State of New Mexico
Oil Conservation Division

Incident ID	nAPP2220632306
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?	20 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2220632306
District RP	
Facility ID	
Application ID	

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

Printed Name: Dale Woodall

Title: Environmental Professional

Signature: Dale Woodall

Date: 10-11-2022

email: dale.woodall@dvn.com

Telephone: 405-318-4697

OCD Only

Received by: _____

Date: _____

Incident ID	nAPP2220632306
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Dale Woodall

Title: Environmental Professional

Signature: Dale Woodall

Date: 10/11/2022

email: dale.woodall@dvn.ocm

Telephone: 918-491-4352

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

CLOSURE REQUEST

DEVON ENERGY COMPANY

Created for submission to New Mexico Oil Conservation Division on 10/11/2022

ASHLEY GIOVENGO
Project Environmental Scientist

ENERGIZING AMERICA

October 11, 2022

Bradford Billings, Robert Hamlet, Jennifer Nobui, and/or Nelson Velez
State of New Mexico
Energy, Minerals, and Natural Resources
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210

RE: DEFERRAL REQUEST

COMPANY	Devon Energy
LOCATION	LVP SWD #001
API	30-015-42234
PLSS	Unit I Sec 04 T23S R28E
GPS	32.33347222, -104.0851388
INCIDENT ID	nAPP2220632306

BACKGROUND

Wescom, Inc., hereafter referred to as Wescom, has prepared this Closure Request on behalf of Devon Energy Company, hereafter referred to as Devon, regarding the release at the LVP SWD #001 (Site) located in Unit I, Section 04, Township 23 South and Range 28 East in Eddy County, New Mexico. The GPS coordinates are as follows: North 32.33347222 and West -104.0851388. Surface owner of the Site is Khody Land & Minerals Company.

On December 01, 2021, a power outage occurred which caused a produced water tank to overflow inside the lined secondary containment. The volume of the tank overflow was 1000 barrels (bbls) of produced water. A total of 998 bbls was recovered from inside the containment. On August 1, 2022, Wescom inspected the lined secondary containment, and found the integrity of the liner floor to be intact. No sign of release was found within lined containment floor, but 13 potential points of release in the containment wall were noted for repair. Wescom personnel returned to the Site on August 16, 2022, to oversee the removal of impacted soils and to conduct confirmation sampling.

SURFACE & GROUND WATER

The New Mexico Office of the State Engineer (OSE) records indicates the nearest depth to groundwater measurement is 20 feet below ground surface (bgs) and is 0.30 miles Southwest of the Site. Additional wells

in the area support the data in the nearest water measurement. No playas or lakes are located within a one-mile radius of this Site (Attachment C).

KARST POTENTIAL

According to data from the Bureau of Land Management, this Site is located within medium karst potential as shown in Attachment D. There are no indicators of karst around the Site surface.

TARGET REMEDIAL LEVELS

The target cleanup levels are determined using the NMOCD Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC, inserted below) including karst guidelines from the Bureau of Land Management. The applicable Recommended Remediation Action Levels (RRALs) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and xylene (BTEX) and 100 ppm Total Petroleum Hydrocarbons (TPH). Characterization of the vertical and horizontal extent of chloride concentration in the soil to a level of 600 mg/kg (ppm) is also required.

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
LVP SWD #001 — 32.33347222, -104.0851388						
Depth to Groundwater		**Closure Criteria (unites in mg/kg)**				
		Chloride * numberical limit or background, whichever is greater	TPH	GRO+DRO	BTEX	Benzene
Based on high karst potential		600	100		50	10
less than 50 ft bgs	**20 Ft**	**600**	**100**		**50**	**10**
51 ft to 100 ft bgs		10000	2500	1000	50	10
greater than 100 ft bgs		20000	2500	1000	50	10
Surface Water	**Yes or No**	**If yes, then**				
< 300 feet from continuously flowing watercourse or other significant watercourse?	No					
< 200 feet from lakebed, sinkhole or playa lake	No					
Water Well or Water Source						
< 500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No					
< 1000 feet from fresh water well or spring?	No					
Human and Other Areas						
< 300 feet from an occupied permanent residence, school, hospital, institution or church?	No					
Within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
< 100 feet from wetland?	No					
Within area overlying a subsurface mine?	No					
Within an unstable area?	No					
Within a 100-year floodplan?	No					

Table: Closure Criteria Statistics

REMEDIATION ACTIVITIES

Wescom personnel conducted a liner inspection on August 1, 2022, and 13 potential release points were identified along the North, South and West containment walls. Eight cracks or liner separations were identