.8 49.8 49.8	mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 06.11.2020 17:53 06.11.2020 17:53 06.11.2020 17:53 06.11.2020 17:53 06.11.2020 17:53	Weight Flag U U U U U	1 1 1 1

77

%

70-135

06.11.2020 17:53

84-15-1

o-Terphenyl

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Xenco

Environment Testing

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## **Certificate of Analytical Results 664100**

## WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id:         BH02           Lab Sample Id:         664100-003	Matrix:	Soil	Date Received:06.10.2020 16:47		
	Date Collecte	d: 06.10.2020 13:58	Sample Depth: 1 ft		
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3128753	Date Prep:	06.11.2020 10:33	Prep Method: % Moisture: Basis:	SW5035A Wet Weight	

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	06.11.2020 14:05	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	06.11.2020 14:05	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	06.11.2020 14:05	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	06.11.2020 14:05	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	06.11.2020 14:05	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	06.11.2020 14:05	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	06.11.2020 14:05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	108	%	70-130	06.11.2020 14:05		
4-Bromofluorobenzene		460-00-4	95	%	70-130	06.11.2020 14:05		

## **Certificate of Analytical Results 664100**

## WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: <b>BH02A</b> Lab Sample Id: 664100-004		Matrix: Date Colle	Soil ected: 06.10.2020 14:04		Date Received:06.10.2020 16:4 Sample Depth: 3 ft		
Analytical Method: Chloride by EP	A 300				Prep Method: E300	)P	
Tech: MAB							
Analyst: MAB		Date Prep	: 06.11.2020 15:00		% Moisture: Basis: Wet	Weisle	
Seq Number: 3128747					Dasis. wet	Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	297	10.1	mg/kg	06.11.2020 17:07		1
Analytical Method:TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3128764	15 Mod	Date Prep	: 06.11.2020 17:00		Prep Method: SW8 % Moisture: Basis: Wet	8015P Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Prep Result	e: 06.11.2020 17:00 RL	Units	% Moisture:		Dil
Tech:DTHAnalyst:DTHSeq Number:3128764		Ĩ		Units mg/kg	% Moisture: Basis: Wet	Weight	<b>Dil</b>
Tech: DTH Analyst: DTH Seq Number: 3128764 Parameter	Cas Number	Result	RL		% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3128764 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	<b>Result</b> <49.8	<b>RL</b> 49.8	mg/kg	% Moisture: Basis: Wet Analysis Date 06.11.2020 18:13	Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3128764 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <49.8 <49.8	<b>RL</b> 49.8 49.8	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 06.11.2020 18:13 06.11.2020 18:13	Weight Flag U U	1
Tech:       DTH         Analyst:       DTH         Seq Number:       3128764         Parameter         Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)         Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	<b>Result</b> <49.8 <49.8	<b>RL</b> 49.8 49.8 49.8	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 06.11.2020 18:13 06.11.2020 18:13 06.11.2020 18:13	Weight Flag U U U	1 1 1
Tech:       DTH         Analyst:       DTH         Seq Number:       3128764         Parameter         Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)         Motor Oil Range Hydrocarbons (MRO)         Total GRO-DRO	Cas Number PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result           <49.8	<b>RL</b> 49.8 49.8 49.8 49.8 49.8	mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 06.11.2020 18:13 06.11.2020 18:13 06.11.2020 18:13 06.11.2020 18:13 06.11.2020 18:13	Weight Flag U U U U U	1 1 1 1

75

%

70-135

06.11.2020 18:13

84-15-1

o-Terphenyl

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## **Certificate of Analytical Results 664100**

## WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id:BH02ALab Sample Id:664100-004	Matrix:	Soil	Date Received:06.10.2020 16:47	
	Date Collecte	ed: 06.10.2020 14:04	Sample Depth: 3 ft	
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3128753	Date Prep:	06.11.2020 10:33	Prep Method: % Moisture: Basis:	SW5035A Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	06.11.2020 14:26	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	06.11.2020 14:26	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	06.11.2020 14:26	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	06.11.2020 14:26	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	06.11.2020 14:26	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	06.11.2020 14:26	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	06.11.2020 14:26	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	101	%	70-130	06.11.2020 14:26		
1,4-Difluorobenzene		540-36-3	111	%	70-130	06.11.2020 14:26		

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**Environment Testing** 

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## Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected					
<b>RL</b> Reporting Limit						
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection			
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n		
DL Method Detection Limit						
NC Non-Calculable						
SMP Client Sample		BLK	Method Blank			
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate		
MD/SD Method Duplicate/Samp	le Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate		
+ NELAC certification not offered	for this compound.					

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

### QC Summary 664100

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# WSP USA

#### PLU PC 28 Battery

Analytical Method: Seq Number:	3128747				Matrix:					ep Meth Date Pi	rep: 06.1	1.2020	
MB Sample Id:	7705314-1-BL	K		LCS Sar	nple Id:	7705314-2	1-BKS		LCS	D Sampl	e Id: 770	5314-1-BSD	
Parameter	n	MB	Spike	LCS Result		LCSD		Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		esult (10.0	Amount 250	243	<b>%Rec</b> 97	Result 249	%Rec 100	90-110	2	20	mg/kg	06.11.2020 16:18	
		.10.0	250	213	,	217	100	<i>y</i> 0 110	2	20	ing kg		
Analytical Method:	•	PA 3(	)0						Pı	ep Meth			
Seq Number:	3128747				Matrix:					Date Pi	-	1.2020	
Parent Sample Id:	664100-001				-	664100-00	)1 S			•		100-001 SD	
Parameter		rent esult	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		183	200	383	100		101	90-110	0	20	mg/kg	06.11.2020 16:39	
Analytical Method:		PA 3(	)0						Pı	ep Meth			
Seq Number:	3128747				Matrix:					Date Pi	-	1.2020	
Parent Sample Id:	664140-005		_		•	664140-00				-		140-005 SD	
Parameter		rent esult	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		1000	200	21200	100		100	90-110	0	20	mg/kg	06.11.2020 18:17	
Analytical Method:	TPH by SW80	915 M	od						Pı	ep Meth		8015P	
Seq Number:	3128764				Matrix:					Date Pr	-	1.2020	
MB Sample Id:	7705320-1-BL	K		LCS Sar	-	7705320-	I-BKS		LCS	-	e Id: $770$	5320-1-BSD	
Parameter		MB esult	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo		50.0	1000	1020	102	979 1020	98 103	70-135 70-135	4	35 25	mg/kg	06.11.2020 14:40 06.11.2020 14:40	
Diesel Range Organics (	(DRU) <	50.0	1000	1020	102	1030	105	/0-135	1	35	mg/kg	00.11.2020 14.40	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date	
1-Chlorooctane		95			10		105	i		-135	%	06.11.2020 14:40	
o-Terphenyl		93		Ģ	94		96		70	-135	%	06.11.2020 14:40	
Analytical Method:	-	15 M	od						Pı	ep Meth		8015P	
Seq Number:	3128769				Matrix:		DEC		1.000	Date Pi	-	1.2020	
MB Sample Id:	7705315-1-BL				-	7705315-	I-BR2			•		5315-1-BSD	
Parameter		MB esult	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo		(50.0	1000	1100	110		110	70-135 70-135	0	35 35	mg/kg	06.11.2020 14:40 06.11.2020 14:40	
Viacal Rango Organica (	<u>UNU)</u> <	50.0	1000	1140	114	1150	115	10-133	1	55	mg/kg	50.11.2020 14.40	
Diesel Range Organics (		MD	MB		CS	LCS Flag				mits	Units	Analysis	
		MB %Rec	Flag	%	Rec	Flag	%Re	C FIA	5			Date	
Diesel Range Organics ( <b>Surrogate</b> 1-Chlorooctane p-Terphenyl			Flag	1	<b>Rec</b> 35 21	riag	% <b>Re</b> 132 121		70	-135 -135	% %	Date 06.11.2020 14:40 06.11.2020 14:40	

Relative Percent Difference LCS/LCSD Recovery Log Difference  $\begin{array}{l} [D] = 100^{*}(C-A) / B \\ RPD = 200^{*} | (C-E) / (C+E) | \\ [D] = 100^{*} (C) / [B] \\ Log Diff. = Log(Sample Duplicate) - Log(Original Sample) \end{array}$ 

LCS = Laboratory Control SampA = Parent ResultC = MS/LCS ResultE = MSD/LCSD Result MS = Matrix SpikeB = Spike Added D = MSD/LCSD % Rec

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Final 1.001
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#### **QC Summary** 664100

Flag

#### WSP USA PLU PC 28 Battery

Analytical Method: Seq Number:	<b>TPH by SW8015 Mod</b> 3128764	Matrix: MB Sample Id:	Solid 7705320-1-BLK	riep meansur	SW8015P 06.11.2020
Parameter		MB Result		Un	its Analysis Date
Motor Oil Range Hydrocar	bons (MRO)	<50.0		mg	/kg 06.11.2020 14:20
					SW/9015D
	TPH by SW8015 Mod		a	riep meansur	SW8015P
Seq Number:	3128769	Matrix:	Solid	Date Prep:	06.11.2020

Seq Number:	3128769	Matrix: MB Sample Id:	Solid 7705315-1-BLK	Date Prep: 06.	11.2020	
Parameter		MB Result		Units	Analysis Date	Flag
Motor Oil Range Hydroca	rbons (MRO)	<50.0		mg/kg	06.11.2020 14:20	

<b>Analytical Method:</b> Seq Number:	3128764		od		Matrix:	Soil 664100-00	)1 C	Prep Method: SW8015P Date Prep: 06.11.2020 MSD Sample Id: 664100-001 SD							
Parameter			Spike Amount	MS San MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag		
Gasoline Range Hydrocarb Diesel Range Organics		<49.8 <49.8	996 996	924 993	93 100	934 982	93 98	70-135 70-135	1 1	35 35	mg/kg mg/kg	06.11.2020 17:12 06.11.2020 17:12			
Surrogate				MS %Rec		MS Flag		MSD MSD %Rec Flag		imits	Units Analysis Date				
1-Chlorooctane o-Terphenyl		92 81				-135 -135	% %	06.11.2020 17:12 06.11.2020 17:12							

Seq Number: 312	<b>H by SW8015 M</b> 28769 4100-002	od		Matrix: nple Id:	Soil 664100-00	02 S	Prep Method:         SW8015P           Date Prep:         06.11.2020           MSD Sample Id:         664100-002 SD							
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag		
Gasoline Range Hydrocarbons (O	GRO) <50.1	1000	1080	108	1090	109	70-135	1	35	mg/kg	06.11.2020 17:12			
Diesel Range Organics (DRO	0) <50.1	1000	1110	111	1150	115	70-135	4	35	mg/kg	06.11.2020 17:12			
Surrogate		MS %Rec		MS Flag		MSD MSI %Rec Flag		mits	Units	Analysis Date				
1-Chlorooctane		125		11			70	70-135		06.11.2020 17:12				
o-Terphenyl	1	03		105		70	-135	%	06.11.2020 17:12					

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100\*(C-A) / B $\begin{array}{l} \text{[D]} & = 100^{+} \left[ (\text{C-E}) / (\text{C+E}) \right] \\ \text{[D]} & = 100^{+} (\text{C}) / [\text{B}] \\ \text{Log Diff.} & = \text{Log(Sample Duplicate)} - \text{Log(Original Sample)} \end{array}$  LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result

MS = Matrix Spike B = Spike AddedD = MSD/LCSD % Rec

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Xenco

**Environment Testing** 

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### QC Summary 664100

## WSP USA

#### PLU PC 28 Battery

Analytical Method:	BTEX by EPA 8021	5035A													
Seq Number:	3128753		]	Matrix:	Solid			Date Prep: 06.11.2020							
MB Sample Id:	7705310-1-BLK		LCS San	7705310-	LCSD Sample Id: 7705310-1-BSD										
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag			
Benzene	< 0.00200	0.100	0.105	105	0.105	105	70-130	0	35	mg/kg	06.11.2020 18:09				
Toluene	< 0.00200	0.100	0.100	100	0.0997	100	70-130	0	35	mg/kg	06.11.2020 18:09				
Ethylbenzene	<0.00200 0.1		0.0944	94	0.0941	94	71-129	0	35	mg/kg	06.11.2020 18:09				
m,p-Xylenes	< 0.00400	0.200	0.194	97	0.194	97	70-135	0	35	mg/kg	06.11.2020 18:09				
o-Xylene	< 0.00200	0.100	0.0986	99	0.0980	98	98 71-133		35	mg/kg	06.11.2020 18:09				
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Ree			imits	Units	Analysis Date				
1,4-Difluorobenzene	108		1	04		102		70	)-130	%	06.11.2020 18:09				
4-Bromofluorobenzene	96		9	94		89		70	)-130	%	06.11.2020 18:09				

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 8021</b> 3128753 664100-001	В		Matrix: nple Id:	Soil 664100-00	)1 S		Prep Method:         SW5035A           Date Prep:         06.11.2020           MSD Sample Id:         664100-001 SD					
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
Benzene	< 0.00200	0.0998	0.115	115	0.0991	99	70-130	15	35	mg/kg	06.11.2020 12:23		
Toluene	< 0.00200	0.0998	0.106	106	0.0951	95	70-130	11	35	mg/kg	06.11.2020 12:23		
Ethylbenzene	< 0.00200	0.0998	0.0938	94	0.0903	90	71-129	4	35	mg/kg	06.11.2020 12:23		
m,p-Xylenes	< 0.00399	0.200	0.193	97	0.186	93	70-135	4	35	mg/kg	06.11.2020 12:23		
o-Xylene	< 0.00200	0.0998	0.0974	98	0.0935	94	71-133	4	35	mg/kg	06.11.2020 12:23		
Surrogate				1S Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date		
1,4-Difluorobenzene			1	09		100		70	-130	%	06.11.2020 12:23		
4-Bromofluorobenzene			9	96		93		70	-130	%	06.11.2020 12:23		

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Rec	elve	5 hald may	Relinquished by: (Signature)	Total 200.7 / 6010 Circle Method(s) and Rotice: Signature of this docum a service. Xenco will be liable a Xenco. A minimum charge of	8 <del>:42:</del>	24 A.	ZMZ		KH02A	BH02	BHOIA	1 OH A	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature /°C1:	2	ne:	P.O. Number:	Project Number:	Project Name:	Phone: (43)	City, State ZIP: Mid	Address: 330	Company Name: LT	Project Manager: Dau		246 of 3
			jnature)	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed Signature of this document and relinquishment of samples Signature of this document and relinquishment of samples and sh ice. Xenco will be liable only for the cost of samples and sh ice. A minimum charge of \$75.00 will be applied to each proj				4	*			S	ation Matrix	Yes No NIA	ō	Yes No	0		Robert McAfee		012919281	PLU PC 28	(432) 701-2610	Midland, TX 79705	3300 North A St. Bldg 1, Unit 222	LT Environmental, Inc., Permian office	Dan Moir	BORATORIES	
	4	τ	Received by: (Signature)	al 200.7 / 6010       200.8 / 6020:       8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr C         rcle Method(s) and Metal(s) to be analyzed       TCLP / SPLP 6010:       8RCRA Sb As Ba Be Cd Cr Co Cu         gnature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcom       . 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         A minimum charge of \$7.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms					HOH 4	1358	1319	06/10/20 1307	Date Time Sampled Sampled	Total Containers:	Correction Factor:	HUMO 07	Thermometer	No M	D	Ru		Battery	Em	-	, Unit 222	Permian office		Hous Mic Hobbs,NM (575-	
		010	iture)	RCRA 13PPM Texas 11 A TCLP / SPLP 6010: 8RCRA utes a valid purchase order from client - tassume any responsibility for any losse a charge of \$5 for each sample submitt					3'	11	4	1' 1	d Depth	A	2.0.2	~	UNI (Sal		Due Date:	Rush:	Routine	Turn Around	Email: dmoir@ltenv.com rmcafee@ltenv.com	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800	
		920 16:47	Date/Time	Al Sb As Ba Be E A Sb As Ba Be C nt company to Xenco, its a sses or expenses incurred I nitted to Xenco, but not ana			R		×××××	× × ×	X X X	X X X	TPH (EF BTEX (E Chloride	PA 80	915) 3021)								m rmcafee@ltenv.	Carlsbad, NM	3104 E Greene St	XTO Energy	Kyle Littrell	Dallas,TX (214) 902-03 EL Paso,TX (915)585- (480-355-0900) Atlanta	Chain of Custody
0	4 0	2	Relinquished by: (Signature)	Total 200.7 / 6010       200.8 / 6020:       8RCRA       13PPM       Texas 11       Al       Sb       As       Ba       Be       Cd       Car       Cor       Curcle Pb       Mg       Mn       Mo       Ni       K       Se       A         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         Orice:       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         Notice:       Signature of this document and relinquishment 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         Vol Xenco.       A minimum charge of \$7.00 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.																		ANALYSIS REQUEST	com					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 (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)	ustody
			Ire) Received by: (Signature)	Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Pb Mn Mo Ni Se Ag TI U ractors. It assigns standard terms and conditions losses are due to circumstances beyond the control will be enforced unless previously negotiated.																		EST	Deliverables: EDD	Reporting:Level IIlevel III	State of Project: NM	Program: UST/PST PRP	Work O	-620-2000) <u>www.xenco.com</u>	Work Order No:
Revised Date 051418 Rev. 2018.1			nature) Date/Time	)2 Na Sr TI Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg					*			discrete	Sample Comments	lab, if received by 4:30pm	TAT starts the day recevie							Work Order Notes	ADaPT Other:	ST/UST RRP Bvei IV		Brownfields RC Duperfund	Work Order Comments	o.com Page / of	ter No: Leley 100

Released to Imaging: 4/8/2021 3:32:01 PM

Final 1.001

### **XENCO** Laboratories

### Prelogin/Nonconformance Report- Sample Log-In

Date/ Time Received: 06.10.2020 04.47.00 PM       Air and Metal samples Acceptable Range: Ambient         Work Order #: 664100       Temperature Measuring device used : T-NM-007         Sample Receipt Checklist       Comments         #1 *Temperature of cooler(s)?       2.4
Sample Receipt Checklist Comments
#1 *Temperature of cooler(s)? 2.4
#2 *Shipping container in good condition? Yes
#3 *Samples received on ice? Yes
#4 *Custody Seals intact on shipping container/ cooler? Yes
#5 Custody Seals intact on sample bottles? Yes
#6*Custody Seals Signed and dated? Yes
#7 *Chain of Custody present? Yes
#8 Any missing/extra samples? No
#9 Chain of Custody signed when relinquished/ received? Yes
#10 Chain of Custody agrees with sample labels/matrix? Yes
#11 Container label(s) legible and intact? Yes
#12 Samples in proper container/ bottle? Yes Samples received in bulk containers.
#13 Samples properly preserved? Yes
#14 Sample container(s) intact? Yes
#15 Sufficient sample amount for indicated test(s)? Yes
#16 All samples received within hold time? Yes
#17 Subcontract of sample(s)? No
#18 Water VOC samples have zero headspace? N/A

#### \* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Date: 06.10.2020

Checklist reviewed by: fession Vramer Jessica Kramer

Date: 06.11.2020

Xenco

Certificate of Analysis Summary 667224 WSP USA, Dallas, TX

Project Name: PLU PC 28 Battery

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Environment Testing

**Project Id:** 012918281

**Contact:** Dan Moir

**Project Location:** 

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Date Received in Lab: Wed 07.15.2020 09:30 **Report Date:** 11.24.2020 09:40 Project Manager: Jessica Kramer

Lab Id: 667224-001 667224-002 Field Id: BH03 BH03A Analysis Requested Depth: 1.5- ft 6- ft Matrix: SOIL SOIL Sampled: 07.13.2020 09:47 07.13.2020 09:28 BTEX by EPA 8021B 07.15.2020 12:37 07.15.2020 12:37 Extracted: Analyzed: 07.15.2020 16:36 07.15.2020 16:57 RL mg/kg RL Units/RL: mg/kg < 0.00200 0.00200 < 0.00202 0.00202 Benzene 0.00202 Toluene < 0.00202 < 0.00200 0.00200 < 0.00202 0.00202 < 0.00200 0.00200 Ethylbenzene 0.00403 < 0.00400 0.00400 < 0.00403 m,p-Xylenes o-Xylene < 0.00202 0.00202 < 0.00200 0.00200 0.00202 0.00200 < 0.00202 < 0.00200 Total Xylenes Total BTEX < 0.00202 0.00202 < 0.00200 0.00200 Chloride by EPA 300 Extracted: 07.15.2020 16:02 07.15.2020 16:02 Analyzed: 07.15.2020 17:41 07.15.2020 17:47 RL RL Units/RL: mg/kg mg/kg Chloride 195 10.1 788 10.1 TPH by SW8015 Mod Extracted: 07.15.2020 11:15 07.15.2020 11:15 Analyzed: 07.15.2020 14:14 07.15.2020 14:35 RL mg/kg RL Units/RL: mg/kg Gasoline Range Hydrocarbons (GRO) <49.9 49.9 < 50.2 50.2 Diesel Range Organics (DRO) <49.9 49.9 < 50.2 50.2 Motor Oil Range Hydrocarbons (MRO) 49.9 < 50.2 50.2 <49.9 Total GRO-DRO <49.9 49.9 < 50.2 50.2 Total TPH <49.9 49.9 < 50.2 50.2

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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## Analytical Report 667224

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for

## WSP USA

**Project Manager: Dan Moir** 

PLU PC 28 Battery

#### 012918281

#### 11.24.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

11.24.2020
Project Manager: Dan Moir
WSP USA
2777 N. Stemmons Freeway, Suite 1600
Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): 667224 PLU PC 28 Battery Project Address:

#### Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 667224. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 667224 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession beamer

Jessica Kramer Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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## Sample Cross Reference 667224

#### WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH03	S	07.13.2020 09:28	1.5 ft	667224-001
BH03A	S	07.13.2020 09:47	6 ft	667224-002

Environment Testing Xenco

### **CASE NARRATIVE**

Client Name: WSP USA Project Name: PLU PC 28 Battery

 Project ID:
 012918281

 Work Order Number(s):
 667224

Report Date: *11.24.2020* Date Received: *07.15.2020* 

Sample receipt non conformances and comments:

V1.001 revision (client email) Changed samples IDs

Sample receipt non conformances and comments per sample:

None
# **Certificate of Analytical Results 667224**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id:BH03Lab Sample Id:667224-001		Matrix: Date Colle	Soil cted: 07.13.2020 09:28		Date Received:07.15 Sample Depth: 1.5 f		:30
Analytical Method: Chloride by EF	PA 300				Prep Method: E300	)P	
Tech: MAB							
Analyst: MAB		Date Prep:	07.15.2020 16:02		% Moisture: Basis: Wet	<b>XX7 * 1</b> .	
Seq Number: 3131770					Basis: Wet	Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	195	10.1	mg/kg	07.15.2020 17:41		1
Analytical Method: TPH by SW80	15 Mod				Prep Method: SW8	015P	
Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3131775 Parameter	15 Mod Cas Number	Date Prep: Result	07.15.2020 11:15 RL	Units	Prep Method: SW8 % Moisture: Basis: Wet	015P Weight Flag	Dil
Tech: DTH Analyst: DTH Seq Number: 3131775 Parameter					% Moisture: Basis: Wet	Weight	<b>Dil</b>
Tech: DTH Analyst: DTH Seq Number: 3131775	Cas Number	Result	RL	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3131775 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <49.9	<b>RL</b> 49.9	mg/kg	% Moisture: Basis: Wet Analysis Date 07.15.2020 14:14	Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3131775 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <49.9 <49.9	<b>RL</b> 49.9 49.9	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 07.15.2020 14:14 07.15.2020 14:14	Weight Flag U U	1
Tech: DTH Analyst: DTH Seq Number: 3131775 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	<b>Result</b> <49.9 <49.9 <49.9 <49.9	<b>RL</b> 49.9 49.9 49.9	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 07.15.2020 14:14 07.15.2020 14:14 07.15.2020 14:14	Weight Flag U U U	1 1 1
Tech: DTH Analyst: DTH Seq Number: 3131775 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	Cas Number PHC610 C10C28DRO PHCG2835 PHC628 PHC635	<b>Result</b> <49.9 <49.9 <49.9 <49.9 <49.9 <49.9	<b>RL</b> 49.9 49.9 49.9 49.9	mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 07.15.2020 14:14 07.15.2020 14:14 07.15.2020 14:14 07.15.2020 14:14 07.15.2020 14:14	Weight Flag U U U U U	1 1 1 1

101

%

70-135

07.15.2020 14:14

84-15-1

o-Terphenyl

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Environment Testing

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# **Certificate of Analytical Results 667224**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: Lab Sample I	<b>BH03</b> d: 667224-001	Matrix: Date Collected	Soil l: 07.13.2020 09:28	Date Received Sample Depth:	l:07.15.2020 09:30 : 1.5 ft
5	ethod: BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			0/ 1/	
Analyst:	MAB	Date Prep:	07.15.2020 12:37	% Moisture: Basis:	Wet Weight
Seq Number:	3131767			Dasis.	wei weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	07.15.2020 16:36	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	07.15.2020 16:36	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	07.15.2020 16:36	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	07.15.2020 16:36	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	07.15.2020 16:36	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	07.15.2020 16:36	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	07.15.2020 16:36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	103	%	70-130	07.15.2020 16:36		
1,4-Difluorobenzene		540-36-3	100	%	70-130	07.15.2020 16:36		

# **Certificate of Analytical Results 667224**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: BH03A Lab Sample Id: 667224-002		Matrix: Date Col	Soil lected: 07.13.2020 09:	47	Date Received:07.1 Sample Depth: 6 ft	5.2020 09:	:30
Analytical Method: Chloride by EP	PA 300				Prep Method: E300	0P	
Tech: MAB Analyst: MAB			07 15 2020 16		% Moisture:		
Analyst: MAB Seq Number: 3131770		Date Prep	p: 07.15.2020 16:	92	Basis: Wet	Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	788	10.1	mg/kg	07.15.2020 17:47		1
Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH Seq Number: 3131775	15 Mod	Date Prep	p: 07.15.2020 11:	15	Prep Method: SW8 % Moisture: Basis: Wet	8015P Weight	
Tech: DTH Analyst: DTH	15 Mod Cas Number	Date Prep Result	p: 07.15.2020 11: RL	15 Units	% Moisture:		Dil
Tech:DTHAnalyst:DTHSeq Number:3131775					% Moisture: Basis: Wet	Weight	<b>Dil</b>
Tech: DTH Analyst: DTH Seq Number: 3131775 Parameter	Cas Number	Result	RL	Units	% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: DTH Analyst: DTH Seq Number: 3131775 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result	RL 50.2	Units mg/kg	% Moisture: Basis: Wet Analysis Date 07.15.2020 14:35	Weight Flag U	1
Tech: DTH Analyst: DTH Seq Number: 3131775 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.2 <50.2	RL 50.2 50.2	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 07.15.2020 14:35 07.15.2020 14:35	Weight Flag U U	1
Tech: DTH Analyst: DTH Seq Number: 3131775 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	<b>Result</b> <50.2 <50.2 <50.2	<b>RL</b> 50.2 50.2 50.2	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 07.15.2020 14:35 07.15.2020 14:35 07.15.2020 14:35	Weight Flag U U U	1 1 1
Tech: DTH Analyst: DTH Seq Number: 3131775 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	<b>Cas Number</b> PHC610 C10C28DRO PHCG2835 PHC628 PHC635	<b>Result</b> <50.2 <50.2 <50.2 <50.2 <50.2 <50.2 <50.2 <50.2	RL 50.2 50.2 50.2 50.2 50.2	Units mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 07.15.2020 14:35 07.15.2020 14:35 07.15.2020 14:35 07.15.2020 14:35 07.15.2020 14:35 07.15.2020 14:35	Weight Flag U U U U U	1 1 1 1

107

%

70-135

84-15-1

o-Terphenyl

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07.15.2020 14:35

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# **Certificate of Analytical Results 667224**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: Lab Sample I	<b>BH03A</b> d: 667224-002	Matrix: Date Collected	Soil l: 07.13.2020 09:47	Date Received Sample Depth:	l:07.15.2020 09:30 : 6 ft
5	ethod: BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	07.15.2020 12:37	Basis:	Wet Weight
Seq Number:	3131767				wee wergin

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	07.15.2020 16:57	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	07.15.2020 16:57	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	07.15.2020 16:57	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	07.15.2020 16:57	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	07.15.2020 16:57	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	07.15.2020 16:57	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	07.15.2020 16:57	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	100	%	70-130	07.15.2020 16:57		
4-Bromofluorobenzene		460-00-4	105	%	70-130	07.15.2020 16:57		

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**Environment Testing** 

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# Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Sam	ple Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	l for this compound.			

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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Environment Testing

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## QC Summary 667224

# WSP USA

### PLU PC 28 Battery

<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>Chloride by</b> 3131770 7707423-1-1		)0		Matrix: nple Id:	Solid 7707423-	1-BKS			rep Methe Date Pr D Sample	ep: 07.1	0P 5.2020 7423-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Boggett	LCSD	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	250 Allount	253	101	Result 264	<b>%Rec</b> 106	90-110	4	20	mg/kg	07.15.2020 16:34	
Analytical Method: Seq Number:	<b>Chloride by</b> 3131770	y EPA 3(	)0		Matrix:	S1			Pi	rep Methe Date Pr		0P .5.2020	
Parent Sample Id:	667020-001					667020-0	01 S		MS		-	020-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<10.0	200	209	105	208	104	90-110	0	20	mg/kg	07.15.2020 16:51	
Analytical Method:	Chloride by	y EPA 3(	)0						Pi	rep Meth	od: E30	0P	
Seq Number:	3131770				Matrix:					Date Pr	•	5.2020	
Parent Sample Id:	667339-001					667339-0	01 S			-		339-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		382	200	587	103	586	103	90-110	0	20	mg/kg	07.15.2020 18:09	
Analytical Method: Seq Number:	<b>TPH by SW</b> 3131775	V8015 M	od		Matrix:	Solid			Pı	rep Methe Date Pr		8015P 5.2020	
MB Sample Id:	7707420-1-3	BLK		LCS Sar	nple Id:	7707420-	1-BKS		LCS	D Sample	e Id: 770	7420-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo Diesel Range Organics (		<50.0 <50.0	1000 1000	1020 1100	102 110	1010 1050	101 105	70-135 70-135	1 5	35 35	mg/kg mg/kg	07.15.2020 10:48 07.15.2020 10:48	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane o-Terphenyl		95 102			09 05		110 103			-135 -135	% %	07.15.2020 10:48 07.15.2020 10:48	
<b>Analytical Method:</b> Seq Number:	<b>TPH by SW</b> 3131775	V8015 M	od		Matrix: nple Id:	Solid 7707420-	1-BLK		Pi	rep Methe Date Pr		8015P 5.2020	
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocart	oons (MRO)			<50.0							mg/kg	07.15.2020 10:27	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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```
Final 1.002
```

## QC Summary 667224

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# WSP USA

### PLU PC 28 Battery

Analytical Method: Seq Number:	3131775		od		Matrix:					ep Metho Date Pr	ep: 07.1	8015P 15.2020	
Parent Sample Id:	667020-00	1		MS San	nple Id:	667020-00	)1 S		MS	D Sample	e Id: 667	020-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	< 50.1	1000	871	87	880	88	70-135	1	35	mg/kg	07.15.2020 11:50	
Diesel Range Organics	(DRO)	< 50.1	1000	1030	103	1020	102	70-135	1	35	mg/kg	07.15.2020 11:50	
Surrogate					IS Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane				1	12		113	;	70	-135	%	07.15.2020 11:50	
o-Terphenyl				1	12		109	)	70	-135	%	07.15.2020 11:50	

Analytical Method:	BTEX by EPA 8021	В						P	rep Metho	od: SW	5035A	
Seq Number:	3131767		]	Matrix:	Solid				Date Pr	ep: 07.1	15.2020	
MB Sample Id:	7707425-1-BLK		LCS San	nple Id:	7707425-	1-BKS		LCS	D Sample	e Id: 770	7425-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.111	111	0.114	114	70-130	3	35	mg/kg	07.15.2020 12:27	
Toluene	< 0.00200	0.100	0.105	105	0.108	108	70-130	3	35	mg/kg	07.15.2020 12:27	
Ethylbenzene	< 0.00200	0.100	0.0999	100	0.102	102	71-129	2	35	mg/kg	07.15.2020 12:27	
m,p-Xylenes	< 0.00400	0.200	0.202	101	0.207	104	70-135	2	35	mg/kg	07.15.2020 12:27	
o-Xylene	< 0.00200	0.100	0.0972	97	0.101	101	71-133	4	35	mg/kg	07.15.2020 12:27	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	99		9	9		101		70	-130	%	07.15.2020 12:27	
4-Bromofluorobenzene	94		9	8		102		70	-130	%	07.15.2020 12:27	

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 8021</b> 3131767 667020-001	B		Matrix: nple Id:	Soil 667020-00	)1 S			rep Methe Date Pr D Sample	ep: 07.1	5035A 5.2020 020-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.100	0.124	124	0.118	117	70-130	5	35	mg/kg	07.15.2020 13:10	
Toluene	< 0.00201	0.100	0.117	117	0.114	113	70-130	3	35	mg/kg	07.15.2020 13:10	
Ethylbenzene	< 0.00201	0.100	0.108	108	0.106	105	71-129	2	35	mg/kg	07.15.2020 13:10	
m,p-Xylenes	< 0.00402	0.201	0.217	108	0.212	105	70-135	2	35	mg/kg	07.15.2020 13:10	
o-Xylene	< 0.00201	0.100	0.106	106	0.104	103	71-133	2	35	mg/kg	07.15.2020 13:10	
Surrogate				IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	00		100		70	-130	%	07.15.2020 13:10	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

4-Bromofluorobenzene

 $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

100

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.

07.15.2020 13:10

Page 12 of 14

101

70-130

%

Received by OCD Relinquished by: (Signature)		3:42:24			BHOIA	BHOI	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	<u>}</u>	ne:	P.O. Number:	Project Number:	Project Name:	Phone: (43	City, State ZIP: Mid	Address: 33	Company Name: LT	Project Manager:	Page 260 of
Signature)	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed isignature of this document and relinquishment of samples ice. Xenco will be liable only for the cost of samples and sh ice. A minimum charge of \$75.00 will be applied to each proj				5	S	cation Matrix	Yes No N/A	Yes No NA	mes	L Iemp Blank:		Robert McAfee		01291928	PLN PC 25	(432) 701-2610	Midland, TX 79705	3300 North A St. Bldg 1, Unit 222	LT Environmental, Inc., Permian office	Dan Moir	
Received-by: (Signature)	8RCRA analyzed TCLP t of samples constitutes a v mples and shall not assume to each project and a charg					07/13/2020 00	Date Sampled		A Correction Factor:	t	(Yes/No			-		8 Battery		-	g 1, Unit 222	c., Permian office		Hobbs,NM
Signature)	RCRA 13PPM Texas 11 A TCLP / SPLP 6010: 8RCRA utes a valid purchase order from client assume any responsibility for any losse a charge of \$5 for each sample submitt				,9 thbo	0928 1.5'	Time Depth Sampled	ntainers: 2	n Factor: -0-2	TIMOON	Thermometer ID		Due Date:	Rush:	Routine 1	Turn Around	Email: dmoir@lte	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	Houston, TX (281) 240- Midland, TX (432-704 (575-392-7550) Phoeni
Date/Time	11 AI Sb As Ba Be RCRA Sb As Ba Be m client company to Xenco, its my losses or expenses incurred submitted to Xenco, but not a		The second secon		X X 1	XXXI	Numb TPH (E BTEX ( Chlorid	PA 80	015) 8021	)	iers						Email: dmoir@ltenv.com rmcafee@ltenv.com	IP: Carlsbad, NM	3104 E Greene St.	ame: XTO Energy	rent) Kyle Littrell	Chain of Custody 4200 Dallas, TX (214) 902-0300 San Antonio, T -5440) EL Paso, TX (915)585-3443 Lubbock, T x, AZ (480-355-0900) Atlanta, GA (770-449-880
<ul> <li>Relinquished by: (Signature)</li> <li>2</li> <li>4</li> <li>6</li> </ul>	B Cd Ca Cr Co Cu Fe Cd Cr Co Cu Pb Mn M affiliates and subcontractors. It ass d by the client if such losses are du nalyzed. These terms will be enforce															ANALYSIS REQUEST	.com		St.			<b>Chain of Custody</b> 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)
ture) Receive	Pb Mg Mn Mo Ni K Se o Ni Se Ag TI U signs standard terms and conditions to circumstances beyond the contr a to circumstances beyond the contr								2							JEST	Deliverables: EDD	Reporting:Level II	State of Project:	Program: UST/PST		
Received by: (Signature)	g SiO2							T	TAT								ADaPT	evel III ST/UST		PRP Brownfields	Work Order Comments	Work Order No:
Date/Time Revised Date 051418 Rev. 2018.1	Na Sr TI Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg				discrete	discrete	Sample Comments	lab, if received by 4:30pm	TAT starts the day recevied by the							Work Order Notes	Other:			RC uperfund	nents	(2(2+2)24) Page 1 of 1

## **Eurofins Xenco, LLC**

## Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature I	Range: 0 - 6 degC
Date/ Time Received: 07.15.2020 09.30.00 AM	Air and Metal samples Ac	
Work Order #: 667224	Temperature Measuring d	evice used : T-NM-007
Sample Re	ceipt Checklist	Comments
#1 *Temperature of cooler(s)?	3	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	Samples received in bulk containers.
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

### \* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Date: 07.15.2020

Checklist reviewed by: Jessica Vramer

Date: 07.16.2020

**Environment Testing** 

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Xenco

Project Id: 012919281 Dan Moir

**Contact:** 

**Project Location:** 

Certificate of Analysis Summary 645818

LT Environmental, Inc., Arvada, CO

### Project Name: PLU PC 28 Fed Battery

**Date Received in Lab:** Tue 12.10.2019 16:45 Report Date: 11.24.2020 12:11

Project Manager: Jessica Kramer

	Lab Id:	645818-0	001	645818-0	02	645818-0	03	645818-0	04		
Analysis Requested	Field Id:	FS02		FS01		FS05		FS03			
Analysis Kequestea	Depth:	1- ft		1- ft		1- ft		1- ft			
	Matrix:	SOIL		SOIL	SOIL SOIL			SOIL			
	Sampled:	12.10.2019 10:35		12.10.2019	2019 10:50 12.10.2019 13:10		12.10.2019 13:20				
BTEX by EPA 8021B	Extracted:	12.10.2019	19:43	12.10.2019	19:43	12.10.2019	19:43	12.10.2019	19:43		
	Analyzed:	12.11.2019	01:48	12.11.2019 (	02:07	12.11.2019	02:26	12.11.2019	02:45		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		0.144	0.0998	5.18	0.198	2.89	0.199	1.57	0.200		
Toluene		4.96	0.200	34.4	0.198	57.2 D	0.994	20.2	0.200		
Ethylbenzene		3.56	0.200	10.4	0.198	19.0	0.199	6.94	0.200		
m,p-Xylenes		15.1	0.399	45.5	0.395	104 D	1.99	30.1	0.400		
o-Xylene		8.39	0.200	15.8	0.198	28.8	0.199	11.9	0.200		
Total Xylenes		23.5	0.200	61.3	0.198	133	0.199	42.0	0.200		
Total BTEX		32.2	0.0998	111	0.198	212	0.199	70.7	0.200		
Chloride by EPA 300	Extracted:	12.10.2019	17:44	12.10.2019	17:44	12.10.2019 17:44		12.10.2019 17:44			
	Analyzed:	12.10.2019	23:44	12.11.2019	00:04	12.11.2019 00:11		12.11.2019 00:17			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		2190	49.5	7400	49.9	2150	50.0	4440	49.7		
TPH by SW8015 Mod	Extracted:	12.10.2019	16:45	12.10.2019	17:00	12.10.2019	17:00	12.10.2019	17:00		
	Analyzed:	12.11.2019	12:52	12.11.2019	08:26	12.11.2019	13:12	12.11.2019	08:46		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		1160	251	1930	49.9	3920	250	1330	49.8		
Diesel Range Organics (DRO)		5540	251	4540	49.9	9910	250	2770	49.8		
Motor Oil Range Hydrocarbons (MRO)		551	251	340	49.9	747	250	220	49.8		
Total GRO-DRO		6700	251	6470	49.9	13800	250	4100	49.8		
Total TPH		7250	251	6810	49.9	14600	250	4320	49.8		

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jession Vramer

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# Analytical Report 645818

for

## LT Environmental, Inc.

**Project Manager: Dan Moir** 

PLU PC 28 Fed Battery 012919281

### 11.24.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

Xenco

11.24.2020

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Project Manager: **Dan Moir LT Environmental, Inc.** 4600 W. 60th Avenue Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): 645818 PLU PC 28 Fed Battery Project Address:

#### Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 645818. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 645818 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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## Sample Cross Reference 645818

### LT Environmental, Inc., Arvada, CO

PLU PC 28 Fed Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS02	S	12.10.2019 10:35	1 ft	645818-001
FS01	S	12.10.2019 10:50	1 ft	645818-002
FS05	S	12.10.2019 13:10	1 ft	645818-003
FS03	S	12.10.2019 13:20	1 ft	645818-004

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## **CASE NARRATIVE**

Client Name: LT Environmental, Inc. Project Name: PLU PC 28 Fed Battery

 Project ID:
 012919281

 Work Order Number(s):
 645818

Report Date: *11.24.2020* Date Received: *12.10.2019* 

### Sample receipt non conformances and comments:

Per clients email, corrected samples as follows below. New version generated JK 12/18/19 FS03 --> FS04 FS04 --> FS05

#### V1.002 REVISION - CORRECTED SAMPLE IDS

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3110075 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3110172 TPH by SW8015 Mod Surrogate 1-Chlorooctane, Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis. Samples affected are: 645694-014 SD.

# **Certificate of Analytical Results 645818**

## LT Environmental, Inc., Arvada, CO

PLU PC 28 Fed Battery

Sample Id: <b>FS02</b> Lab Sample Id: 645818-001		Matrix: Date C	Soil ollected: 12.10	0.2019 10:35		Date Received:12.10 Sample Depth: 1 ft	0.2019 16:	45
Analytical Method: Chloride by EPA	A 300					Prep Method: E300	)P	
Tech: MAB								
Analyst: MAB		Date Pr	rep: 12.10	0.2019 17:44		% Moisture:	<b>W</b> 7 * 1 /	
Seq Number: 3110096						Basis: Wet	Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2190	49.5		mg/kg	12.10.2019 23:44		5
Analytical Method:TPH by SW801Tech:DTHAnalyst:DTHSeq Number:3110172	5 Mod	Date Pr	rep: 12.10	0.2019 16:45		Prep Method: SW8 % Moisture: Basis: Wet	015P Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	1160	251		mg/kg	12.11.2019 12:52		DI
······································	1110010		251		mg/kg	12.11.2019 12.32		5
Diesel Range Organics (DRO)	C10C28DRO	5540	251		mg/kg	12.11.2019 12:52		
<b>0</b> .		5540 551						5
Diesel Range Organics (DRO)	C10C28DRO		251		mg/kg	12.11.2019 12:52		5 5
Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	C10C28DRO PHCG2835	551	251 251		mg/kg mg/kg	12.11.2019 12:52 12.11.2019 12:52		5 5 5
Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	C10C28DRO PHCG2835 PHC628	551 6700	251 251 251	Units	mg/kg mg/kg mg/kg	12.11.2019 12:52 12.11.2019 12:52 12.11.2019 12:52 12.11.2019 12:52	Flag	5 5 5 5
Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	C10C28DRO PHCG2835 PHC628	551 6700 7250	251 251 251 251	Units %	mg/kg mg/kg mg/kg mg/kg	12.11.2019 12:52 12.11.2019 12:52 12.11.2019 12:52 12.11.2019 12:52	Flag	5 5 5 5

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# **Certificate of Analytical Results 645818**

## LT Environmental, Inc., Arvada, CO

PLU PC 28 Fed Battery

Sample Id:FS02Lab Sample Id:645818-001	Matrix:	Soil	Date Receive	d:12.10.2019 16:45
	Date Collected	d: 12.10.2019 10:35	Sample Deptl	h: 1 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3110075	Date Prep:	12.10.2019 19:43	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.144	0.0998		mg/kg	12.11.2019 01:48		100
Toluene	108-88-3	4.96	0.200		mg/kg	12.11.2019 01:48		100
Ethylbenzene	100-41-4	3.56	0.200		mg/kg	12.11.2019 01:48		100
m,p-Xylenes	179601-23-1	15.1	0.399		mg/kg	12.11.2019 01:48		100
o-Xylene	95-47-6	8.39	0.200		mg/kg	12.11.2019 01:48		100
Total Xylenes	1330-20-7	23.5	0.200		mg/kg	12.11.2019 01:48		100
Total BTEX		32.2	0.0998		mg/kg	12.11.2019 01:48		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	115	%	70-130	12.11.2019 01:48		
1,4-Difluorobenzene		540-36-3	99	%	70-130	12.11.2019 01:48		

# **Certificate of Analytical Results 645818**

## LT Environmental, Inc., Arvada, CO

PLU PC 28 Fed Battery

Sample Id:FS01Lab Sample Id:645818-002		Matrix: Date Co	atrix:SoilDate Received:12.10.2019 16te Collected: 12.10.2019 10:50Sample Depth: 1 ft					45
Analytical Method: Chloride by EPA	A 300					Prep Method: E300	)P	
Tech: MAB								
Analyst: MAB		Date Pr	ep: 12.10	.2019 17:44		% Moisture: Basis: Wet	Watala	
Seq Number: 3110096			-			Basis. wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7400	49.9		mg/kg	12.11.2019 00:04		5
Analytical Method: TPH by SW801	5 Mod					Prep Method: SW8	015P	
Analytical Method:TPH by SW801:Tech:DTHAnalyst:DTHSeq Number:3110188	5 Mod	Date Pr	ep: 12.10	.2019 17:00		% Moisture:	015P Weight	
Tech: DTH Analyst: DTH Seq Number: 3110188	5 Mod Cas Number	Date Pr Result	ep: 12.10 RL	.2019 17:00	Units	% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3110188 Parameter			-	.2019 17:00		% Moisture: Basis: Wet	Weight	<b>Dil</b>
Tech: DTH Analyst: DTH	Cas Number	Result	RL	.2019 17:00	Units	% Moisture: Basis: Wet Analysis Date	Weight	
Tech: DTH Analyst: DTH Seq Number: 3110188 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result 1930	RL 49.9	.2019 17:00	Units mg/kg	% Moisture: Basis: Wet Analysis Date 12.11.2019 08:26	Weight	1
Tech: DTH Analyst: DTH Seq Number: 3110188 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result 1930 4540	<b>RL</b> 49.9 49.9	.2019 17:00	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.11.2019 08:26 12.11.2019 08:26	Weight	1 1
Tech: DTH Analyst: DTH Seq Number: 3110188 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result 1930 4540 340	<b>RL</b> 49.9 49.9 49.9	.2019 17:00	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.11.2019 08:26 12.11.2019 08:26 12.11.2019 08:26	Weight	1 1 1
Tech: DTH Analyst: DTH Seq Number: 3110188 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	<b>Cas Number</b> PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result 1930 4540 340 6470 6810	<b>RL</b> 49.9 49.9 49.9 49.9 49.9	.2019 17:00 Units	Units mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.11.2019 08:26 12.11.2019 08:26 12.11.2019 08:26 12.11.2019 08:26 12.11.2019 08:26	Weight	1 1 1 1
Tech: DTH Analyst: DTH Seq Number: 3110188 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	Cas Number PHC610 C10C28DR0 PHCG2835 PHC628 PHC635	Result 1930 4540 340 6470 6810	<b>RL</b> 49.9 49.9 49.9 49.9 49.9 49.9		Units mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.11.2019 08:26 12.11.2019 08:26 12.11.2019 08:26 12.11.2019 08:26 12.11.2019 08:26 12.11.2019 08:26 Mnalysis Date	Weight Flag	1 1 1 1

# **Certificate of Analytical Results 645818**

## LT Environmental, Inc., Arvada, CO

PLU PC 28 Fed Battery

Sample Id:FS01Lab Sample Id:645818-002		Soil 12.10.2019 10:50	Date Received Sample Depth:	:12.10.2019 16:45 1 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3110075	Date Prep:	12.10.2019 19:43	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	5.18	0.198		mg/kg	12.11.2019 02:07		100
Toluene	108-88-3	34.4	0.198		mg/kg	12.11.2019 02:07		100
Ethylbenzene	100-41-4	10.4	0.198		mg/kg	12.11.2019 02:07		100
m,p-Xylenes	179601-23-1	45.5	0.395		mg/kg	12.11.2019 02:07		100
o-Xylene	95-47-6	15.8	0.198		mg/kg	12.11.2019 02:07		100
Total Xylenes	1330-20-7	61.3	0.198		mg/kg	12.11.2019 02:07		100
Total BTEX		111	0.198		mg/kg	12.11.2019 02:07		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	114	%	70-130	12.11.2019 02:07		
1,4-Difluorobenzene		540-36-3	97	%	70-130	12.11.2019 02:07		

## **Certificate of Analytical Results 645818**

## LT Environmental, Inc., Arvada, CO

PLU PC 28 Fed Battery

Sample Id: FS05 Lab Sample Id: 645818-003		Matrix: Soil Date Collected: 12.10.2019 13:10				Date Received:12.1 Sample Depth: 1 ft		:45
Analytical Method: Chloride by EPA	A 300					Prep Method: E30	)0P	
Tech: MAB								
Analyst: MAB		Date Pr	ep: 12.10	.2019 17:44		% Moisture: Basis: Wet		
Seq Number: 3110096						Dasis: we	t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2150	50.0		mg/kg	12.11.2019 00:11		5
Analytical Method: TPH by SW801	5 Mod					Pren Method: SW	8015P	
Analytical Method:TPH by SW8013Tech:DTHAnalyst:DTHSeq Number:3110188	5 Mod	Date Pro	ep: 12.10	.2019 17:00		Prep Method: SW % Moisture: Basis: Wet	8015P t Weight	
Tech: DTH Analyst: DTH	5 Mod Cas Number	Date Pro Result	ep: 12.10 RL	.2019 17:00	Units	% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3110188 Parameter			1	.2019 17:00		% Moisture: Basis: We	t Weight	Dil 5
Tech: DTH Analyst: DTH Seq Number: 3110188 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number	Result	RL	.2019 17:00	Units	% Moisture: Basis: Wer Analysis Date	t Weight	
Tech: DTH Analyst: DTH Seq Number: 3110188 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610	Result 3920	RL 250	.2019 17:00	Units mg/kg	% Moisture: Basis: Wet Analysis Date 12.11.2019 13:12	t Weight	5
Tech: DTH Analyst: DTH Seq Number: 3110188 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	Cas Number PHC610 C10C28DRO	Result 3920 9910 747 13800	RL 250 250	.2019 17:00	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.11.2019 13:12 12.11.2019 13:12	t Weight	5 5 5 5
Tech: DTH Analyst: DTH Seq Number: 3110188 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result 3920 9910 747	RL 250 250 250	.2019 17:00	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wei Analysis Date 12.11.2019 13:12 12.11.2019 13:12 12.11.2019 13:12	t Weight	5 5 5
Tech: DTH Analyst: DTH Seq Number: 3110188 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	<b>Cas Number</b> PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result 3920 9910 747 13800 14600	RL 250 250 250 250	.2019 17:00 Units	Units mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wer Analysis Date 12.11.2019 13:12 12.11.2019 13:12 12.11.2019 13:12 12.11.2019 13:12 12.11.2019 13:12 12.11.2019 13:12	t Weight	5 5 5 5
Tech: DTH Analyst: DTH Seq Number: 3110188 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	Cas Number PHC610 C10C28DR0 PHC62835 PHC628 PHC635	Result 3920 9910 747 13800 14600	RL 250 250 250 250 250 250		Units mg/kg mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 12.11.2019 13:12 12.11.2019 13:12 12.11.2019 13:12 12.11.2019 13:12 12.11.2019 13:12 12.11.2019 13:12 Mnalysis Date	t Weight Flag Flag	5 5 5 5

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# **Certificate of Analytical Results 645818**

# LT Environmental, Inc., Arvada, CO

PLU PC 28 Fed Battery

Sample Id:FS05Lab Sample Id:645818-003	Matrix:	Soil	Date Receive	d:12.10.2019 16:45
	Date Collecte	ed: 12.10.2019 13:10	Sample Deptl	h: 1 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3110075	Date Prep:	12.10.2019 19:43	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	2.89	0.199		mg/kg	12.11.2019 02:26		100
Toluene	108-88-3	57.2	0.994		mg/kg	12.11.2019 13:03	D	500
Ethylbenzene	100-41-4	19.0	0.199		mg/kg	12.11.2019 02:26		100
m,p-Xylenes	179601-23-1	104	1.99		mg/kg	12.11.2019 13:03	D	500
o-Xylene	95-47-6	28.8	0.199		mg/kg	12.11.2019 02:26		100
Total Xylenes	1330-20-7	133	0.199		mg/kg	12.11.2019 13:03		500
Total BTEX		212	0.199		mg/kg	12.11.2019 13:03		500
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	97	%	70-130	12.11.2019 02:26		
4-Bromofluorobenzene		460-00-4	118	%	70-130	12.11.2019 02:26		

## **Certificate of Analytical Results 645818**

## LT Environmental, Inc., Arvada, CO

PLU PC 28 Fed Battery

Sample Id: <b>FS03</b> Lab Sample Id: 645818-004		Matrix Date C	: Soil Collected: 12.1	0.2019 13:20	Date Received:12.10.2019 16:45 Sample Depth: 1 ft				
Analytical Method: Chloride by EPA	A 300					Prep Method: E300	)P		
Tech: MAB									
Analyst: MAB		Date P	rep: 12.1	0.2019 17:44		% Moisture: Basis: Wet	Weight		
Seq Number: 3110096						Dasis. Wet	weight		
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Chloride	16887-00-6	4440	49.7		mg/kg	12.11.2019 00:17		5	
Analytical Method: TPH by SW8015 Tech: DTH Analyst: DTH Seq Number: 3110188	5 Mod	Date P	rep: 12.1	0.2019 17:00		Prep Method: SW8 % Moisture: Basis: Wet	8015P Weight		
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Gasoline Range Hydrocarbons (GRO)	PHC610	1330	49.8		mg/kg	12.11.2019 08:46		1	
Diesel Range Organics (DRO)	C10C28DRO	2770	49.8		mg/kg	12.11.2019 08:46		1	
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	220	49.8		mg/kg	12.11.2019 08:46		1	
Total GRO-DRO	PHC628	4100	49.8		mg/kg	12.11.2019 08:46		1	
Total TPH	PHC635	4320	49.8		mg/kg	12.11.2019 08:46		1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane		111-85-3	123	%	70-135	12.11.2019 08:46			
o-Terphenyl		84-15-1	95	%	70-135	12.11.2019 08:46			

# **Certificate of Analytical Results 645818**

## LT Environmental, Inc., Arvada, CO

PLU PC 28 Fed Battery

Sample Id: <b>FS03</b>	Matrix:	Soil	Date Received:12.10.2019 16:45				
Lab Sample Id: 645818-004	Date Collecte	d: 12.10.2019 13:20	Sample Depth: 1 ft				
Analytical Method: BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3110075	Date Prep:	12.10.2019 19:43	Prep Method: % Moisture: Basis:	SW5030B Wet Weight			

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	1.57	0.200		mg/kg	12.11.2019 02:45		100
Toluene	108-88-3	20.2	0.200		mg/kg	12.11.2019 02:45		100
Ethylbenzene	100-41-4	6.94	0.200		mg/kg	12.11.2019 02:45		100
m,p-Xylenes	179601-23-1	30.1	0.400		mg/kg	12.11.2019 02:45		100
o-Xylene	95-47-6	11.9	0.200		mg/kg	12.11.2019 02:45		100
Total Xylenes	1330-20-7	42.0	0.200		mg/kg	12.11.2019 02:45		100
Total BTEX		70.7	0.200		mg/kg	12.11.2019 02:45		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	12.11.2019 02:45		
4-Bromofluorobenzene		460-00-4	118	%	70-130	12.11.2019 02:45		

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# Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
<b>RL</b> Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	le Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	for this compound.			

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 645818

# LT Environmental, Inc.

PLU PC 28 Fed Battery

<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>Chloride b</b> 3110096 7692149-1-	-	)0		Matrix: nple Id:	Solid 7692149-1	-BKS			ep Metho Date Pro D Sample	ep: 12.1	0P 0.2019 2149-1-BSD			
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag		
Chloride		<10.0	250	270	108	268	107	90-110	1	20	mg/kg	12.10.2019 22:52			
<b>Analytical Method:</b> Seq Number: Parent Sample Id:	3110096	3110096 645819-001 Parent Spike Result Amount				Matrix: Soil MS Sample Id: 645819-001 S					Prep Method: E300P Date Prep: 12.10.2019 MSD Sample Id: 645819-001 SD				
Parameter			-	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag		
Chloride		1060	201	1250	95	1220	80	90-110	2	20	mg/kg	12.10.2019 23:10	Х		
Analytical Method:TPH by SW8015 ModSeq Number:3110172MB Sample Id:7692181-1-BLK			od		Matrix: nple Id:	Solid 7692181-	-BKS			ep Metho Date Pre D Sample	ep: 12.1	8015P 0.2019 2181-1-BSD			
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag		
Gasoline Range Hydrocarb	ons (GRO)	<13.9	1000	1180	118	1050	105	70-135	12	35	mg/kg	12.11.2019 07:46			
Diesel Range Organics	(DRO)	17.5	1000	1270	127	1220	122	70-135	4	35	mg/kg	12.11.2019 07:46			
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date			
1-Chlorooctane		114			33		131			-135	%	12.11.2019 07:46 12.11.2019 07:46			
o Tombonyl									70	125	0/				
o-Terphenyl		116		1	29		131		70	-135	%	12.11.2019 07.40			

Analytical Method: TPH by SW8015 Mod Prep Method: SW8										8015P			
Seq Number:	3110188			]	Matrix:	Solid			Date Prep: 12.10.2019				
MB Sample Id:	7692151-1	-BLK		LCS San	nple Id:	7692151-	1-BKS	LCSD Sample Id: 7692151-1-BSD					
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<50.0	1000	1010	101	910	91	70-135	10	35	mg/kg	12.11.2019 07:46	
Diesel Range Organics	(DRO)	< 50.0	1000	895	90	866	87	70-135	3	35	mg/kg	12.11.2019 07:46	
Surrogate		MB %Rec	MB Flag			LCS Flag	LCSI %Re			mits	Units	Analysis Date	
1-Chlorooctane		79		10	02		95		70	-135	%	12.11.2019 07:46	
o-Terphenyl		82		9	94		94		70	-135	%	12.11.2019 07:46	

Analytical Method: TPH by	7 SW8015 Mod	Prep Method:	SW80	015P	
Seq Number: 311017	2 Matrix: Solid	Date Prep:	12.10	).2019	
	MB Sample Id: 769218	1-1-BLK			
Parameter	MB Result	τ	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO	<50.0	n	ng/kg	12.11.2019 07:26	
MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference	[D] = 100*(C-A) / B RPD = 200*   (C-E) / (C+E)   [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)	A = Parent Result	B = Spik	atrix Spike ke Added D/LCSD % Rec	

Released to Imaging: 4/8/2021 3:32:01 PM

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**QC Summary** 645818

Flag

## LT Environmental, Inc.

PLU PC 28 Fed Battery

Analytical Method:	TPH by SW8015 Mod			Prep Method: S	SW8015P
Seq Number:	3110188	Matrix:	Solid	Date Prep: 1	2.10.2019
		MB Sample Id:	7692151-1-BLK		
Parameter		MB Result		Unit	ts Analysis Date
Motor Oil Range Hydrocart	oons (MRO)	<50.0		mg/l	cg 12.11.2019 15:38

Analytical Method:					P	rep Meth	od: SW	8015P					
Seq Number:	3110172			Matrix: Soil				Date Prep: 12.10.2019					
Parent Sample Id:	645694-01	4		MS San	nple Id:	645694-01	4 S	MSD Sample Id: 645694-014 SD					
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<13.9	1000	966	97	1120	113	70-135	15	35	mg/kg	12.11.2019 14:53	
Diesel Range Organics	(DRO)	47.7	1000	1040	99	1220	118	70-135	16	35	mg/kg	12.11.2019 14:53	
Surrogate					1S Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1-Chlorooctane				1	22		137	**	70	-135	%	12.11.2019 14:53	
o-Terphenyl				1	14		140	**	70	-135	%	12.11.2019 14:53	

Analytical Method:						Pi	rep Meth	od: SW	8015P				
Seq Number:	3110188				Matrix:	Soil				Date Pr	ep: 12.1	0.2019	
Parent Sample Id:	645825-001	1		MS Sar	nple Id:	645825-00	01 S	MSD Sample Id: 645825-001 SD					
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<49.9	997	906	91	862	86	70-135	5	35	mg/kg	12.11.2019 08:06	
Diesel Range Organics	(DRO)	<49.9	997	839	84	755	76	70-135	11	35	mg/kg	12.11.2019 08:06	
Surrogate					1S Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1-Chlorooctane				ç	<del>)</del> 7		90		70	-135	%	12.11.2019 08:06	
o-Terphenyl				ç	96		85		70	-135	%	12.11.2019 08:06	

Analytical Method: Seq Number: MB Sample Id:	<b>BTEX by EPA 8021</b> 3110075 7692122-1-BLK	В	LCS San	Solid 7692122-1	1-BKS		Prep Method: SW5030B Date Prep: 12.10.2019 LCSD Sample Id: 7692122-1-BSD					
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0900	90	0.0860	86	70-130	5	35	mg/kg	12.10.2019 23:09	
Toluene	< 0.00200	0.100	0.0903	90	0.0806	81	70-130	11	35	mg/kg	12.10.2019 23:09	
Ethylbenzene	< 0.00200	0.100	0.0882	88	0.0716	72	71-129	21	35	mg/kg	12.10.2019 23:09	
m,p-Xylenes	< 0.00400	0.200	0.186	93	0.144	72	70-135	25	35	mg/kg	12.10.2019 23:09	
o-Xylene	< 0.00200	0.100	0.0945	95	0.0763	76	71-133	21	35	mg/kg	12.10.2019 23:09	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSE %Rec			imits	Units	Analysis Date	
1,4-Difluorobenzene	99		1	03		103		70	-130	%	12.10.2019 23:09	
4-Bromofluorobenzene	109		1	15		117		70	-130	%	12.10.2019 23:09	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100\*(C-A) / B $\begin{array}{l} \text{[D]} & = 100 \ (\text{C-E}) \ (\text{C-E}) \ | \\ \text{[D]} & = 100 \ (\text{C}) \ (\text{B}) \\ \text{Log Diff.} & = \text{Log(Sample Duplicate)} \ - \text{Log(Original Sample)} \end{array}$  LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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**Environment Testing** 

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## QC Summary 645818

## LT Environmental, Inc.

PLU PC 28 Fed Battery

Analytical Method:	BTEX by EPA 8021	В						Pi	rep Metho	od: SW	5030B	
Seq Number:	3110075		1	Matrix:	Soil			Date Prep: 12.10.2019				
Parent Sample Id:	645698-010		MS San	nple Id:	645698-01	10 S		MSD Sample Id: 645698-010 SD				
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0788	79	0.0808	81	70-130	3	35	mg/kg	12.10.2019 23:47	
Toluene	< 0.00200	0.100	0.0773	77	0.0745	75	70-130	4	35	mg/kg	12.10.2019 23:47	
Ethylbenzene	< 0.00200	0.100	0.0714	71	0.0763	77	71-129	7	35	mg/kg	12.10.2019 23:47	
m,p-Xylenes	< 0.00401	0.200	0.150	75	0.150	75	70-135	0	35	mg/kg	12.10.2019 23:47	
o-Xylene	< 0.00200	0.100	0.0769	77	0.0765	77	71-133	1	35	mg/kg	12.10.2019 23:47	
Surrogate			M %I	IS Rec	MS Flag	MSE %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			10	)4		102		70	-130	%	12.10.2019 23:47	
4-Bromofluorobenzene			12	20		115		70	-130	%	12.10.2019 23:47	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $\label{eq:c-A} \begin{array}{l} [D] = 100^{*}(C\text{-}A) \ / \ B \\ RPD = 200^{*} \ | \ (C\text{-}E) \ / \ (C\text{+}E) \ | \\ [D] = 100^{*} \ (C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

Relinquished by: (Signature)	CITCle MetriOa(S) and Notice: Signature of this document a of service. Xenco will be liable only of Xenco. A minimum charge of \$75.	Total 200.7 / 6010				fcoy	1054	1054	Lab Sample Identification	Sample Custody Seals:	Cooler Custorly Seals	SAMPLE RECEIPT	PO #	Sampler's Name:				L	Address: 5	Company Name:	Project Manager:
ure) Received by: (Signature)	CITCLE INSTITUTE OF STORE OF S				a liberti o		> 12.10.15 1050	12.10.19	Matrix Dat	Yes No N/A Total Containers:	Vec No	Temp Blank: Yes No	Quote #:	Spencer La nuen	C(L) ( La   Routine	28 Fed Battery	2/236.3849		North A	LT Environmental, Inc.	Dan Moir
(a)	P 6010: 8RCRA Sb order from client company to bility for any losses or expen- ch sample submitted to Xenc	13PPM Texas 11 AI			-		1. 1	1 1	Depth Numbe		ontaine	No No		v 1/	Code	Around	1: 5/0@ /1	City, State ZIP:	Address:	Company Name:	Bill to: (if different)
Date/Time Relinquished by: (Signature) $10 \int 10 \frac{10}{4}$	Cu Pb Intractors. h losses ar s will be er	I Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo		1	X		X	XXX	TP Bi Ch	It I TEX lorid	( EPA ( EP ( EP	80 9A 8 9A 1	115) 01) 300)	)		ANALYSIS REQUEST	tenu.com, annoir Oltenu.com	Carlsbod, NM 88220	3104	x70 2	Bill to: (if different)
e) Received by: (Signature)		Ni K Se Ag SiO2 Na Sr							Sample Comments	TAT starts the day received by the lab, if	NaOH: Na Zn Acetate+ NaOH: Zn	HCL: HL	HNO3: HN	None: NO	МеОН: Ме	QUEST Preservative Codes	Deliverables: EDD ADaPT Other:	Reporting:Level II Level III PST/UST TRRP Level IV	State of Project:	Program: UST/PST PRP Brownfields pr	XVVV



# **XENCO** Laboratories



### Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc. Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 12/10/2019 04:45:00 PM Temperature Measuring device used : T-NM-007 Work Order #: 645818 Comments Sample Receipt Checklist 1 #1 \*Temperature of cooler(s)? #2 \*Shipping container in good condition? Yes #3 \*Samples received on ice? Yes #4 \*Custody Seals intact on shipping container/ cooler? Yes #5 Custody Seals intact on sample bottles? Yes #6\*Custody Seals Signed and dated? Yes #7 \*Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinquished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes #13 Samples properly preserved? Yes #14 Sample container(s) intact? Yes #15 Sufficient sample amount for indicated test(s)? Yes ime? Yes #17 Subcontract of sample(s)? No #18 Water VOC samples have zero headspace? N/A

### \* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Elizabeth McClellan

Date: 12/10/2019

Checklist reviewed by: Jession, Veamer

Jessica Kramer

Date: 12/11/2019

#16 All samples received within hold ti
$   47 \mathbf{O}_{11}   _{7} =    1   _{7} +    1   _{7} +    1   _{7} +    1   _{7} +    1   _{7} +    1   _{7} +    1   _{7} +    1   _{7} +    1   _{7} +    1   _{7} +    1    1   _{7} +    1    1    1 +    1    1 +    1    1 +    $

# Certificate of Analysis Summary 650483

eurofins Environment Testing Xenco

**Project Id:** 012919281

Contact: Dan Moir

**Project Location:** 

WSP USA, Dallas, TX

### Project Name: PLU PC 28

 Date Received in Lab:
 Tue 01.28.2020 11:00

 Report Date:
 11.24.2020 12:09

 Project Manager:
 Jessica Kramer

	Lab Id:	650483-0	001	650483-0	02	650483-0	03	650483-0	004	650483-0	05	
Analysis Requested	Field Id:	FS02		FS01		FS05		FS03		FS04		
Analysis Kequesieu	Depth:	1- ft		1- ft		1- ft		1- ft		1- ft		
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	SOIL		
	Sampled:	01.27.2020	14:30	01.27.2020	14:45	01.27.2020	15:00	01.27.2020	15:15	01.27.2020	15:30	
BTEX by EPA 8021B	Extracted:	01.28.2020	13:00	01.28.2020	13:00	01.28.2020	13:00	01.28.2020	13:00	01.28.2020	13:00	
	Analyzed:	01.28.2020	16:40	01.28.2020	18:37	01.28.2020	18:57	01.28.2020	17:01	01.28.2020	17:21	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		< 0.0833	0.0833	< 0.0502	0.0502	0.956	0.200	0.0225	0.0208	0.0242	0.0208	
Toluene		< 0.0833	0.0833	1.31	0.201	20.9	0.200	1.89	0.0833	2.08	0.0833	
Ethylbenzene		0.113	0.0833	1.02	0.201	10.1	0.200	1.88	0.0833	2.06	0.0833	
m,p-Xylenes		0.375	0.167	5.94	0.402	37.9	0.400	3.28	0.167	10.1	0.167	
o-Xylene		0.620	0.0833	2.98	0.201	15.7	0.200	4.52	0.0833	4.71	0.0833	
Total Xylenes		0.995	0.0833	8.92	0.201	53.6	0.200	7.80	0.0833	14.8	0.0833	
Total BTEX		1.11	0.0833	11.3	0.0502	85.6	0.200	11.6	0.0208	19.0	0.0208	
Chloride by EPA 300	Extracted:	01.28.2020	13:00	01.28.2020	13:00	01.28.2020	13:00	01.28.2020	13:00	01.28.2020	13:00	
	Analyzed:	01.28.2020	14:46	01.28.2020	14:51	01.28.2020	15:07	01.28.2020	15:12	01.28.2020	15:17	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		2900	49.7	3880	50.2	1070	49.9	1240	49.6	1780	50.1	
TPH by SW8015 Mod	Extracted:	01.28.2020	12:00	01.28.2020	12:00	01.28.2020	12:00	01.28.2020	12:00	01.28.2020	12:00	
	Analyzed:	01.28.2020	13:55	01.28.2020	14:15	01.28.2020	17:09	01.28.2020	14:35	01.28.2020	14:55	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		140	50.1	367	50.3	2660	251	970	50.2	686	50.3	
Diesel Range Organics (DRO)		1290	50.1	2190	50.3	8150	251	4340	50.2	3700	50.3	
Motor Oil Range Hydrocarbons (MRO)		97.8	50.1	150	50.3	608	251	455	50.2	458	50.3	
Total GRO-DRO		1430	50.1	2560	50.3	10800	251	5310	50.2	4390	50.3	
Total TPH		1530	50.1	2710	50.3	11400	251	5770	50.2	4840	50.3	

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jession Vramer

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# Analytical Report 650483

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for

## WSP USA

**Project Manager: Dan Moir** 

PLU PC 28

012919281

### 11.24.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

11.24.2020 Project Manager: Dan Moir WSP USA 2777 N. Stemmons Freeway, Suite 1600 Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): 650483 **PLU PC 28** Project Address:

#### Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 650483. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 650483 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession beamer

Jessica Kramer **Project Manager** 

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

eurofins Environment Testing Xenco

# Sample Cross Reference 650483

## WSP USA, Dallas, TX

PLU PC 28

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS02	S	01.27.2020 14:30	1 ft	650483-001
FS01	S	01.27.2020 14:45	1 ft	650483-002
FS05	S	01.27.2020 15:00	1 ft	650483-003
FS03	S	01.27.2020 15:15	1 ft	650483-004
FS04	S	01.27.2020 15:30	1 ft	650483-005

**CASE NARRATIVE** 

eurofins Environment Testing Xenco

Client Name: WSP USA Project Name: PLU PC 28

 Project ID:
 012919281

 Work Order Number(s):
 650483

Report Date: *11.24.2020* Date Received: *01.28.2020* 

Sample receipt non conformances and comments:

V1.001 REVISION - CORRECTED CLIENT AND SAMPLE ID V1.002 REVISION - Corrected sample IDs V1.003 REVISION - CORRECTED SAMPLE IDS

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3114753 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3114766 TPH by SW8015 Mod

Surrogate 1-Chlorooctane recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 650483-003.

# **Certificate of Analytical Results 650483**

### WSP USA, Dallas, TX PLU PC 28

Sample Id:FS02Lab Sample Id:650483-001		Matrix: Date Co	Soil ollected: 01.27	.2020 14:30		Date Received:01.2 Sample Depth: 1 ft	8.2020 11:	00
Analytical Method: Chloride by EP.	A 300					Prep Method: E300	OP	
Tech: MAB								
Analyst: MAB		Date Pr	ep: 01.28	.2020 13:00		% Moisture: Basis: Wet	XX7 · 1 /	
Seq Number: 3114737			-			Basis. wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2900	49.7		mg/kg	01.28.2020 14:46		5
Analytical Method: TPH by SW801	5 Mod					Prep Method: SW8	3015P	
Analytical Method:TPH by SW801Tech:DTHAnalyst:DTHSeq Number:3114766	5 Mod	Date Pr	ер: 01.28	.2020 12:00		% Moisture:	3015P Weight	
Tech: DTH Analyst: DTH	5 Mod Cas Number	Date Pr Result	ep: 01.28 <b>RL</b>	.2020 12:00		% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3114766				.2020 12:00		% Moisture: Basis: Wet	Weight	<b>Dil</b>
Tech: DTH Analyst: DTH Seq Number: 3114766 Parameter	Cas Number	Result	RL	.2020 12:00	Units	% Moisture: Basis: Wet Analysis Date	Weight	
Tech: DTH Analyst: DTH Seq Number: 3114766 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result 140	RL 50.1	.2020 12:00	Units mg/kg	% Moisture: Basis: Wet Analysis Date 01.28.2020 13:55	Weight	1
Tech: DTH Analyst: DTH Seq Number: 3114766 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result 140 1290	RL 50.1 50.1	.2020 12:00	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 01.28.2020 13:55 01.28.2020 13:55	Weight	1 1
Tech: DTH Analyst: DTH Seq Number: 3114766 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result 140 1290 97.8	RL 50.1 50.1 50.1	.2020 12:00	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 01.28.2020 13:55 01.28.2020 13:55 01.28.2020 13:55	Weight	1 1 1
Tech: DTH Analyst: DTH Seq Number: 3114766 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	Cas Number PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result 140 1290 97.8 1430	RL 50.1 50.1 50.1 50.1 50.1	.2020 12:00	Units mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Malysis Date 01.28.2020 13:55 01.28.2020 13:55 01.28.2020 13:55 01.28.2020 13:55 01.28.2020 13:55 01.28.2020 13:55	Weight	1 1 1 1
Tech: DTH Analyst: DTH Seq Number: 3114766 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result 140 1290 97.8 1430 1530	RL 50.1 50.1 50.1 50.1 50.1 50.1		Units mg/kg mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Maalysis Date 01.28.2020 13:55 01.28.2020 13:55 01.28.2020 13:55 01.28.2020 13:55 01.28.2020 13:55 01.28.2020 13:55 01.28.2020 13:55	Weight Flag Flag	1 1 1 1

# **Certificate of Analytical Results 650483**

### WSP USA, Dallas, TX PLU PC 28

Sample Id: Lab Sample Id	<b>FS02</b> d: 650483-001		Matrix: Date Collected	Soil d: 01.27.2020 14:30	Date Received:01.28.2020 11:0 Sample Depth: 1 ft	0
Analytical Me	ethod: BTEX by EPA 802	21B			Prep Method: SW5030B	
Tech: Analyst:	MAB MAB		Date Prep:	01.28.2020 13:00	% Moisture:	
Seq Number:			Date Flep.	01.26.2020 13.00	Basis: Wet Weight	
Donomotor		Cog Number	Docult DI			<b>D</b> ''

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0833	3 0.0833		mg/kg	01.28.2020 16:40	U	1
Toluene	108-88-3	< 0.0833	3 0.0833		mg/kg	01.28.2020 16:40	U	1
Ethylbenzene	100-41-4	0.113	0.0833		mg/kg	01.28.2020 16:40		1
m,p-Xylenes	179601-23-1	0.375	0.167		mg/kg	01.28.2020 16:40		1
o-Xylene	95-47-6	0.620	0.0833		mg/kg	01.28.2020 16:40		1
Total Xylenes	1330-20-7	0.995	0.0833		mg/kg	01.28.2020 16:40		1
Total BTEX		1.11	0.0833		mg/kg	01.28.2020 16:40		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	97	%	70-130	01.28.2020 16:40		
1,4-Difluorobenzene		540-36-3	99	%	70-130	01.28.2020 16:40		

# **Certificate of Analytical Results 650483**

### WSP USA, Dallas, TX PLU PC 28

Sample Id: FS01		Matrix	: Soil			Date Received:01.2	28.2020 11	:00
Lab Sample Id: 650483-002		Date C	ollected: 01.27	.2020 14:45		Sample Depth: 1 ft		
Analytical Method: Chloride by EPA	A 300					Prep Method: E30	OP	
Tech: MAB								
Analyst: MAB		Date P	rep: 01.28	.2020 13:00		% Moisture:	XX7 * 1 /	
Seq Number: 3114737						Basis: Wet	t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3880	50.2		mg/kg	01.28.2020 14:51		5
Analytical Method:TPH by SW801Tech:DTHAnalyst:DTHSeq Number:3114766	5 Mod	Date P	rep: 01.28	.2020 12:00		Prep Method: SW % Moisture: Basis: Wet	8015P t Weight	
Tech:DTHAnalyst:DTHSeq Number:3114766	5 Mod Cas Number		rep: 01.28 <b>RL</b>	.2020 12:00	Units	% Moisture:		Dil
Tech: DTH Analyst: DTH Seq Number: 3114766 Parameter				.2020 12:00	Units mg/kg	% Moisture: Basis: We	t Weight	<b>Dil</b>
Tech: DTH Analyst: DTH	Cas Number	Result	RL	.2020 12:00		% Moisture: Basis: Wer Analysis Date	t Weight	
Tech: DTH Analyst: DTH Seq Number: 3114766 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	· Result 367	RL 50.3	.2020 12:00	mg/kg	% Moisture: Basis: Wet Analysis Date 01.28.2020 14:15	t Weight	1
Tech: DTH Analyst: DTH Seq Number: 3114766 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result 367 2190	RL 50.3 50.3	.2020 12:00	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 01.28.2020 14:15 01.28.2020 14:15	t Weight	1 1
Tech: DTH Analyst: DTH Seq Number: 3114766 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	• Result 367 2190 150	<b>RL</b> 50.3 50.3 50.3	.2020 12:00	mg/kg mg/kg mg/kg	% Moisture: Basis: Wei Analysis Date 01.28.2020 14:15 01.28.2020 14:15 01.28.2020 14:15	t Weight	1 1 1
Tech: DTH Analyst: DTH Seq Number: 3114766 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	Cas Number PHC610 C10C28DRO PHCG2835 PHC628 PHC635	• Result 367 2190 150 2560	<b>RL</b> 50.3 50.3 50.3 50.3	.2020 12:00 Units	mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wer Analysis Date 01.28.2020 14:15 01.28.2020 14:15 01.28.2020 14:15 01.28.2020 14:15 01.28.2020 14:15 01.28.2020 14:15	t Weight	1 1 1 1
Tech: DTH Analyst: DTH Seq Number: 3114766 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	<b>Cas Number</b> PHC610 C10C28DRO PHC62835 PHC628 PHC635	• Result 367 2190 150 2560 2710	<b>RL</b> 50.3 50.3 50.3 50.3 50.3 50.3		mg/kg mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 01.28.2020 14:15 01.28.2020 14:15 01.28.2020 14:15 01.28.2020 14:15 01.28.2020 14:15 01.28.2020 14:15 01.28.2020 14:15	t Weight Flag Flag	1 1 1 1
# **Certificate of Analytical Results 650483**

## WSP USA, Dallas, TX PLU PC 28

Sample Id: <b>FS0</b> Lab Sample Id: 6504		Matrix: Date Collected	Soil : 01.27.2020 14:45	Date Received Sample Depth	d:01.28.2020 11 n: 1 ft	:00
•	BTEX by EPA 8021B			Prep Method:	SW5030B	
Tech: MAE Analyst: MAE		Date Prep:	01.28.2020 13:00	% Moisture: Basis:	X7 / X7 * 1 /	
Seq Number: 3114	753			Dasis:	Wet Weight	
Parameter	Cas Number	Result RL	Un	uits Analysis D	ate Flag	Dil

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0502	0.0502		mg/kg	01.28.2020 18:37	U	100
Toluene	108-88-3	1.31	0.201		mg/kg	01.28.2020 18:37		100
Ethylbenzene	100-41-4	1.02	0.201		mg/kg	01.28.2020 18:37		100
m,p-Xylenes	179601-23-1	5.94	0.402		mg/kg	01.28.2020 18:37		100
o-Xylene	95-47-6	2.98	0.201		mg/kg	01.28.2020 18:37		100
Total Xylenes	1330-20-7	8.92	0.201		mg/kg	01.28.2020 18:37		100
Total BTEX		11.3	0.0502		mg/kg	01.28.2020 18:37		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	100	%	70-130	01.28.2020 18:37		
1,4-Difluorobenzene		540-36-3	101	%	70-130	01.28.2020 18:37		

# **Certificate of Analytical Results 650483**

## WSP USA, Dallas, TX PLU PC 28

Sample Id: <b>FS05</b> Lab Sample Id: 650483-003		Matrix: Date Co	Soil ollected: 01.27	2.2020 15:00		Date Received:01.2 Sample Depth: 1 ft	28.2020 11:	00
Analytical Method: Chloride by EPA	A 300					Prep Method: E30	0P	
Tech: MAB								
Analyst: MAB		Date Pr	ep: 01.28	3.2020 13:00		% Moisture:	XX7 · 1 /	
Seq Number: 3114737						Basis: Wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1070	49.9		mg/kg	01.28.2020 15:07		5
Analytical Method: TPH by SW801. Tech: DTH Analyst: DTH	5 Mod	Date Pr	om. 01.28			Prep Method: SW	8015P	
Seq Number: 3114766			ep: 01.28	3.2020 12:00			Weight	
Parameter	Cas Number	Result	RL	3.2020 12:00	Units		Weight Flag	Dil
1	Cas Number PHC610	Result 2660		.2020 12:00	Units mg/kg	Basis: Wet	C	Dil 5
Parameter			RL	.2020 12:00		Basis: Wet	C	
Parameter Gasoline Range Hydrocarbons (GRO)	PHC610	2660	RL 251	.2020 12:00	mg/kg	Basis: Wet Analysis Date 01.28.2020 17:09	C	5
Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	PHC610 C10C28DRO	2660 8150	<b>RL</b> 251 251	.2020 12:00	mg/kg mg/kg	Basis: Wet Analysis Date 01.28.2020 17:09 01.28.2020 17:09	C	5 5
Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	PHC610 C10C28DRO PHCG2835	2660 8150 608	<b>RL</b> 251 251 251	.2020 12:00	mg/kg mg/kg mg/kg	Basis: Wet Analysis Date 01.28.2020 17:09 01.28.2020 17:09 01.28.2020 17:09	C	5 5 5
Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	PHC610 C10C28DRO PHCG2835 PHC628 PHC635	2660 8150 608 10800 11400	<b>RL</b> 251 251 251 251 251	Units	mg/kg mg/kg mg/kg mg/kg	Basis: Wet Analysis Date 01.28.2020 17:09 01.28.2020 17:09 01.28.2020 17:09 01.28.2020 17:09 01.28.2020 17:09	C	5 5 5 5
Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	PHC610 C10C28DRO PHCG2835 PHC628 PHC635	2660 8150 608 10800 11400	RL 251 251 251 251 251 251		mg/kg mg/kg mg/kg mg/kg mg/kg	Basis: Wet Analysis Date 01.28.2020 17:09 01.28.2020 17:09 01.28.2020 17:09 01.28.2020 17:09 01.28.2020 17:09 01.28.2020 17:09 Mnalysis Date	Flag	5 5 5 5

# **Certificate of Analytical Results 650483**

## WSP USA, Dallas, TX PLU PC 28

Sample Id: Lab Sample Id:	<b>FS05</b> 650483-003		Matrix: Date Collected	Soil l: 01.27.2020 15:00		Date Received Sample Depth		.2020 11:0	00
5	od: BTEX by EPA 802	1B				Prep Method:	SW50	)30B	
	MAB MAB		Date Prep:	01.28.2020 13:00		% Moisture:			
Seq Number: 3			Date Prep.	01.28.2020 13.00		Basis:	Wet V	Weight	
Parameter		Cas Number	Result RI		Units	Analysis Da	ate	Flag	Dil

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.956	0.200		mg/kg	01.28.2020 18:57		100
Toluene	108-88-3	20.9	0.200		mg/kg	01.28.2020 18:57		100
Ethylbenzene	100-41-4	10.1	0.200		mg/kg	01.28.2020 18:57		100
m,p-Xylenes	179601-23-1	37.9	0.400		mg/kg	01.28.2020 18:57		100
o-Xylene	95-47-6	15.7	0.200		mg/kg	01.28.2020 18:57		100
Total Xylenes	1330-20-7	53.6	0.200		mg/kg	01.28.2020 18:57		100
Total BTEX		85.6	0.200		mg/kg	01.28.2020 18:57		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	104	%	70-130	01.28.2020 18:57		
1,4-Difluorobenzene		540-36-3	95	%	70-130	01.28.2020 18:57		

# **Certificate of Analytical Results 650483**

## WSP USA, Dallas, TX PLU PC 28

Sample Id: FS03 Lab Sample Id: 650483-004		Matrix: Date Co	Soil llected: 01.27	7.2020 15:15		Date Received:01.2 Sample Depth: 1 ft	8.2020 11:	00
Analytical Method: Chloride by EPA	A 300					Prep Method: E300	)P	
Tech: MAB								
Analyst: MAB		Date Pre	ep: 01.28	8.2020 13:00		% Moisture: Basis: Wet	Weislet	
Seq Number: 3114737			-			basis. wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1240	49.6		mg/kg	01.28.2020 15:12		5
Analytical Method:TPH by SW801.Tech:DTHAnalyst:DTHSeq Number:3114766	5 Mod	Date Pre	ep: 01.28	3.2020 12:00		Prep Method: SW8 % Moisture: Basis: Wet	8015P Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	970	50.2		mg/kg	01.28.2020 14:35		1
Diesel Range Organics (DRO)	C10C28DRO	4340	50.2		mg/kg	01.28.2020 14:35		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	455	50.2		mg/kg	01.28.2020 14:35		
								1
Total GRO-DRO	PHC628	5310	50.2		mg/kg	01.28.2020 14:35		1 1
Total GRO-DRO Total TPH	PHC628 PHC635	5310 5770	50.2 50.2		mg/kg mg/kg	01.28.2020 14:35 01.28.2020 14:35		
	PHC635	5770		Units		01.28.2020 14:35	Flag	1
Total TPH	PHC635	5770	50.2	Units %	mg/kg	01.28.2020 14:35	Flag	1

# **Certificate of Analytical Results 650483**

## WSP USA, Dallas, TX PLU PC 28

Sample Id: <b>FS03</b> Lab Sample Id: 650483-004		Matrix: Date Collecte	Soil d: 01.27.2020 15:15	Date Received:01.28.2020 11:00 Sample Depth: 1 ft
Analytical Method: BTEX by	EPA 8021B			Prep Method: SW5030B
Tech: MAB Analyst: MAB		Date Prep:	01.28.2020 13:00	% Moisture:
Seq Number: 3114753		Ĩ		Basis: Wet Weight
Dovometor	Cog Number	Dogult DI	*1 •	

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0225	0.0208		mg/kg	01.28.2020 17:01		1
Toluene	108-88-3	1.89	0.0833		mg/kg	01.28.2020 17:01		1
Ethylbenzene	100-41-4	1.88	0.0833		mg/kg	01.28.2020 17:01		1
m,p-Xylenes	179601-23-1	3.28	0.167		mg/kg	01.28.2020 17:01		1
o-Xylene	95-47-6	4.52	0.0833		mg/kg	01.28.2020 17:01		1
Total Xylenes	1330-20-7	7.80	0.0833		mg/kg	01.28.2020 17:01		1
Total BTEX		11.6	0.0208		mg/kg	01.28.2020 17:01		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	121	%	70-130	01.28.2020 17:01		
1,4-Difluorobenzene		540-36-3	98	%	70-130	01.28.2020 17:01		

# **Certificate of Analytical Results 650483**

## WSP USA, Dallas, TX PLU PC 28

Sample Id: <b>FS04</b> Lab Sample Id: 650483-005		Matrix: Date C	Soil ollected: 01.27	2.2020 15:30		Date Received:01.23 Sample Depth: 1 ft	8.2020 11:	00
Analytical Method: Chloride by EPA	A 300					Prep Method: E300	)P	
Tech: MAB								
Analyst: MAB		Date Pr	rep: 01.28	.2020 13:00		% Moisture: Basis: Wet	Weisle	
Seq Number: 3114737						Basis. wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1780	50.1		mg/kg	01.28.2020 15:17		5
Analytical Method: TPH by SW801	5 Mod					Prep Method: SW8	3015P	
Analytical Method:TPH by SW801Tech:DTHAnalyst:DTHSeq Number:3114766	5 Mod	Date Pr	ep: 01.28	.2020 12:00		% Moisture:	8015P Weight	
Tech: DTH Analyst: DTH	5 Mod Cas Number	Date Pr <b>Result</b>	rep: 01.28 <b>RL</b>	.2020 12:00	Units	% Moisture:		Dil
Tech:DTHAnalyst:DTHSeq Number:3114766			-	2.2020 12:00	Units mg/kg	% Moisture: Basis: Wet	Weight	<b>Dil</b>
Tech: DTH Analyst: DTH Seq Number: 3114766 Parameter	Cas Number	Result	RL	3.2020 12:00		% Moisture: Basis: Wet Analysis Date	Weight	
Tech:DTHAnalyst:DTHSeq Number:3114766ParameterGasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result 686	RL 50.3	3.2020 12:00	mg/kg	% Moisture: Basis: Wet Analysis Date 01.28.2020 14:55	Weight	1
Tech:DTHAnalyst:DTHSeq Number:3114766ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result 686 3700	RL 50.3 50.3	3.2020 12:00	mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 01.28.2020 14:55 01.28.2020 14:55	Weight	1
Tech:DTHAnalyst:DTHSeq Number:3114766ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	Result 686 3700 458	RL 50.3 50.3 50.3	3.2020 12:00	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 01.28.2020 14:55 01.28.2020 14:55 01.28.2020 14:55	Weight	1 1 1
Tech:DTHAnalyst:DTHSeq Number:3114766ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total GRO-DRO	<b>Cas Number</b> PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result 686 3700 458 4390	RL 50.3 50.3 50.3 50.3 50.3	0.2020 12:00 Units	mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 01.28.2020 14:55 01.28.2020 14:55 01.28.2020 14:55 01.28.2020 14:55 01.28.2020 14:55	Weight	1 1 1 1
Tech:DTHAnalyst:DTHSeq Number:3114766ParameterGasoline Range Hydrocarbons (GRO)Diesel Range Organics (DRO)Motor Oil Range Hydrocarbons (MRO)Total GRO-DROTotal TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result 686 3700 458 4390 4840	<b>RL</b> 50.3 50.3 50.3 50.3 50.3 50.3		mg/kg mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Maalysis Date 01.28.2020 14:55 01.28.2020 14:55 01.28.2020 14:55 01.28.2020 14:55 01.28.2020 14:55 01.28.2020 14:55 01.28.2020 14:55	Weight Flag Flag	1 1 1 1

# **Certificate of Analytical Results 650483**

## WSP USA, Dallas, TX PLU PC 28

Sample Id: <b>FS04</b> Lab Sample Id: 650483-005		Matrix: Date Collecte	Soil d: 01.27.2020 15:30		eceived:01.28.2 Depth: 1 ft	2020 11:00	
Analytical Method: BTEX by EP	A 8021B			Prep Me	ethod: SW503	30B	
Tech: MAB Analyst: MAB		Date Prep:	01.28.2020 13:00	% Mois			
Seq Number: 3114753				Basis:	Wet W	eight	
Parameter	Cas Number	Result RI	. 1	Inits Anal	lysis Date	Flag Di	a

Parameter	Cas Number	r Kesult	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0242	0.0208		mg/kg	01.28.2020 17:21		1
Toluene	108-88-3	2.08	0.0833		mg/kg	01.28.2020 17:21		1
Ethylbenzene	100-41-4	2.06	0.0833		mg/kg	01.28.2020 17:21		1
m,p-Xylenes	179601-23-1	10.1	0.167		mg/kg	01.28.2020 17:21		1
o-Xylene	95-47-6	4.71	0.0833		mg/kg	01.28.2020 17:21		1
Total Xylenes	1330-20-7	14.8	0.0833		mg/kg	01.28.2020 17:21		1
Total BTEX		19.0	0.0208		mg/kg	01.28.2020 17:21		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	01.28.2020 17:21		
4-Bromofluorobenzene		460-00-4	120	%	70-130	01.28.2020 17:21		

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# **Flagging Criteria**

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
<b>RL</b> Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	le Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	for this compound.			

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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## QC Summary 650483

## WSP USA

### PLU PC 28

<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>Chloride by EPA 3</b> 3114737 7695325-1-BLK	300	LCS Sar	Matrix: nple Id:	Solid 7695325-1	I-BKS			ep Meth Date Pr D Sample	ep: 01.2	0P 28.2020 5325-1-BSD		
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
Chloride	<10.0	250	249	100	249	100	90-110	0	20	mg/kg	01.28.2020 13:01		
<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>Chloride by EPA 3</b> 3114737 650282-006	300		Matrix: nple Id:		)6 S			rep Metho Date Pr D Samplo	ep: 01.2	0P 28.2020 282-006 SD		
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
Chloride	19.6	200	215	98	209	95	90-110	3	20	mg/kg	01.28.2020 13:16		
<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>Chloride by EPA 3</b> 3114737 650481-001	<b>300</b>		Matrix: nple Id:		)1 S		Prep Method: E300P Date Prep: 01.28.2020 MSD Sample Id: 650481-001 SD					
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
Chloride	1.96	198	187	93	182	91	90-110	3	20	mg/kg	01.28.2020 14:24		

Analytical Method: Seq Number: MB Sample Id:	<b>TPH by S</b> 3114766 7695384-1		od	LCS Sar	Matrix: nple Id:	Solid 7695384-	I-BKS			rep Methe Date Pr D Sample	ep: 01.2	8015P 28.2020 5384-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	oons (GRO)	< 50.0	1000	1230	123	1240	124	70-135	1	35	mg/kg	01.28.2020 10:37	
Diesel Range Organics	(DRO)	<50.0	1000	1190	119	1190	119	70-135	0	35	mg/kg	01.28.2020 10:37	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		117		1	16		118		70	-135	%	01.28.2020 10:37	
o-Terphenyl		117		1	10		105		70	-135	%	01.28.2020 10:37	

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8	3015P	
Seq Number:	3114766	Matrix:	Solid	Date Prep:	01.2	8.2020	
		MB Sample Id:	7695384-1-BLK				
Parameter		MB Result		U	J <b>nits</b>	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)	<50.0		m	ng/kg	01.28.2020 12:34	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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## QC Summary 650483

## WSP USA

## PLU PC 28

1 1	<b>TPH by SV</b> 3114766 650479-00	od		Matrix: nple Id:	Soil 650479-00	)1 S			ep Meth Date Pr D Sample	ep: 01.2	8015P 28.2020 479-001 SD		
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbon	ns (GRO)	<50.1	1000	1060	106	1030	103	70-135	3	35	mg/kg	01.28.2020 12:54	
Diesel Range Organics (E	DRO)	< 50.1	1000	1050	105	1040	104	70-135	1	35	mg/kg	01.28.2020 12:54	
Surrogate					IS Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane				1	28		127		70	-135	%	01.28.2020 12:54	
o-Terphenyl				1	24		121		70	-135	%	01.28.2020 12:54	

<b>Analytical Method:</b>	BTEX by EPA 8021	B						P	rep Metho	od: SW	5030B	
Seq Number:	3114753		]	Matrix:	Solid				Date Pr	ep: 01.2	28.2020	
MB Sample Id:	7695397-1-BLK		LCS San	nple Id:	7695397-1	I-BKS		LCS	D Sample	e Id: 769	5397-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0928	93	0.0917	92	70-130	1	35	mg/kg	01.28.2020 12:56	
Toluene	< 0.00200	0.100	0.0906	91	0.0886	89	70-130	2	35	mg/kg	01.28.2020 12:56	
Ethylbenzene	< 0.00200	0.100	0.0859	86	0.0845	85	71-129	2	35	mg/kg	01.28.2020 12:56	
m,p-Xylenes	< 0.00400	0.200	0.177	89	0.174	87	70-135	2	35	mg/kg	01.28.2020 12:56	
o-Xylene	< 0.00200	0.100	0.0888	89	0.0870	87	71-133	2	35	mg/kg	01.28.2020 12:56	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSE %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene	102		10	02		102		70	-130	%	01.28.2020 12:56	
4-Bromofluorobenzene	95		9	6		95		70	-130	%	01.28.2020 12:56	

Analytical Method:	BTEX by EPA 8021	B						Р	rep Metho	od: SW	5030B	
Seq Number:	3114753			Matrix:	Soil				Date Pr	ep: 01.2	28.2020	
Parent Sample Id:	650479-001		MS Sar	nple Id:	650479-00	01 S		MS	D Sample	e Id: 650	479-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.111	111	0.121	122	70-130	9	35	mg/kg	01.28.2020 13:37	
Toluene	< 0.00200	0.100	0.108	108	0.117	118	70-130	8	35	mg/kg	01.28.2020 13:37	
Ethylbenzene	< 0.00200	0.100	0.104	104	0.112	113	71-129	7	35	mg/kg	01.28.2020 13:37	
m,p-Xylenes	< 0.00400	0.200	0.212	106	0.230	116	70-135	8	35	mg/kg	01.28.2020 13:37	
o-Xylene	< 0.00200	0.100	0.105	105	0.114	115	71-133	8	35	mg/kg	01.28.2020 13:37	
Surrogate				1S Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	02		104		70	-130	%	01.28.2020 13:37	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

4-Bromofluorobenzene

 $\label{eq:c-A} \begin{array}{l} [D] = 100^{*}(C\text{-}A) \ / \ B \\ RPD = 200^{*} \ | \ (C\text{-}E) \ / \ (C\text{+}E) \ | \\ [D] = 100^{*} \ (C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

97

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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01.28.2020 13:37

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100

70-130

%

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	(		: (Signature)	document and relinquishm liable only for the cost of a arge of \$75.00 will be appli	Circle Method(s) and Metal(s) to be analyzed						(	2	2	5	ک	2	tification Matrix	Yes No	Yes m	Xes 1	A		Spen		012919281	PLU PC 28	(432) 236-3849	Midland, TX 79705	3300 North A Street	LT Environmental, Inc.,	Dan Moir	
	1		Received	ent of samples cons samples and shall n ed to each project a	e analyzed								1-27.20	1.27.20	1.27.20	1.27.00	trix Date Sampled	N/A Tota			)	ank: Yes No	Spencer Lo							nc., Permian office		
	7		Received by: (Signature)	stitutes a valid pur ot assume any res ind a charge of \$5	TCLP / SPL	BRCRA 13PPM					0001	1692	1515	1500	1445	1430	Time Sampled	Total Containers:	Correction Factor:	1	Thermometer ID	Wet Ice:	Due Date:	Rush:	Routine	Turr	Email: s		A		m	Houston,TX Midland,T NM (575-392-75
			re)	chase order from o ponsibility for any for each sample si	TCLP / SPLP 6010: BRCRA	Texas 11	-	-	1 in w	>		, ,	1 1	1	1	-	Depth		1.01			Yes No	ate:	24#	e	Turn Around	Email: slo@ltenv.com, dmoir@ltenv.com	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	( (281) 240-4200 X (432-704-5440 50) Phoenix,AZ
		02 82/1	Date	losses or ex ubmitted to )	RA Sb	AI Sb A						×	*	×	*	X	Numl				tain	ers					dmoir@lte	Carlst	3104		Kyle Littrell	Dallas,TX (214) 902-0300 San Antonio,7 ) EL Paso,TX (915)585-3443 Lubbock,T (480-355-0900) Atlanta,GA (770-449-880
		11:00	Date/Time	penses incu Kenco, but r	Sb As Ba Be	As Ba Be						X	×	X	×	×	BTEX	and the second s	_	-							nv.com	Carlsbad, NM 88220	3104 East Green Street	XTO Energy	ittrell	(214) 902-0 TX (915)58 900) Atlant
6	4	2	R	urred by the tot analyzed	e Cd C	B Cd						X	¥	×	×	X	Chior	iue (		4 30	0.0)		Ť					8220	n Street			)300 San, 5-3443 Lu a,GA (770
			Relinquished by: (Signature)	otice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Aerico, its anniaces and succontraverses in current of the control 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 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 \$7.00 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.	Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U	Ca Cr Co Cu Fe																				ANALYSIS REQUEST						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)
			ature)	e to circum	o Ni Se	Pb Mg N														1						JEST		Repu	Dopor	Progr		4
			Rece	stances beyond previously negot	Ag TI U	Mg Mn Mo Ni																						Reputility.cevel ii	State of Froject	Program: UST/PST		
			Received by: (Signature)	the control liated.	conditions	K Se Ag															20											www.xenco.com
			Signature		163	SiC												-		_											Work Order Comments	so.com
			9)		1 / 245.1	SiO2 Na Sr TI											Sam		lab, if	TAT starts						Wor		Ľ		elds Kr	mments	Page_
Revised Date 051418 Rev. 2018.1			Date/Time		1631 / 245.1 / 7470 / 7471 : Hg	Sn U V Zn	/	V									Sample Comments		lab, if received by 4:30pm	the day receiied by the						Work Urder Notes		7		KC Duberung		1 of 1

Released to Imaging: 4/8/2021 3:32:01 PM

Final 1.003

## **XENCO** Laboratories

## Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 01.28.2020 11.00.00 AM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 650483	Temperature Measuring device used : T-NM-007
Sample Recei	ot Checklist Comments
#1 *Temperature of cooler(s)?	.4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6*Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	Νο
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	Νο
#18 Water VOC samples have zero headspace?	N/A

### \* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Elizabeth McClellan
Checklist reviewed by: Jessica Veamer

Date: 01.28.2020

Jessica Kramer

Date: 01.29.2020

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### Xenco

Project Id: 012919281 Dan Moir

**Contact:** 

**Project Location:** 

# Certificate of Analysis Summary 657559

## WSP USA, Dallas, TX

### Project Name: PLU PC 28 Battery

Date Received in Lab: Wed 04.01.2020 10:10 **Report Date:** 11.19.2020 14:41 Project Manager: Jessica Kramer 657559-004 657559-005 657550 006

	Lab Id:	657559-0	001	657559-0	002	657559-0	003	657559-	004	657559-0	005	657559-0	06
Analysis Requested	Field Id:	FS01A		FS02A	<b>\</b>	FS03A		FS04A		SW01		SW02	
Analysis Kequesieu	Depth:	1.5-2 ft	t	1.5-2 f	ť	1.5-3 f	ìt	3-6 ft		0-2 ft		0-6 ft	
	Matrix:	SOIL		SOIL		SOIL	,	SOIL		SOIL		SOIL	
	Sampled:	03.31.2020	09:20	03.31.2020	09:40	03.31.2020	10:00	03.31.2020	10:10	03.31.2020	12:10	03.31.2020	12:30
BTEX by EPA 8021B	Extracted:	04.04.2020	16:46	04.04.2020	16:46	04.04.2020	17:49	04.04.2020	17:49	04.04.2020	17:49	04.04.2020	17:49
	Analyzed:	04.05.2020	11:32	04.05.2020	11:52	04.05.2020	03:42	04.05.2020	05:04	04.05.2020	05:24	04.05.2020	05:45
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00201	0.00201	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	<0.00200	0.00200	< 0.00202	0.00202
Toluene		< 0.00201	0.00201	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	<0.00200	0.00200	< 0.00202	0.00202
Ethylbenzene		< 0.00201	0.00201	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	<0.00200	0.00200	< 0.00202	0.00202
m,p-Xylenes		< 0.00402	0.00402	0.00426	0.00403	< 0.00400	0.00400	< 0.00404	0.00404	< 0.00400	0.00400	< 0.00403	0.00403
o-Xylene		< 0.00201	0.00201	0.0155	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202
Total Xylenes		< 0.00201	0.00201	0.0198	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202
Total BTEX		< 0.00201	0.00201	0.0198	0.00202	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200	< 0.00202	0.00202
Chloride by EPA 300	Extracted:	04.05.2020	16:19	04.05.2020	16:19	04.05.2020	16:19	04.05.2020	16:19	04.05.2020	16:19	04.05.2020	16:19
	Analyzed:	04.06.2020	20:26	04.06.2020	20:32	04.06.2020	20:37	04.06.2020	20:43	04.06.2020	20:59	04.06.2020	21:05
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		5640	49.5	4900	49.8	50.8	9.88	69.0	9.96	136	10.0	52.0	9.92
TPH by SW8015 Mod	Extracted:	04.03.2020	15:00	04.03.2020	15:00	04.03.2020	15:00	04.03.2020	15:00	04.03.2020	15:00	04.03.2020	15:00
SUB: T104704400-20-21	Analyzed:	04.03.2020	22:58	04.04.2020	00:04	04.04.2020	00:26	04.04.2020	00:47	04.04.2020	01:09	04.04.2020	01:31
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.8	49.8
Diesel Range Organics (DRO)		1640	50.0	1370	49.8	89.3	50.0	<50.0	50.0	<50.0	50.0	<49.8	49.8
Motor Oil Range Hydrocarbons (MRO)		185	50.0	176	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0	<49.8	49.8
Total GRO-DRO		1640	50.0	1370	49.8	89.3	50.0	<50.0	50.0	<50.0	50.0	<49.8	49.8
Total TPH		1830	50.0	1550	49.8	89.3	50.0	<50.0	50.0	<50.0	50.0	<49.8	49.8

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Xenco

#### Project Id: 012919281

Dan Moir **Contact:** 

**Project Location:** 

# Certificate of Analysis Summary 657559

WSP USA, Dallas, TX

## Project Name: PLU PC 28 Battery

Date Received in Lab: Wed 04.01.2020 10:10 **Report Date:** 11.19.2020 14:41 Project Manager: Jessica Kramer

	Lab Id:	657559-0	07	657559-0	08	657559-0	009	657559-0	010	657559-0	011	657559-0	012
Analysis Requested	Field Id:	SW03		PH04		PH04A		PH04B		PH05		PH05A	
Anulysis Requested	Depth:	0-2 ft		2- ft		4- ft		6- ft		2- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL	,	SOIL	,	SOIL		SOIL	
	Sampled:	03.31.2020	12:45	03.31.2020	13:00	03.31.2020	13:20	03.31.2020	13:30	03.31.2020	13:50	03.31.2020	14:00
BTEX by EPA 8021B	Extracted:	04.04.2020	17:49	04.04.2020	16:46	04.04.2020	16:46	04.04.2020	16:46	04.04.2020	16:46	04.04.2020	16:46
	Analyzed:	04.05.2020	06:05	04.05.2020	05:04	04.05.2020	05:25	04.05.2020	05:45	04.05.2020	06:06	04.05.2020	06:26
	Units/RL:	mg/kg	RL										
Benzene		< 0.00202	0.00202	< 0.00202	0.00202	< 0.00198	0.00198	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200
Toluene		< 0.00202	0.00202	< 0.00202	0.00202	< 0.00198	0.00198	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200
Ethylbenzene		< 0.00202	0.00202	< 0.00202	0.00202	< 0.00198	0.00198	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200
m,p-Xylenes		< 0.00404	0.00404	< 0.00404	0.00404	<0.00397	0.00397	< 0.00402	0.00402	< 0.00400	0.00400	< 0.00401	0.00401
o-Xylene		< 0.00202	0.00202	< 0.00202	0.00202	< 0.00198	0.00198	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200
Total Xylenes		< 0.00202	0.00202	< 0.00202	0.00202	< 0.00198	0.00198	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200
Total BTEX		< 0.00202	0.00202	< 0.00202	0.00202	< 0.00198	0.00198	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00200	0.00200
Chloride by EPA 300	Extracted:	04.05.2020	16:19	04.05.2020	16:19	04.05.2020	16:19	04.05.2020	16:19	04.05.2020	16:19	04.05.2020	16:19
	Analyzed:	04.06.2020	21:21	04.06.2020	21:27	04.06.2020	21:32	04.06.2020	21:38	04.06.2020	21:43	04.06.2020	21:49
	Units/RL:	mg/kg	RL										
Chloride		21.5	9.98	345	9.98	258	9.96	526	9.98	374	9.90	382	9.88
TPH by SW8015 Mod	Extracted:	04.03.2020	15:00	04.03.2020	15:00	04.03.2020	15:00	04.03.2020	15:00	04.03.2020	13:00	04.03.2020	13:00
SUB: T104704400-20-21	Analyzed:	04.04.2020	01:53	04.04.2020	02:15	04.04.2020	02:37	04.04.2020	02:59	04.03.2020	20:26	04.03.2020	20:48
	Units/RL:	mg/kg	RL										
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.8	49.8	<49.9	49.9	58.7	50.0	<49.9	49.9	<50.0	50.0
Diesel Range Organics (DRO)		<50.0	50.0	<49.8	49.8	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.8	49.8	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0
Total GRO-DRO		<50.0	50.0	<49.8	49.8	<49.9	49.9	58.7	50.0	<49.9	49.9	<50.0	50.0
Total TPH		<50.0	50.0	<49.8	49.8	<49.9	49.9	58.7	50.0	<49.9	49.9	<50.0	50.0

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## **Project Id:** 012919281

Contact: Dan Moir

**Project Location:** 

# Certificate of Analysis Summary 657559

WSP USA, Dallas, TX

## Project Name: PLU PC 28 Battery

 Date Received in Lab:
 Wed 04.01.2020 10:10

 Report Date:
 11.19.2020 14:41

 Project Manager:
 Jessica Kramer

	Lab Id:	657559-013			
Analysis Requested	Field Id:	PH05B			
Analysis Requested	Depth:	6- ft			
	Matrix:	SOIL			
	Sampled:	03.31.2020 14:20			
BTEX by EPA 8021B	Extracted:	04.04.2020 16:46			
	Analyzed:	04.05.2020 06:46			
	Units/RL:	mg/kg RL			
Benzene		<0.00198 0.00198			
Toluene		<0.00198 0.00198			
Ethylbenzene		<0.00198 0.00198			
m,p-Xylenes		<0.00396 0.00396			
o-Xylene		<0.00198 0.00198			
Total Xylenes		<0.00198 0.00198			
Total BTEX		<0.00198 0.00198			
Chloride by EPA 300	Extracted:	04.05.2020 16:19			
	Analyzed:	04.06.2020 21:54			
	Units/RL:	mg/kg RL			
Chloride		199 10.0			
TPH by SW8015 Mod	Extracted:	04.03.2020 13:00			
SUB: T104704400-20-21	Analyzed:	04.03.2020 21:10			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0			
Diesel Range Organics (DRO)		<50.0 50.0			
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0			
Total GRO-DRO		<50.0 50.0			
Total TPH		<50.0 50.0			

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# **Analytical Report 657559**

for

## WSP USA

**Project Manager: Dan Moir** 

PLU PC 28 Battery

## 012919281

## 11.19.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing Xenco

11.19.2020
Project Manager: Dan Moir
WSP USA
2777 N. Stemmons Freeway, Suite 1600
Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): 657559 PLU PC 28 Battery Project Address:

### Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 657559. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 657559 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession beamer

Jessica Kramer Project Manager

A Small Business and Minority Company

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# Sample Cross Reference 657559

## WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01A	S	03.31.2020 09:20	1.5 - 2 ft	657559-001
FS02A	S	03.31.2020 09:40	1.5 - 2 ft	657559-002
FS03A	S	03.31.2020 10:00	1.5 - 3 ft	657559-003
FS04A	S	03.31.2020 10:10	3 - 6 ft	657559-004
SW01	S	03.31.2020 12:10	0 - 2 ft	657559-005
SW02	S	03.31.2020 12:30	0 - 6 ft	657559-006
SW03	S	03.31.2020 12:45	0 - 2 ft	657559-007
PH04	S	03.31.2020 13:00	2 ft	657559-008
PH04A	S	03.31.2020 13:20	4 ft	657559-009
PH04B	S	03.31.2020 13:30	6 ft	657559-010
PH05	S	03.31.2020 13:50	2 ft	657559-011
PH05A	S	03.31.2020 14:00	4 ft	657559-012
PH05B	S	03.31.2020 14:20	6 ft	657559-013

**CASE NARRATIVE** 

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Client Name: WSP USA Project Name: PLU PC 28 Battery

 Project ID:
 012919281

 Work Order Number(s):
 657559

Report Date: *11.19.2020* Date Received: *04.01.2020* 

### Sample receipt non conformances and comments:

V1.001 Revision (client email) Corrected sample names as follows FS06 --> FS01 FS07--> FS02 FS08 --> FS03 FS09 --> FS04 V1.002 Revision (client email) Updated project number and PO V1.003 Revision (client email) Changed client name and sample IDs FS01 ¿ FS01A FS02 ¿ FS02A FS03 ¿ FS03A FS04 ¿ FS04A

### Sample receipt non conformances and comments per sample:

None

### Analytical non conformances and comments:

Batch: LBA-3121964 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3121965 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

# **Certificate of Analytical Results 657559**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: <b>FS01A</b> Lab Sample Id: 657559-001		Matrix Date C	: Soil ollected: 03.31	.2020 09:20		Date Received:04.0 Sample Depth: 1.5 -		10
Analytical Method: Chloride by EP.	A 300					Prep Method: E300	)P	
Tech: MAB								
Analyst: MAB		Date P	rep: 04.05	5.2020 16:19		% Moisture:	<b>XX7 * 1</b> .	
Seq Number: 3122141						Basis: Wet	Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5640	49.5		mg/kg	04.06.2020 20:26		5
Analytical Method:TPH by SW801Tech:DVMAnalyst:ARMSeq Number:3122022	5 Mod	Date P	rep: 04.03	3.2020 15:00		Prep Method: SW8 % Moisture: Basis: Wet SUB: T104704400-2	Weight	
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	04.03.2020 22:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	1640	50.0		mg/kg	04.03.2020 22:58		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	185	50.0		mg/kg	04.03.2020 22:58		1
Total GRO-DRO	PHC628	1640	50.0		mg/kg	04.03.2020 22:58		1
Total TPH	PHC635	1830	50.0		mg/kg	04.03.2020 22:58		1
Surrogate		Cas Number	% Recovery	Units	Limits	s Analysis Date	Flag	
1-Chlorooctane		111-85-3	91	%	70-130	04.03.2020 22:58		
o-Terphenyl		84-15-1	124	%	70-130	04.03.2020 22:58		

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# **Certificate of Analytical Results 657559**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id:FS01ALab Sample Id:657559-001	Matrix:	Soil	Date Received	d:04.01.2020 10:10
	Date Collecte	ed: 03.31.2020 09:20	Sample Depth	1: 1.5 - 2 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3121964	Date Prep:	04.04.2020 16:46	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	04.05.2020 11:32	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	04.05.2020 11:32	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	04.05.2020 11:32	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	04.05.2020 11:32	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	04.05.2020 11:32	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	04.05.2020 11:32	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	04.05.2020 11:32	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	04.05.2020 11:32		
4-Bromofluorobenzene		460-00-4	93	%	70-130	04.05.2020 11:32		

# **Certificate of Analytical Results 657559**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: FS02A Lab Sample Id: 657559-002		Matrix: Date Co	Soil ollected: 03.31	.2020 09:40		Date Received:04.0 Sample Depth: 1.5 -		:10
Analytical Method: Chloride by EPA	A 300					Prep Method: E30	0P	
Tech: MAB						% Moisture:		
Analyst: MAB		Date Pr	ep: 04.05	.2020 16:19			Weight	
Seq Number: 3122141								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4900	49.8		mg/kg	04.06.2020 20:32		5
Analytical Method: TPH by SW801 Tech: DVM	5 Mod					Prep Method: SW8	8015P	
Analyst:ARMSeq Number:3122022		Date Pr	ep: 04.03	.2020 15:00		% Moisture: Basis: Wet SUB: T104704400-	Weight 20-21	
1 11141 ) 501	Cas Number	Date Pr Result	ep: 04.03 RL	.2020 15:00	Units	Basis: Wet	U U	Dil
Seq Number: 3122022 Parameter	Cas Number PHC610			.2020 15:00	Units mg/kg	Basis: Wet SUB: T104704400-	20-21	<b>Dil</b> 1
Seq Number: 3122022		Result	RL	.2020 15:00		Basis: Wet SUB: T104704400- Analysis Date	20-21 Flag	
Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO)	PHC610	Result	RL 49.8	.2020 15:00	mg/kg	Basis: Wet SUB: T104704400- Analysis Date 04.04.2020 00:04	20-21 Flag	1
Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	PHC610 C10C28DRO	Result <49.8 1370	<b>RL</b> 49.8 49.8	.2020 15:00	mg/kg mg/kg	Basis: Wet SUB: T104704400- Analysis Date 04.04.2020 00:04 04.04.2020 00:04	20-21 Flag	1 1
Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	PHC610 C10C28DRO PHCG2835	Result <49.8 1370 176	RL 49.8 49.8 49.8	.2020 15:00	mg/kg mg/kg mg/kg	Basis: Wet SUB: T104704400- Analysis Date 04.04.2020 00:04 04.04.2020 00:04 04.04.2020 00:04	20-21 Flag	1 1 1
Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result <49.8 1370 176 1370	RL 49.8 49.8 49.8 49.8 49.8	.2020 15:00 Units	mg/kg mg/kg mg/kg mg/kg	Basis: Wet SUB: T104704400- Analysis Date 04.04.2020 00:04 04.04.2020 00:04 04.04.2020 00:04 04.04.2020 00:04 04.04.2020 00:04	20-21 Flag	1 1 1 1
Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	PHC610 C10C28DRO PHCG2835 PHC628 PHC635 C:	Result <49.8 1370 176 1370 1550	RL 49.8 49.8 49.8 49.8 49.8 49.8 49.8		mg/kg mg/kg mg/kg mg/kg mg/kg	Basis: Wet SUB: T104704400- Analysis Date 04.04.2020 00:04 04.04.2020 00:04 04.04.2020 00:04 04.04.2020 00:04 04.04.2020 00:04 04.04.2020 00:04	20-21 Flag U Flag	1 1 1 1

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# **Certificate of Analytical Results 657559**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id:FS02ALab Sample Id:657559-002	Matrix:	Soil	Date Received	d:04.01.2020 10:10
	Date Collecte	ed: 03.31.2020 09:40	Sample Depth	a: 1.5 - 2 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3121964	Date Prep:	04.04.2020 16:46	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	04.05.2020 11:52	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	04.05.2020 11:52	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	04.05.2020 11:52	U	1
m,p-Xylenes	179601-23-1	0.00426	0.00403		mg/kg	04.05.2020 11:52		1
o-Xylene	95-47-6	0.0155	0.00202		mg/kg	04.05.2020 11:52		1
Total Xylenes	1330-20-7	0.0198	0.00202		mg/kg	04.05.2020 11:52		1
Total BTEX		0.0198	0.00202		mg/kg	04.05.2020 11:52		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	92	%	70-130	04.05.2020 11:52		
1,4-Difluorobenzene		540-36-3	102	%	70-130	04.05.2020 11:52		

# **Certificate of Analytical Results 657559**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: <b>FS03A</b> Lab Sample Id: 657559-003		Matrix: Date Co	Soil ollected: 03.31	1.2020 10:00		Date Received:04.01 Sample Depth: 1.5 -		:10
Analytical Method: Chloride by EF	PA 300					Prep Method: E300	P	
Tech: MAB						-		
Analyst: MAB		Date Pr	ep: 04.05	5.2020 16:19		% Moisture:	<b>XX7 * 1</b> /	
Seq Number: 3122141						Basis: Wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	50.8	9.88		mg/kg	04.06.2020 20:37		1
Analytical Method:TPH by SW80Tech:DVMAnalyst:ARMSeq Number:3122022	15 Mod	Date Pr	ep: 04.03	3.2020 15:00		Prep Method: SW8 % Moisture: Basis: Wet SUB: T104704400-2	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	04.04.2020 00:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	89.3	50.0		mg/kg	04.04.2020 00:26		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	04.04.2020 00:26	U	1
Total GRO-DRO	PHC628	89.3	50.0		mg/kg	04.04.2020 00:26		1
Total TPH	PHC635	89.3	50.0		mg/kg	04.04.2020 00:26		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-130	04.04.2020 00:26		

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# **Certificate of Analytical Results 657559**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id:	<b>FS03A</b>	Matrix:	Soil	Date Received	:04.01.2020 10:10
Lab Sample Id:	657559-003	Date Collected	: 03.31.2020 10:00	Sample Depth:	: 1.5 - 3 ft
Tech:	nod: BTEX by EPA 8021B MAB MAB 3121965	Date Prep:	04.04.2020 17:49	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.05.2020 03:42	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.05.2020 03:42	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.05.2020 03:42	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	04.05.2020 03:42	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.05.2020 03:42	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	04.05.2020 03:42	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.05.2020 03:42	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	114	%	70-130	04.05.2020 03:42		
4-Bromofluorobenzene		460-00-4	91	%	70-130	04.05.2020 03:42		

# **Certificate of Analytical Results 657559**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: FS04A Lab Sample Id: 657559-004		Matrix: Date Colle	Soil cted: 03.31.2020 10:10		Date Received:04.0 Sample Depth: 3 - 6		10
Analytical Method: Chloride by EF	PA 300				Prep Method: E30	0P	
Tech: MAB							
Analyst: MAB		Date Prep:	04.05.2020 16:19		% Moisture:	<b>XX7</b> • 1 /	
Seq Number: 3122141		Ĩ			Basis: Wet	Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	69.0	9.96	mg/kg	04.06.2020 20:43		1
Analytical Method:TPH by SW80Tech:DVMAnalyst:ARMSeq Number:3122022	15 Mod	Date Prep:	04.03.2020 15:00		Prep Method: SW8 % Moisture: Basis: Wet SUB: T104704400-	Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.04.2020 00:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.04.2020 00:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.04.2020 00:47	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	04.04.2020 00:47	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.04.2020 00:47	U	
	1110000			00		U	1

95

107

111-85-3

84-15-1

1-Chlorooctane

o-Terphenyl

.

70-130

70-130

%

%

04.04.2020 00:47

04.04.2020 00:47

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# **Certificate of Analytical Results 657559**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: FS04A	Matrix:	Soil	Date Received	d:04.01.2020 10:10
Lab Sample Id: 657559-004	Date Collecte	ed: 03.31.2020 10:10	Sample Depth	n: 3 - 6 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3121965	Date Prep:	04.04.2020 17:49	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	04.05.2020 05:04	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	04.05.2020 05:04	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	04.05.2020 05:04	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	04.05.2020 05:04	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	04.05.2020 05:04	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	04.05.2020 05:04	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	04.05.2020 05:04	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	113	%	70-130	04.05.2020 05:04		
4-Bromofluorobenzene		460-00-4	91	%	70-130	04.05.2020 05:04		

## **Certificate of Analytical Results 657559**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: SW01 Lab Sample Id: 657559-005		Matrix: Date Collec	Soil cted: 03.31.2020 12:10		Date Received:04.0 Sample Depth: 0 - 2		10
Analytical Method: Chloride by EF	PA 300				Prep Method: E300	)P	
Tech: MAB							
Analyst: MAB		Date Prep:	04.05.2020 16:19		% Moisture: Basis: Wet	Weight	
Seq Number: 3122141					Dasis. Wet	Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	136	10.0	mg/kg	04.06.2020 20:59		1
Analytical Method:TPH by SW80Tech:DVMAnalyst:ARMSeq Number:3122022	15 1100	Date Prep:	04.03.2020 15:00		Prep Method: SW8 % Moisture: Basis: Wet SUB: T104704400-	Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	
Gasoline Range Hydrocarbons (GRO)							Dil
Gasonne Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.04.2020 01:09	U	<b>Dil</b>
• •	PHC610 C10C28DRO	<50.0 <50.0	50.0 50.0	mg/kg mg/kg	04.04.2020 01:09 04.04.2020 01:09	U U	
Diesel Range Organics (DRO)							1
Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	C10C28DRO	<50.0	50.0	mg/kg	04.04.2020 01:09	U	1 1
Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	C10C28DRO PHCG2835	<50.0 <50.0	50.0 50.0	mg/kg mg/kg	04.04.2020 01:09 04.04.2020 01:09	U U	1 1 1

93

105

%

%

70-130

70-130

111-85-3

84-15-1

1-Chlorooctane

o-Terphenyl

.

04.04.2020 01:09

04.04.2020 01:09

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# **Certificate of Analytical Results 657559**

## WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id:SW01Lab Sample Id:657559-005	Matrix: Date Collecte	Soil d: 03.31.2020 12:10	Date Receive Sample Dept	d:04.01.2020 10:10 h: 0 - 2 ft
Analytical Method: BTEX by EPA 8021B			Prep Method	: SW5030B
Tech: MAB			0/35.	
Analyst: MAB	Date Prep:	04.04.2020 17:49	% Moisture: Basis:	Wet Weight
Seq Number: 3121965			Dasis.	wet weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.05.2020 05:24	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.05.2020 05:24	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.05.2020 05:24	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	04.05.2020 05:24	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.05.2020 05:24	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	04.05.2020 05:24	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.05.2020 05:24	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	94	%	70-130	04.05.2020 05:24		
1,4-Difluorobenzene		540-36-3	114	%	70-130	04.05.2020 05:24		

# **Certificate of Analytical Results 657559**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: <b>SW02</b> Lab Sample Id: 657559-006		Matrix: Date Collec	Soil cted: 03.31.2020 12:30		Date Received:04. Sample Depth: 0 -		:10
Analytical Method: Chloride by El	PA 300				Prep Method: E30	)0P	
Tech: MAB							
Analyst: MAB		Date Prep:	04.05.2020 16:19		% Moisture: Basis: We	t Weight	
Seq Number: 3122141					Dusis. We	t weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	52.0	9.92	mg/kg	04.06.2020 21:05		1
Analytical Method:TPH by SW80Tech:DVMAnalyst:ARMSeq Number:3122022	15 Mod	Date Prep:	04.03.2020 15:00		Prep Method: SW % Moisture: Basis: We SUB: T104704400	t Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	04.04.2020 01:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	04.04.2020 01:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	04.04.2020 01:31	U	1
Total GRO-DRO							1
	PHC628	<49.8	49.8	mg/kg	04.04.2020 01:31	U	1

	1110055	(4).			ing/kg	04.04.2020 01.51	U	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	96	%	70-130	04.04.2020 01:31		
o-Terphenyl		84-15-1	108	%	70-130	04.04.2020 01:31		

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# **Certificate of Analytical Results 657559**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Analytical Method:       BTEX by EPA 8021B       Prep Method:       SW5030B         Tech:       MAB       % Moisture:         Analyst:       MAB       % Moisture:	Sample Id:SW02Lab Sample Id:657559-006	Matrix: Date Collecte	Soil d: 03.31.2020 12:30	Date Received Sample Depth	d:04.01.2020 10:10 n: 0 - 6 ft
Seq Number: 3121965 Date Frep. 04.04.2020 17.47 Basis: Wet Weight	Tech: MAB Analyst: MAB	Date Prep:	04.04.2020 17:49	% Moisture:	

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	04.05.2020 05:45	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	04.05.2020 05:45	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	04.05.2020 05:45	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	04.05.2020 05:45	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	04.05.2020 05:45	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	04.05.2020 05:45	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	04.05.2020 05:45	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	114	%	70-130	04.05.2020 05:45		
4-Bromofluorobenzene		460-00-4	93	%	70-130	04.05.2020 05:45		

# **Certificate of Analytical Results 657559**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: SW03 Lab Sample Id: 657559-007		Matrix: Date Collec	Soil ted: 03.31.2020 12:45		Date Received:04.0 Sample Depth: 0 - 2		:10
Analytical Method: Chloride by EF	PA 300				Prep Method: E30	OP	
Tech: MAB							
Analyst: MAB		Date Prep:	04.05.2020 16:19		% Moisture: Basis: Wet	t Weight	
Seq Number: 3122141						t weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	21.5	9.98	mg/kg	04.06.2020 21:21		1
Analytical Method:TPH by SW80Tech:DVMAnalyst:ARMSeq Number:3122022	15 Mod	Date Prep:	04.03.2020 15:00		Prep Method: SW % Moisture: Basis: Wet SUB: T104704400-	t Weight	
Tech: DVM Analyst: ARM	15 Mod Cas Number		04.03.2020 15:00 RL	Units	% Moisture: Basis: Wet	t Weight	Dil
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter				Units mg/kg	% Moisture: Basis: Wet SUB: T104704400	t Weight -20-21	<b>Dil</b>
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter	Cas Number	Result 1	RL		% Moisture: Basis: Wet SUB: T104704400 Analysis Date	t Weight -20-21 <b>Flag</b>	
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610	<b>Result</b> 1	<b>RL</b> 50.0	mg/kg	<ul> <li>Moisture:</li> <li>Basis: Wet</li> <li>SUB: T104704400-</li> <li>Analysis Date</li> <li>04.04.2020 01:53</li> </ul>	t Weight -20-21 Flag U	1
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> ] <50.0 <50.0	<b>RL</b> 50.0 50.0	mg/kg mg/kg	% Moisture: Basis: Wet SUB: T104704400 Analysis Date 04.04.2020 01:53 04.04.2020 01:53	t Weight -20-21 Flag U U	1

	 			88		-	-
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	94	%	70-130	04.04.2020 01:53		
o-Terphenyl	84-15-1	104	%	70-130	04.04.2020 01:53		

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# **Certificate of Analytical Results 657559**

## WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: SW03	Matrix:	Soil	Date Receive	d:04.01.2020 10:10
Lab Sample Id: 657559-007	Date Collecte	ed: 03.31.2020 12:45	Sample Depth	n: 0 - 2 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3121965	Date Prep:	04.04.2020 17:49	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	04.05.2020 06:05	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	04.05.2020 06:05	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	04.05.2020 06:05	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	04.05.2020 06:05	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	04.05.2020 06:05	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	04.05.2020 06:05	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	04.05.2020 06:05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	116	%	70-130	04.05.2020 06:05		
4-Bromofluorobenzene		460-00-4	95	%	70-130	04.05.2020 06:05		

# **Certificate of Analytical Results 657559**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: <b>PH04</b> Lab Sample Id: 657559-008		Matrix: Date Coll	Soil ected: 03.31.2020 13:00		Date Received:04.01 Sample Depth: 2 ft	1.2020 10:	:10
Analytical Method: Chloride by EP	A 300				Prep Method: E300	)P	
Tech: MAB							
Analyst: MAB		Date Prep	: 04.05.2020 16:19		% Moisture: Basis: Wet	W/-:-1-4	
Seq Number: 3122141					Dasis. wet	Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	345	9.98	mg/kg	04.06.2020 21:27		1
Analytical Method:TPH by SW801Tech:DVMAnalyst:ARMSeq Number:3122022	5 Mod	Date Prep	: 04.03.2020 15:00		Prep Method: SW8 % Moisture: Basis: Wet SUB: T104704400-2	Weight	
Tech: DVM Analyst: ARM	5 Mod Cas Number	Date Prep Result	: 04.03.2020 15:00 RL	Units	% Moisture: Basis: Wet	Weight	Dil
Tech:DVMAnalyst:ARMSeq Number:3122022				Units mg/kg	% Moisture: Basis: Wet SUB: T104704400-2	Weight 20-21	<b>Dil</b>
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter	Cas Number	Result	RL		% Moisture: Basis: Wet SUB: T104704400-2 Analysis Date	Weight 20-21 <b>Flag</b>	
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	<b>Result</b> <49.8	<b>RL</b> 49.8	mg/kg	% Moisture: Basis: Wet SUB: T104704400-2 Analysis Date 04.04.2020 02:15	Weight 20-21 Flag U	1
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <49.8 <49.8	<b>RL</b> 49.8 49.8	mg/kg mg/kg	% Moisture: Basis: Wet SUB: T104704400-2 Analysis Date 04.04.2020 02:15 04.04.2020 02:15	Weight 20-21 Flag U U	1 1
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	<b>Result</b> <49.8 <49.8 <49.8	<b>RL</b> 49.8 49.8 49.8	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet SUB: T104704400-2 Analysis Date 04.04.2020 02:15 04.04.2020 02:15 04.04.2020 02:15	Weight 20-21 Flag U U U	1 1 1
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	Cas Number PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result <49.8 <49.8 <49.8 <49.8 <49.8 <49.8	<b>RL</b> 49.8 49.8 49.8 49.8	mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet SUB: T104704400-2 Analysis Date 04.04.2020 02:15 04.04.2020 02:15 04.04.2020 02:15 04.04.2020 02:15 04.04.2020 02:15	Weight 20-21 Flag U U U U U	1 1 1 1

118

%

70-130

04.04.2020 02:15

84-15-1

o-Terphenyl

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# **Certificate of Analytical Results 657559**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id:PH04Lab Sample Id:657559-008	Matrix: Date Collecte	Soil ed: 03.31.2020 13:00	Date Received Sample Depth	d:04.01.2020 10:10 n: 2 ft
Analytical Method: BTEX by EPA 8021B			Prep Method:	SW5030B
Tech: MAB Analyst: MAB	Date Prep:	04.04.2020 16:46	% Moisture:	
Seq Number: 3121964			Basis:	Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	04.05.2020 05:04	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	04.05.2020 05:04	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	04.05.2020 05:04	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	04.05.2020 05:04	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	04.05.2020 05:04	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	04.05.2020 05:04	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	04.05.2020 05:04	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	107	%	70-130	04.05.2020 05:04		
4-Bromofluorobenzene		460-00-4	96	%	70-130	04.05.2020 05:04		

# **Certificate of Analytical Results 657559**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: <b>PH04A</b> Lab Sample Id: 657559-009		Matrix: Date Col	Soil lected: 03.31.2020 13:20		Date Received:04.0 Sample Depth: 4 ft	1.2020 10:	10
Analytical Method: Chloride by EP	A 300				Prep Method: E300	)P	
Tech: MAB							
Analyst: MAB		Date Prep	p: 04.05.2020 16:19		% Moisture: Basis: Wet	Weight	
Seq Number: 3122141					Dasis. Wet	weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	258	9.96	mg/kg	04.06.2020 21:32		1
Analytical Method: TPH by SW80 Tech: DVM Analyst: ARM	15 Mod				Prep Method: SW8	3015P	
Analyst: ARM Seq Number: 3122022		Date Prej	p: 04.03.2020 15:00		% Moisture: Basis: Wet SUB: T104704400-2	Weight 20-21	
	Cas Number	Date Prep Result	e: 04.03.2020 15:00	Units	Basis: Wet	U	Dil
Seq Number: 3122022	Cas Number PHC610			Units mg/kg	Basis: Wet SUB: T104704400-2	20-21	<b>Dil</b>
Seq Number: 3122022 Parameter		Result	RL		Basis: Wet SUB: T104704400- Analysis Date	20-21 Flag	
Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO)	PHC610	Result <49.9	<b>RL</b> 49.9	mg/kg	Basis: Wet SUB: T104704400-3 Analysis Date 04.04.2020 02:37	20-21 Flag U	1
Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	PHC610 C10C28DRO	<b>Result</b> <49.9 <49.9	<b>RL</b> 49.9 49.9	mg/kg mg/kg	Basis: Wet SUB: T104704400-3 Analysis Date 04.04.2020 02:37 04.04.2020 02:37	20-21 Flag U U	1
Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	PHC610 C10C28DRO PHCG2835	<b>Result</b> <49.9 <49.9 <49.9 <49.9	<b>RL</b> 49.9 49.9 49.9	mg/kg mg/kg mg/kg	Basis: Wet SUB: T104704400-2 Analysis Date 04.04.2020 02:37 04.04.2020 02:37 04.04.2020 02:37	20-21 Flag U U U	1 1 1
Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	PHC610 C10C28DRO PHCG2835 PHC628 PHC635	<b>Result</b> <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9	<b>RL</b> 49.9 49.9 49.9 49.9	mg/kg mg/kg mg/kg mg/kg	Basis: Wet SUB: T104704400-2 Analysis Date 04.04.2020 02:37 04.04.2020 02:37 04.04.2020 02:37 04.04.2020 02:37 04.04.2020 02:37	20-21 Flag U U U U U	1 1 1 1

101

%

70-130

04.04.2020 02:37

84-15-1

o-Terphenyl
eurofins Environment Testing Xenco

## **Certificate of Analytical Results 657559**

## WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id:PH04ALab Sample Id:657559-009	Matrix:	Soil	Date Received	d:04.01.2020 10:10
	Date Collecte	ed: 03.31.2020 13:20	Sample Depth	n: 4 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3121964	Date Prep:	04.04.2020 16:46	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	04.05.2020 05:25	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	04.05.2020 05:25	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	04.05.2020 05:25	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	04.05.2020 05:25	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	04.05.2020 05:25	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	04.05.2020 05:25	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	04.05.2020 05:25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	107	%	70-130	04.05.2020 05:25		
4-Bromofluorobenzene		460-00-4	95	%	70-130	04.05.2020 05:25		

## **Certificate of Analytical Results 657559**

## WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: <b>PH04B</b> Lab Sample Id: 657559-010		Matrix: Date Colle	Soil ected: 03.31.2020 13:30		Date Received:04.01 Sample Depth: 6 ft	1.2020 10:	10
Analytical Method: Chloride by EPA	A 300				Prep Method: E300	)P	
Tech: MAB							
Analyst: MAB		Date Prep	: 04.05.2020 16:19		% Moisture:		
Seq Number: 3122141		1			Basis: Wet	Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	526	9.98	mg/kg	04.06.2020 21:38		1
Analytical Method: TPH by SW801	5 Mod						
Tech: DVM Analyst: ARM Seq Number: 3122022	5 Mou	Date Prep	: 04.03.2020 15:00		Prep Method: SW8 % Moisture: Basis: Wet SUB: T104704400-2	Weight	
Tech: DVM Analyst: ARM	Cas Number	Date Prep Result	: 04.03.2020 15:00 RL	Units	% Moisture: Basis: Wet	Weight	Dil
Tech: DVM Analyst: ARM Seq Number: 3122022		Ĩ		Units mg/kg	% Moisture: Basis: Wet SUB: T104704400-2	Weight 20-21	<b>Dil</b>
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter	Cas Number	Result	RL		% Moisture: Basis: Wet SUB: T104704400-2 Analysis Date	Weight 20-21	
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result 58.7	<b>RL</b> 50.0	mg/kg	% Moisture: Basis: Wet SUB: T104704400-2 Analysis Date 04.04.2020 02:59	Weight 20-21 Flag	1
Tech: DVM Analyst: ARM Seq Number: 3122022 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result 58.7 <50.0	<b>RL</b> 50.0 50.0	mg/kg mg/kg	% Moisture: Basis: Wet SUB: T104704400-2 Analysis Date 04.04.2020 02:59 04.04.2020 02:59	Weight 20-21 Flag U	1 1
Tech:       DVM         Analyst:       ARM         Seq Number:       3122022         Parameter         Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)       Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	<b>Result</b> 58.7 <50.0 <50.0	<b>RL</b> 50.0 50.0 50.0	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet SUB: T104704400-2 Analysis Date 04.04.2020 02:59 04.04.2020 02:59 04.04.2020 02:59	Weight 20-21 Flag U	1 1 1
Tech:       DVM         Analyst:       ARM         Seq Number:       3122022         Parameter         Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)       Motor Oil Range Hydrocarbons (MRO)         Total GRO-DRO       Total GRO-DRO	<b>Cas Number</b> PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result 58.7 <50.0 <50.0 58.7 58.7 58.7	<b>RL</b> 50.0 50.0 50.0 50.0 50.0	mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet SUB: T104704400-2 Analysis Date 04.04.2020 02:59 04.04.2020 02:59 04.04.2020 02:59 04.04.2020 02:59 04.04.2020 02:59	Weight 20-21 Flag U	1 1 1 1

112

%

70-130

84-15-1

o-Terphenyl

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04.04.2020 02:59

Xenco

Environment Testing

🔅 eurofins

## Certificate of Analytical Results 657559

### WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id:PH04BLab Sample Id:657559-010	Matrix: Soil Date Collected: 03.31.2020 13:30	Date Received:04.01.2020 10:10 Sample Depth: 6 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 04.04.2020 16:46	Basis: Wet Weight
Seq Number: 3121964		

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	04.05.2020 05:45	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	04.05.2020 05:45	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	04.05.2020 05:45	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	04.05.2020 05:45	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	04.05.2020 05:45	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	04.05.2020 05:45	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	04.05.2020 05:45	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	95	%	70-130	04.05.2020 05:45		
1,4-Difluorobenzene		540-36-3	108	%	70-130	04.05.2020 05:45		

### **Certificate of Analytical Results 657559**

## WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: <b>PH05</b> Lab Sample Id: 657559-011		Matrix: Date Collec	Soil cted: 03.31.2020 13:50		Date Received:04.0 Sample Depth: 2 ft	1.2020 10:	10
Analytical Method: Chloride by EF	PA 300				Prep Method: E300	)P	
Tech: MAB							
Analyst: MAB		Date Prep:	04.05.2020 16:19		% Moisture:	XX7 * 1 /	
Seq Number: 3122141		1			Basis: Wet	Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	374	9.90	mg/kg	04.06.2020 21:43		1
Analytical Method:TPH by SW80Tech:DVMAnalyst:ARMSeq Number:3122021	13 Midd	Date Prep:	04.03.2020 13:00		Prep Method: SW8 % Moisture: Basis: Wet SUB: T104704400-	Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.03.2020 20:26	U	1
	PHC610 C10C28DRO	<49.9 <49.9	49.9 49.9	mg/kg mg/kg	04.03.2020 20:26 04.03.2020 20:26	U U	
Diesel Range Organics (DRO)				0 0			1
Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	C10C28DRO	<49.9	49.9	mg/kg	04.03.2020 20:26	U	1 1
Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO Total TPH	C10C28DRO PHCG2835	<49.9 <49.9	49.9 49.9	mg/kg mg/kg	04.03.2020 20:26 04.03.2020 20:26	U U	1 1 1

108

114

%

%

70-130

70-130

111-85-3

84-15-1

1-Chlorooctane

o-Terphenyl

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04.03.2020 20:26

04.03.2020 20:26

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## **Certificate of Analytical Results 657559**

## WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: <b>PH05</b> Lab Sample Id: 657559-011	Matrix: Soil Date Collected: 03.31.2020 13:50	Date Received:04.01.2020 10:10 Sample Depth: 2 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: MAB		0/ <b>M</b> · /
Analyst: MAB	Date Prep: 04.04.2020 16:46	% Moisture: Basis: Wet Weight
Seq Number: 3121964		Dasis. Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.05.2020 06:06	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.05.2020 06:06	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.05.2020 06:06	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	04.05.2020 06:06	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.05.2020 06:06	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	04.05.2020 06:06	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.05.2020 06:06	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	92	%	70-130	04.05.2020 06:06		
1,4-Difluorobenzene		540-36-3	104	%	70-130	04.05.2020 06:06		

## **Certificate of Analytical Results 657559**

## WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: <b>PH05A</b> Lab Sample Id: 657559-012		Matrix: Date Co	Soil ollected: 03.31	.2020 14:00		Date Received:04.0 Sample Depth: 4 ft	1.2020 10	:10
Analytical Method: Chloride by EP.	A 300					Prep Method: E300	)P	
Tech: MAB								
Analyst: MAB		Date Pr	ep: 04.05	.2020 16:19		% Moisture: Basis: Wet	Weislet	
Seq Number: 3122141						Dasis. wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	382	9.88		mg/kg	04.06.2020 21:49		1
Analytical Method: TPH by SW801Tech:DVMAnalyst:ARMSeq Number:3122021	5 Mod	Date Pr	ep: 04.03	3.2020 13:00		Prep Method: SW8 % Moisture: Basis: Wet SUB: T104704400-2	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	04.03.2020 20:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0		mg/kg	04.03.2020 20:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	04.03.2020 20:48	U	1
Total GRO-DRO	PHC628	<50.0	50.0		mg/kg	04.03.2020 20:48	U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	04.03.2020 20:48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	94	%	70-130	04.03.2020 20:48		

102

%

70-130

84-15-1

o-Terphenyl

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04.03.2020 20:48

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Environment Testing

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## **Certificate of Analytical Results 657559**

## WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id:PH05ALab Sample Id:657559-012	Matrix:	Soil	Date Receive	d:04.01.2020 10:10
	Date Collect	ed: 03.31.2020 14:00	Sample Depth	n: 4 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3121964	Date Prep:	04.04.2020 16:46	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.05.2020 06:26	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.05.2020 06:26	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.05.2020 06:26	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	04.05.2020 06:26	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.05.2020 06:26	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	04.05.2020 06:26	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.05.2020 06:26	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	108	%	70-130	04.05.2020 06:26		
4-Bromofluorobenzene		460-00-4	95	%	70-130	04.05.2020 06:26		

## **Certificate of Analytical Results 657559**

## WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id: <b>PH05B</b> Lab Sample Id: 657559-013		Matrix: Date Colle	Soil ected: 03.31.2020 14:20		Date Received:04.01 Sample Depth: 6 ft	1.2020 10:	:10
Analytical Method: Chloride by EP	A 300				Prep Method: E300	)P	
Tech: MAB							
Analyst: MAB		Date Prep	: 04.05.2020 16:19		% Moisture:	<b>X</b> 7 • 1 /	
Seq Number: 3122141					Basis: Wet	Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	199	10.0	mg/kg	04.06.2020 21:54		1
Angladical Matheds (TDH Las SW00)	15 14-1				Dece Matheda CW0	20150	
Analytical Method: TPH by SW80 Tech: DVM Analyst: ARM Seq Number: 3122021	15 Mod	Date Prep	: 04.03.2020 13:00		Prep Method: SW8 % Moisture: Basis: Wet SUB: T104704400-2	Weight	
Tech: DVM Analyst: ARM	15 Mod Cas Number	Date Prep Result	: 04.03.2020 13:00 RL	Units	% Moisture: Basis: Wet	Weight	Dil
Tech: DVM Analyst: ARM Seq Number: 3122021				Units mg/kg	% Moisture: Basis: Wet SUB: T104704400-2	Weight 20-21	<b>Dil</b>
Tech: DVM Analyst: ARM Seq Number: 3122021 Parameter	Cas Number	Result	RL		<ul> <li>Moisture:</li> <li>Basis: Wet</li> <li>SUB: T104704400-2</li> <li>Analysis Date</li> </ul>	Weight 20-21 Flag	
Tech: DVM Analyst: ARM Seq Number: 3122021 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <50.0	<b>RL</b> 50.0	mg/kg	% Moisture: Basis: Wet SUB: T104704400-2 Analysis Date 04.03.2020 21:10	Weight 20-21 Flag U	1
Tech: DVM Analyst: ARM Seq Number: 3122021 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	<b>Result</b> <50.0 <50.0	<b>RL</b> 50.0 50.0	mg/kg mg/kg	% Moisture: Basis: Wet SUB: T104704400-2 Analysis Date 04.03.2020 21:10 04.03.2020 21:10	Weight 20-21 Flag U U	1 1
Tech:       DVM         Analyst:       ARM         Seq Number:       3122021         Parameter         Gasoline Range Hydrocarbons (GRO)         Diesel Range Organics (DRO)         Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835	<b>Result</b> <50.0 <50.0 <50.0	<b>RL</b> 50.0 50.0 50.0	mg/kg mg/kg mg/kg	% Moisture: Basis: Wet SUB: T104704400-2 Analysis Date 04.03.2020 21:10 04.03.2020 21:10	Weight 20-21 Flag U U U	1 1 1
Tech: DVM Analyst: ARM Seq Number: 3122021 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total GRO-DRO	<b>Cas Number</b> PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Result           <50.0	<b>RL</b> 50.0 50.0 50.0 50.0 50.0	mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet SUB: T104704400-2 Analysis Date 04.03.2020 21:10 04.03.2020 21:10 04.03.2020 21:10 04.03.2020 21:10 04.03.2020 21:10	Weight 20-21 Flag U U U U U	1 1 1 1

105

%

70-130

04.03.2020 21:10

84-15-1

o-Terphenyl

eurofins Environment Testing Xenco

## **Certificate of Analytical Results 657559**

# WSP USA, Dallas, TX

PLU PC 28 Battery

Sample Id:PH05BLab Sample Id:657559-013	Matrix:	Soil	Date Received	d:04.01.2020 10:10
	Date Collecte	ed: 03.31.2020 14:20	Sample Depth	n: 6 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3121964	Date Prep:	04.04.2020 16:46	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	04.05.2020 06:46	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	04.05.2020 06:46	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	04.05.2020 06:46	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	04.05.2020 06:46	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	04.05.2020 06:46	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	04.05.2020 06:46	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	04.05.2020 06:46	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	95	%	70-130	04.05.2020 06:46		
1,4-Difluorobenzene		540-36-3	106	%	70-130	04.05.2020 06:46		

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## **Flagging Criteria**

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

<b>BRL</b> Below Reporting Limit.	ND Not Detected			
<b>RL</b> Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Sampl	le Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	for this compound.			

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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**Environment Testing** 

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### QC Summary 657559

## WSP USA

#### PLU PC 28 Battery

Analytical Method: Seq Number:	3122141				Matrix:					ep Meth Date Pr	rep: 04.0	)5.2020	
MB Sample Id:	7700533-1-1	BLK		LCS Sar	nple Id:	7700533-	I-BKS		LCSI	D Sampl	e Id: 770	0533-1-BSD	
Parameter		MB Dogula	Spike	LCS Bogult		LCSD		Limits	%RPD	RPD Limit	Units	Analysis Date	Fla
Chloride		Result <10.0	Amount 250	Result 266	<b>%Rec</b> 106	Result 268	<b>%Rec</b> 107	90-110	1	20	mg/kg	04.06.2020 19:15	
									-		88		
Analytical Method:	-	y EPA 3(	)0						Pr	ep Meth			
Seq Number:	3122141				Matrix:					Date Pr	-	)5.2020	
Parent Sample Id:	657559-004			MS Sar	nple Id:	657559-00	)4 S		MSI	D Sampl	e Id: 657	559-004 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Fla
Chloride		69.0	200	282	107	283	107	90-110	0	20	mg/kg	04.06.2020 20:48	
Analytical Method:	Chloride by	y EPA 3(	)0						Pr	ep Meth		0P	
Seq Number:	3122141				Matrix:					Date Pr	-	05.2020	
Parent Sample Id:	657765-074				nple Id:	657765-07	/4 S			-	e Id: 657	765-074 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Fla
Chloride		29.4	200	243	107	246	108	90-110	1	20	mg/kg	04.06.2020 19:32	
Analytical Method:	-	V8015 M	od		Moteire	Calid			Pr	ep Meth		8015P	
Seq Number: MB Sample Id:	3122021 7700557-1-1				Matrix:	7700557-2	I-BKS		LCS	Date Pr	-	)3.2020 0557-1-BSD	
vib Sample Id.	//00557-1-1	MB	Spilro	LCS	LCS			Limits	%RPD	RPD	Units	Analysis	
Parameter		Result	Spike Amount	Result	%Rec	LCSD Result	LCSD %Rec	Linns	70 <b>K</b> F <i>D</i>	Limit	Units	Date	Fla
Gasoline Range Hydrocarb	ons (GRO)	< 50.0	1000	934	93	985	99	70-130	5	20	mg/kg	04.03.2020 12:21	
Diesel Range Organics	(DRO)	<50.0	1000	980	98	1030	103	70-130	5	20	mg/kg	04.03.2020 12:21	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date	
-Chlorooctane		105			99		104			-130	%	04.03.2020 12:21	
p-Terphenyl		121		1	15		112		70	-130	%	04.03.2020 12:21	
Analytical Method:	-	V8015 M	od						Pr	ep Meth		8015P	
Seq Number:	3122022				Matrix:		DVC		T CO	Date Pr	-	)3.2020	
MB Sample Id:	7700560-1-1				-	7700560-3	I-BK2					0560-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Fla
Section Development 1		<50.0 <50.0	1000 1000	957 1030	96 103	1060 1150	106 115	70-130 70-130	10 11	20 20	mg/kg mg/kg	04.03.2020 22:15 04.03.2020 22:15	
		<ju.u< td=""><td>1000</td><td>1050</td><td>103</td><td>1150</td><td>113</td><td>/0-130</td><td>11</td><td>20</td><td>mg/kg</td><td>5</td><td></td></ju.u<>	1000	1050	103	1150	113	/0-130	11	20	mg/kg	5	
	(DRO)				~~	LCS	LCSI	) LCS	D Li	mits	Units	Analysis	
Diesel Range Organics	(DRO)	MB %Rec	MB Flag		CS Rec	Flag	%Re	c Fla	g			Date	
Gasoline Range Hydrocarb Diesel Range Organics Surrogate I-Chlorooctane	(DRO)			%						-130	%	•	

Relative Percent Difference LCS/LCSD Recovery Log Difference  $\begin{array}{l} [D] = 100^{+}(C-A) / B \\ RPD = 200^{+} | (C-E) / (C+E) | \\ [D] = 100^{+} (C) / [B] \\ Log Diff. = Log(Sample Duplicate) - Log(Original Sample) \end{array}$ 

A = Parent Result C = MS/LCS Result E = MSD/LCSD Result

MS = Matrix SpikeB = Spike Added D = MSD/LCSD % Rec

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Final 1.003
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Motor Oil Range Hydrocarbons (MRO)

Seq Number:

Parameter

Analytical Method: TPH by SW8015 Mod

3122021

#### **QC Summary** 657559

#### WSP USA PLU PC 28 Battery

Matrix: Solid MB Sample Id: 7700557-1-BLK MB Result < 50.0

SW8015P Prep Method: Date Prep: 04.03.2020

Units Analysis Flag Date 04.03.2020 11:58 mg/kg

Analytical Method: Seq Number:	<b>TPH by SW8015 Mod</b> 3122022	Matrix: MB Sample Id:	Solid 7700560-1-BLK	Prep Method: Date Prep:		8015P )3.2020	
Parameter		MB Result		τ	J <b>nits</b>	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)	<50.0		n	ng/kg	04.03.2020 21:53	

Analytical Method:	TPH by SV	W8015 M	od						P	rep Meth	od: SW	8015P	
Seq Number:	3122021				Matrix:	Soil				Date Pr	ep: 04.0	03.2020	
Parent Sample Id:	657364-04	1		MS Sar	nple Id:	657364-04	41 S		MS	D Sample	e Id: 657	364-041 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<49.8	996	917	92	1050	105	70-130	14	20	mg/kg	04.03.2020 13:27	
Diesel Range Organics	(DRO)	<49.8	996	985	99	1140	114	70-130	15	20	mg/kg	04.03.2020 13:27	
Surrogate					1S Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1-Chlorooctane				ç	98		111		70	-130	%	04.03.2020 13:27	
o-Terphenyl				1	06		125		70	-130	%	04.03.2020 13:27	

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>TPH by S</b> 3122022 657559-00		od		Matrix: nple Id:	Soil 657559-00	01 S			ep Metho Date Pr D Sample	ep: 04.0	8015P )3.2020 559-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<49.9	998	930	93	912	91	70-130	2	20	mg/kg	04.03.2020 23:20	
Diesel Range Organics (	DRO)	1640	998	2520	88	2490	85	70-130	1	20	mg/kg	04.03.2020 23:20	
Surrogate					1S Rec	MS Flag	MSD %Rec			mits	Units	Analysis Date	
1-Chlorooctane				ç	97		94		70	-130	%	04.03.2020 23:20	
o-Terphenyl				ç	92		92		70	-130	%	04.03.2020 23:20	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100\*(C-A) / B $\begin{array}{l} \label{eq:response} RPD = 200^{\circ} \mid (C\!\!+\!E) \mid \\ \mbox{[D]} = 100^{\circ} (C) / [B] \\ \mbox{Log Diff.} = \mbox{Log(Sample Duplicate)} - \mbox{Log(Original Sample)} \end{array}$  LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result

MS = Matrix Spike B = Spike AddedD = MSD/LCSD % Rec

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**Environment Testing** 

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### QC Summary 657559

## WSP USA

#### PLU PC 28 Battery

Analytical Method:	BTEX by EPA 8021	IB						Р	rep Meth	od: SW	5030B	
Seq Number:	3121964			Matrix:	Solid				Date Pr	ep: 04.0	04.2020	
MB Sample Id:	7700539-1-BLK		LCS San	nple Id:	7700539-	1-BKS		LCS	D Sample	e Id: 770	0539-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.111	111	0.107	107	70-130	4	35	mg/kg	04.05.2020 03:02	
Toluene	< 0.00200	0.100	0.105	105	0.101	101	70-130	4	35	mg/kg	04.05.2020 03:02	
Ethylbenzene	< 0.00200	0.100	0.0983	98	0.0945	95	71-129	4	35	mg/kg	04.05.2020 03:02	
m,p-Xylenes	< 0.00400	0.200	0.201	101	0.193	97	70-135	4	35	mg/kg	04.05.2020 03:02	
o-Xylene	< 0.00200	0.100	0.103	103	0.0988	99	71-133	4	35	mg/kg	04.05.2020 03:02	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	106		1	05		105		70	)-130	%	04.05.2020 03:02	
4-Bromofluorobenzene	95		ç	91		91		70	)-130	%	04.05.2020 03:02	

Analytical Method: Seq Number: MB Sample Id:	<b>BTEX by EPA 8021</b> 3121965 7700540-1-BLK	B	] LCS San	Matrix: nple Id:		1-BKS			rep Metho Date Pr D Sample	ep: 04.0	5030B )4.2020 0540-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.117	117	0.116	116	70-130	1	35	mg/kg	04.04.2020 22:36	
Toluene	< 0.00200	0.100	0.106	106	0.106	106	70-130	0	35	mg/kg	04.04.2020 22:36	
Ethylbenzene	< 0.00200	0.100	0.0986	99	0.0978	98	71-129	1	35	mg/kg	04.04.2020 22:36	
m,p-Xylenes	< 0.00400	0.200	0.191	96	0.190	95	70-135	1	35	mg/kg	04.04.2020 22:36	
o-Xylene	< 0.00200	0.100	0.0987	99	0.0975	98	71-133	1	35	mg/kg	04.04.2020 22:36	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	114		1	09		109		70	-130	%	04.04.2020 22:36	
4-Bromofluorobenzene	91		8	34		84		70	-130	%	04.04.2020 22:36	

Analytical Method:	BTEX by EPA 8021	lB						P	rep Meth	od: SW	5030B	
Seq Number:	3121964		]	Matrix:	Soil				Date Pr	ep: 04.0	04.2020	
Parent Sample Id:	657559-008		MS San	nple Id:	657559-00	)8 S		MS	D Sample	e Id: 657	559-008 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.0941	93	0.0918	92	70-130	2	35	mg/kg	04.05.2020 04:03	
Toluene	< 0.00202	0.101	0.0863	85	0.0860	86	70-130	0	35	mg/kg	04.05.2020 04:03	
Ethylbenzene	< 0.00202	0.101	0.0792	78	0.0797	80	71-129	1	35	mg/kg	04.05.2020 04:03	
m,p-Xylenes	< 0.00404	0.202	0.161	80	0.164	82	70-135	2	35	mg/kg	04.05.2020 04:03	
o-Xylene	< 0.00202	0.101	0.0830	82	0.0830	83	71-133	0	35	mg/kg	04.05.2020 04:03	
Surrogate				IS Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene			10	05		105		70	-130	%	04.05.2020 04:03	
4-Bromofluorobenzene			9	01		92		70	-130	%	04.05.2020 04:03	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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**Environment Testing** 

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### QC Summary 657559

# WSP USA

#### PLU PC 28 Battery

Analytical Method:	BTEX by EPA 802	1B						P	rep Meth	od: SW	5030B	
Seq Number:	3121965		]	Matrix:	Soil				Date Pr	ep: 04.0	04.2020	
Parent Sample Id:	657499-002		MS San	nple Id:	657499-00	02 S		MS	D Sample	e Id: 657	499-002 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.118	118	0.113	114	70-130	4	35	mg/kg	04.04.2020 23:17	
Toluene	< 0.00199	0.0996	0.104	104	0.100	101	70-130	4	35	mg/kg	04.04.2020 23:17	
Ethylbenzene	< 0.00199	0.0996	0.0944	95	0.0917	92	71-129	3	35	mg/kg	04.04.2020 23:17	
m,p-Xylenes	< 0.00398	0.199	0.181	91	0.176	89	70-135	3	35	mg/kg	04.04.2020 23:17	
o-Xylene	< 0.00199	0.0996	0.0952	96	0.0917	92	71-133	4	35	mg/kg	04.04.2020 23:17	
Surrogate				IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	09		109		70	-130	%	04.04.2020 23:17	
4-Bromofluorobenzene			8	6		85		70	-130	%	04.04.2020 23:17	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

								3 (
	f	4			A UN	Ker la	NO.	1 Well Pre
4	fc fc	2 July	CAH3	4/1/20	0110	1	(N)	Ivolinidaionoa
(Signature)	Received by:	Relinquished by: (Signature)	Date/Time	e)	Received by: (Signature)	Re	Relinquished by (Signature)	
-	ch losses are due to circumstances beyond the control ns will be enforced unless previously negotiated.	Notice: Signature of this document and relinquishment of samples constitutes a value perchase or expenses incurred by the client if such losses are due to circumstances beyond the control 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 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 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 service. 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.	ed to Xenco, but not an	onsibility for any losse or each sample submitt	gnature of this document and relinquishment of samples constitutes a value priories of our monocoments. Some of 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 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 tem 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 tem	st of samples and applied to each p	is document and relinqu be liable only for the co charge of \$75.00 will be	Notice: Signature of th of service. Xenco will of Xenco. A minimum
1631 / 245.1 / 7470 / 7471 : Hg	Se Ag TI U tandard terms and conditions	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	Sb As Ba Be C	6010: 8RCRA	d TCLP / SPLP 6010:	to be analyze	Circle Method(s) and Metal(s) to be analyzed	Circle Method(s) a
SiO2 Na Sr TI Sn U V	Mg Mn Mo Ni K Se Ag	Cd Ca Cr Co Cu Fe Pb	COLL	M Texas 11 Al	SECEA 13PPM		0	
					110	/	FING HQ	
				6	Casl		PHOY	
Disere				2-0	Shall		SW0 J	
				1	1730		SW02	
				0-2	1210		Swol	
				3'-6'	1010		FSog	
				,5'-5	(000)		FSOS	
				1.5'-2'	09110	-	FSOT	
Alter Just)			XXX	.5'-2' (	1/20 09,20	5 3/3	7506	
Sample Comments			TPH (E BTEX Chlori	Depth Numb	Date Time Sampled Sampled	Matrix Sam	ntification	Sample Identification
			(EPA	J.	Total Containers:	NIA	als: Yes No	Sample Custody Seals:
TAT starts the day received by the lab, if received by 4:30pm			A 0=8	Ż	Correction Factor:	NIA	Yes	Cooler Custody Seals:
			8021	onta	THIND	No	(Yes)	Received Intact:
			10	1	Thermometer ID	0	×	Temperature (°C):
				Yes No	No Wet Ice:	Temp Blank: Yes		SAMPLE RECEIPT
				<u>,</u>	Due Date:		Benjamin Belill	Sampler's Name:
					Rush:	La	226-262	P.O. Number:
					Routine	SO	012919 25	Project Number:
WOIN OIDEL NOIS	-	ANALYSIS REQUEST	-	Turn Around	Turn	Burtery	PLU PC 28	Project Name:
				Email: bbelill@ltenv.com	Email: bt		432.236.3849	Phone:
			Carlsbad, NM 88220	City, State ZIP: 0	Ci	05	Midland, TX 79705	City, State ZIP:
ST/UST RRP	level III		3104 E Green Street		Ac	reet	3300 North A Street	Address:
			XIU Energy	Company Name:	Permian office Co	-	LT Environmental, Inc.,	Company Name:
PRP Brownfields RC	Program. IIST/PST PRP		Kyle Lillieli				Dan Moir	Project Manager:
Work Order Comments		- 1	000 0000) / menuter	30) FILUEIIIA,742 (790	Hobbs, NM (5/ 3-392-7530) Filodilia, Az (100 000 0000) Amerika Principality (100 000 0000)			
o.com Page	2000) www.xenco.com	iouston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio, i A (a i v) sus-sus- Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Amonio,TX Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX ( 100-0750) Departs A7 (490-355-0900) Atlanta GA (770-449-8800)	(281) 240-4200 Dalli X (432-704-5440) EL	Houston, TX Midland, T	U)	BORATORIES	SX.
LE INC.	WOIN CIUCI INC.	ISLOUV	chain of custouy	C				

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Project Name:     PLUR 28     Cutrue     Turn Around     AMALYSIS REQUEST       Project Number:     ZAP 55     Reading     Reading     Reading       Project Number:     ZAP 56 9 7     Rush:     Rush:     Rush:       Sampler S Name:     Banjamin Baili     Date     Rush:     Rush:       Sampler S Name:     Banjamin Baili     Date     Rush:     Rush:       Sampler S Name:     Banjamin Baili     Date     Rush:     Rush:       Sampler Subord State:     Vis. No. NIX     Concision Fador     Concision Fador       Received Intract:     Date     Time     Dapht     Time       Sample Identification     Matrix     Sampled     Dopht     Number of Containers       Colored Custory Seale:     Vis. No. NIX     Concision Fador     Dopht     Number of Containers       Sample Identification     Matrix     Sampled     Dopht     Number of Containers       Colored Custory Seale:     Vis. No. NIX     Sampled     Dopht     Number of Containers       Colored Custory Seale:     Vis. No. NIX     Sampled     Sampled Sampled     Nix. Nix. Nix. Nix Nix Nix Nix Nix Nix Nix Nix Nix. Nix	Project Manager: D Company Name: L: Address: 3: City, State ZIP: M Phone: 4:	Ar: Dan Moir E: LT Environmental, Inc., Permian office 3300 North A Street Midland, TX 79705 432.236.3849	Houston,TX (281) 240-4200 Midland,TX (432-704-544( 505,NM (575-392-7550) Phoenik,AZ Bill to: (if different) Office Company Name: Address: City, State ZIP: Email:	<ul> <li>Dallas, TX (214) 902-0300 San Antonio,</li> <li>D) EL Paso, TX (915)585-3443 Lubbock, T</li> <li>(480-355-0900) Atlanta, GA (770-449-88</li> <li>Kyle Littrell</li> <li>XTO Energy</li> <li>3104 E Green Street</li> <li>Carlsbad, NM 88220</li> </ul>	TX (210) 509-3334       Page_         X (806)794-1296       Page_         D0) Tampa,FL (813-620-2000)       Work Order Comments         Program: UST/PST PRP Brownfields k       k         State of Project:       Reporting:Level II       PsT/UST k         Deliverables: EDD       ADaPT       C
Project Name:     PLU		32.236.3849			Deliverables: EDD
Project Number:     C/T/G / 4 Z 500     Routine     R       20. Number:     Z/G/-56-97     Rush:       sampler's Name:     Benjamin Belili     Due Date:       Transmettre (C):     Amount of the N/A     Correction Fador       Cooler Classog/Seets:     Vis. No. N/A     Correction Fador       Sample I dentification     Matrix     Sampled     Sampled       Sample I dentification     Matrix     Sampled     Sampled       P(H0.5)     S     3.5./////	roject Name:	PC 28	Turn Around	ANA	LYSIS REQUEST
P.O. Number:     Z. A/2 - 5.6 9.7     Rush:       sampler's Name:     Benjamin Belili     Due Date:       SAMPLE RECEIPT     Temp Blank     Yes_No     Wel loc:     Yes_No       Received intaat:     Date     Total Containers     Received intact:       Sample Gualdoty Seals:     Yes_No     Nu     Correction Factor       Collect Custody Seals:     Yes_No     Nu     Total Containers       Sample Gualdoty Seals:     Yes_No     Nu     Date       Sample Gualdoty Seals:     Yes_No     Nu     Total Containers       PH-0.5     S. S. J. J.     J. J.     Social Containers       PH-0.5     S. S. J. J.     J. J.     Yes_No       PH-0.5     S. S. J. J.     J. J.     Yes_No       PH-0.5     S. S. J. J.     Yes_No     Yes_No       PH-0.5     S. S. J. J.     Yes_No     Yes_No       Correction Factor     Total Containers     Total Containers       Correction Factor     Total Containers     Processource       Correction Factor     Status     Date       Correction Factor     Total Containers     Processource       Correction Factor     Total Containers     Processource       Correction Factor     Total Containers     Processource       Correction Factor     <	roject Number:	19250	Routine		
Sampler Name:     Benjamin Belili       SAMPLE RECEIPT     Temp Blank     Yes, No       Temperature (°C):     Concection Fador:       Cooler Custody Seals:     Yes, No       Recoved Intact:     Concection Fador:       Cooler Custody Seals:     Yes, No       PHOS     Sampled       Sample Identification     Matrix       Sampled Sampled     Sampled       PHOS     Sampled       PHOS     Sampled Introduction       PHOS     Sampled Sampled Sampled       PHOS     Sampled Introduction       PHOS     Sampled Sampled Sampled Containers:       PHOS     Sampled Bandy Sampled Samples Sampled	O. Number:	222-5697			
SAMPLE RECEIPT     Temp Blank     Ves No     Wet loc:     Yss. No       Temperature (*C):		enjamin Belill	Due Date:		
Temperature (*C):     Correction Factor:       Cooler Custody Seals:     Yes     No       Sample Gustody Seals:     Yes     No       Sample Identification     Marrix     Sampled       PHoS     S     Shifty isso       PHoS     Shifty isso     I       V     Jupo     V       PHoS     Shifty isso       PHoS     PhoS	SAMPLE RECEIP	Temp Blank: Yes	Yes No		
Received Intact:     Correction Factor:       Cooler Custory Seates:     Yes     No     NA       Sample Identification     Matrix     Sampled     Sampled       PHOS     S     Shift     Total Containers:       PHOS     S     Shift     ISSo       PHOS     Shift     ISSo     I       V     INCR     Number of Containers:       PHOS     Shift     ISSo       PHOS     IN     ISSo       PHOS     IN     IN	emperature (°C):	- OR MAA			
Cooler Clustody.Seets:       Yes       No.       N.A.       Correction Fador.         Sample Clustody.Seets:       Yes       No.       NA       Total Containers:       of co         Sample Identification       Matrix       Sampled       Sampled       Depth       Number of co         PHoS       5       3.51/b.0       13.55       2'       I       N       Number of co         PHoS       5       3.51/b.0       13.55       2'       I       N       N       N         PHoS       5       3.51/b.0       13.55       2'       I       N       N       N       N         PHoS       5       3.51/b.0       13.55       2'       I       N <td>eceived Intact:</td> <td>ax N</td> <td></td> <td>021)</td> <td></td>	eceived Intact:	ax N		021)	
Sample Custody Seals:     Yes     N/A     Total Containers:     Optimize       Sample Identification     Matrix     Date     Time     Depth       PHOS     Sampled     Sampled     Depth     Pumber       PHOS     Sampled     Sampled     Depth     Number       PHOS     Sampled     Sampled     Depth     Sampled     Depth       PHOS     Sampled     Sampled     Sampled     Depth     Sampled     Depth       PHOS     Sampled     Sampled     Sampled     Depth     Sampled     Effect       PHOS     Sampled     Juppo     Yampled     Yampled     Yampled     Yampled     Yampled       PHOS     Sampled     Juppo     Yampled     Yampled     Yampled     Yampled     Yampled     Yampled       PHOSA     Sampled     Juppo     Yampled     Yampled     Yampled     Yampled     Yampled     Yampled     Yampled       Clickelos     Sampled     Sampled     Sampled     Yampled     Yampled <td>ooler Custody Seats:</td> <td>No N/A</td> <td></td> <td>015) 0=80</td> <td></td>	ooler Custody Seats:	No N/A		015) 0=80	
Sample Identification     Matrix     Sampled     Time Sampled     Depth     E     E     E       PH055     5     3 / 1/0     1355     2     1     X     X     X       PH055     5     3 / 1/0     1355     2     1     X     X     X       PH057     5     3 / 1/0     1355     2     1     X     X     X       PH058     V     1900     4     V     V     V     V     X       PH058     V     V     1900     4     V     V     V     V       PH058     V     V     1900     4     V     V     V     V       PH058     V     V     1900     4     V     V     V     V       Cital 200.7 / 6010     200.8 / 6020:     BCCA     13PPM     Texas 11     All Sb As Ba     Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo       Citricle Method(s) and Metal(s) to be analyzed     TCLP / SPLP 6010:     8CRA Sb As Ba Be Cd Cr Co Cu Fe Pb Mg Mn Mo     Ni Se Ag Ti L       Citricle Method(s) and Metal(s) to be analyzed     TCLP / SPLP 6010:     8CRA Sb As Ba Be Cd Cr Co Cu Fe Mg Mn No     Ni Se Ag Ti L       Vision Sample submitted o Venco, but not analyzed     Texas strates and subcontracores it tassigns standard texas be clear if such lossea	ample Custody Seals:	Yes No N/A		PA 80	
PHOS       S       3       1       1       X       K       K       I       I       K       K       I <td>Sample Identifi</td> <td>Matrix</td> <td>Depth</td> <td>TPH (EI BTEX (I</td> <td></td>	Sample Identifi	Matrix	Depth	TPH (EI BTEX (I	
Cho 5A       J <td>PH</td> <td>5 3/31</td> <td>1320 2%</td> <td>XX</td> <td></td>	PH	5 3/31	1320 2%	XX	
PHD SB       V       V       V V       V	PHI	054			
Total 200.7 / 6010       200.8 / 6020:       BRCRA 13PPM Texas 11       All Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo         Circle Method(s) and Metal(s) to be analyzed       TCLP / SPLP 6010:       BRCRA 13PPM Texas 11       All Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo         rear/ce: 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 fram/ce. Xenco will be lable 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 be trans. Num charge of \$75.00 will be applied to each project and a charge of \$75 for each sample submitted to Xenco, but not analyzed. These terms will be endored unless previously for any losses or expenses incurred by the client if such losses are due to circumstances be trans. Unline will be applied to each project and a charge of \$75.00 will be applied to each project and a 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 endored unless previously for any losses or expenses incurred by the client if such losses are due to circumstances be trans.         Relinquished by: (Signature)       Cate/Time       Relinquished by: (Signature)         Will 20       Cate/Time       Relinquished by: (Signature)       Will 20         Will 20       Cate/Time       Relinquished by: (Signature)       Will 20	6H2	3 V		VVVV	
Total 200.7 / 6010       200.8 / 6020:       BRCRA 13PPM Texas 11 AI Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo         Circle Method(s) and Metal(s) to be analyzed       TCLP / SPLP 6010:       BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U         service. Xenco in this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms farence. 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 are due to circumstances be the 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 are due to circumstances be the 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 are due to circumstances be the 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 the 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 to 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 to 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 are due to circumstances be the 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 the Xenco. A minimum					
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Total 200.7 / 6010       200.8 / 6020:       BRCRA 13PPM Texas 11 AI Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Circle Method(s) and Metal(s) to be analyzed         Circle Method(s) and Metal(s) to be analyzed       TCLP / SPLP 6010:       BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl L         coltex: 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 f 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 be f ferrice. 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 r Age of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously for any losses or expenses incurred by the client if such losses are due to circumstances be for each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously for any losses or expenses incurred by the client if such losses are due to circumstances be for each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously for the to Xenco be the form of the to Xen					
Total 200.7 / 6010       200.8 / 6020:       BRCRA 13PPM Texas 11 AI Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo         Circle Method(s) and Metal(s) to be analyzed       TCLP / SPLP 6010:       BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI L         otice:       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 f 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 be f 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 r Analysed.       Relinquished by: (Signature)       Received by: (Signature)       Date/Time       Relinquished by: (Signature)         W1120       C9478       2       4       4       4	1				
ordice: 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 f 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 be f 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 r         Relinquished by: (Signature)       Received by: (Signature)       Date/Time       Relinquished by: (Signature)         W1120       G448       2       4       4	Total 200.7 / 601( Circle Method(s)	200.8 / 6020: nd Metal(s) to be analyzed	3RCRA 13PPM Texas 11	I Sb As Ba Be B Cd Ca Cr	Cu Fe Pb Mg Mn Mo Ni K Se Mn Mo Ni Se Ag Ti U
Relinquished by: (Signature)     Date/Time     Relinquished by: (Signature)       Sale     Sale     Sale     Sale     Sale	tice: Signature of this doci service. Xenco will be liab Xenco. A minimum charge	ument and reinquishment of samples con ble only for the cost of samples and shall n e of \$75.00 will be applied to each project a	stitutes a valid purchase order from clie ot assume any responsibility for any lo nd a charge of \$5 for each sample sub	ent company to Xenco, its affiliates and subcor sses or expenses incurred by the client if such mitted to Xenco, but not analyzed. These terms	ntractors. It assigns standard terms and conditions n losses are due to circumstances beyond the control s will be enforced unless previously negotiated.
IS Sall har Thalk 4/11/20 0948	Relinquished by: (S			Date/Time Relinquishe	ed by: (Signature) Received by: (Signature)
	Ja Sec	har Palle	41	3440	70



### **Inter-Office Shipment**

Page 1 of 1

### IOS Number 61358

Lab# From: Carlsbad

Lab# To: Midland

Date/Time: 04/01/20 14:01

Created by: Elizabeth Mcclellan

**Delivery Priority:** 

Air Bill No.:

Please send report to: Jessica Kramer

Address: 1089 N Canal Street

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	РМ	Analytes	Sign
657559-001	S	FS06	03/31/20 09:20	SW8015MOD_NM	TPH by SW8015 Mod	04/07/20	04/14/20	JKR	GRO-DRO PHCC10C28 PI	
657559-002	S	FS07	03/31/20 09:40	SW8015MOD_NM	TPH by SW8015 Mod	04/07/20	04/14/20	JKR	GRO-DRO PHCC10C28 PH	
657559-003	s	FS08	03/31/20 10:00	SW8015MOD_NM	TPH by SW8015 Mod	04/07/20	04/14/20	JKR	GRO-DRO PHCC10C28 PI	
657559-004	s	FS09	03/31/20 10:10	SW8015MOD_NM	TPH by SW8015 Mod	04/07/20	04/14/20	JKR	GRO-DRO PHCC10C28 PI	
657559-005	s	SW01	03/31/20 12:10	SW8015MOD_NM	TPH by SW8015 Mod	04/07/20	04/14/20	JKR	GRO-DRO PHCC10C28 PI	
657559-006	s	SW02	03/31/20 12:30	SW8015MOD_NM	TPH by SW8015 Mod	04/07/20	04/14/20	JKR	GRO-DRO PHCC10C28 PI	
657559-007	S	SW03	03/31/20 12:45	SW8015MOD_NM	TPH by SW8015 Mod	04/07/20	04/14/20	JKR	GRO-DRO PHCC10C28 PI	
657559-008	S	PH04	03/31/20 13:00	SW8015MOD_NM	TPH by SW8015 Mod	04/07/20	04/14/20	JKR	GRO-DRO PHCC10C28 PI	
657559-009	s	PH04A	03/31/20 13:20	SW8015MOD_NM	TPH by SW8015 Mod	04/07/20	04/14/20	JKR	GRO-DRO PHCC10C28 PI	
657559-010	S	PH04B	03/31/20 13:30	SW8015MOD_NM	TPH by SW8015 Mod	04/07/20	04/14/20	JKR	GRO-DRO PHCC10C28 PI	
657559-011	s	PH05	03/31/20 13:50	SW8015MOD_NM	TPH by SW8015 Mod	04/07/20	04/14/20	JKR	GRO-DRO PHCC10C28 PI	
657559-012	S	PH05A	03/31/20 14:00	SW8015MOD_NM	TPH by SW8015 Mod	04/07/20	04/14/20	JKR	GRO-DRO PHCC10C28 PI	
657559-013	S	PH05B	03/31/20 14:20	SW8015MOD_NM	TPH by SW8015 Mod	04/07/20	04/14/20	JKR	GRO-DRO PHCC10C28 PI	

Inter Office Shipment or Sample Comments:

Relinquished By:

Elizabeth McClellan

Date Relinquished: 04/01/2020

Received By:

Brianna Teel

Date Received:

Cooler Temperature:

### **XENCO** Laboratories

#### LABORATORIES Inter Office Report- Sample Receipt Checklist

Sent To: Mic IOS #: 61358			Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Temperature Measuring device used :			
			•	0		
Sent By:	Elizabeth McClellan	Date Sent:	04/01/2020 02:01 PM			
Received By	<i>'</i> :	Date Received	d:			
		Sample R	eceipt Checklist		Comments	
#1 *Tempe	rature of cooler(s)?					
#2 *Shippin	ng container in good condi	tion?		Yes		
#3 *Sample	es received with appropria	te temperature?		Yes		
#4 *Custod	y Seals intact on shipping	container/ cooler?		Yes		
#5 *Custod	y Seals Signed and dated	for Containers/coo	blers	Yes		
#6 *IOS pre	esent?			Yes		
#7 Any mis	sing/extra samples?			Yes		
#8 IOS agre	ees with sample label(s)/n	natrix?		Yes		
#9 Sample	matrix/ properties agree w	vith IOS?		Yes		
#10 Sample	es in proper container/ bot	tle?		Yes		
#11 Sample	es properly preserved?			Yes		
#12 Sample	e container(s) intact?			Yes		
#13 Sufficient sample amount for indicated test(s)? Yes						
#14 All sam	nples received within hold	time?		Yes		
* Must be co	ompleted for after-hours	delivery of samp	les prior to placing in t	he refrigerator		
NonConform	ance:					

**Corrective Action Taken:** 

**Nonconformance Documentation** 

Contact:

Contacted by :

Date:

Checklist reviewed by:

Date: \_\_\_\_\_\_ Brinne The

### **XENCO** Laboratories

### Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature Range: 0 - 6 degC			
Date/ Time Received: 04.01.2020 10.10.00 AM	Air and Metal samples Acceptable Range: Ambient			
Work Order #: 657559	Temperature Measuring device used : T-NM-007			
Sample Recei	ot Checklist Comments			
#1 *Temperature of cooler(s)?	1			
#2 *Shipping container in good condition?	Yes			
#3 *Samples received on ice?	Yes			
#4 *Custody Seals intact on shipping container/ cooler?	Yes			
#5 Custody Seals intact on sample bottles?	Yes			
#6*Custody Seals Signed and dated?	Yes			
#7 *Chain of Custody present?	Yes			
#8 Any missing/extra samples?	Νο			
#9 Chain of Custody signed when relinquished/ received?	Yes			
#10 Chain of Custody agrees with sample labels/matrix?	Yes			
#11 Container label(s) legible and intact?	Yes			
#12 Samples in proper container/ bottle?	Yes			
#13 Samples properly preserved?	Yes			
#14 Sample container(s) intact?	Yes			
#15 Sufficient sample amount for indicated test(s)?	Yes			
#16 All samples received within hold time?	Yes			
#17 Subcontract of sample(s)?	Yes TPH subbed to Midland.			
#18 Water VOC samples have zero headspace?	Ν/Α			

#### \* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Checklist reviewed by: Jessica Kramer

Date: 04.01.2020

Jessica Kramer

Date: 04.02.2020

CONDITIONS

Action 13013

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 <u>District IV</u> 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 OF APPROVAL

	OGRID:	Action Number:	Action Type:		
XTO ENERGY, INC 6401 Holiday Hill Road	5380	13013	C-141		
Building #5 Midland, TX79707					
OCD Reviewer	Condition				
ceads	None				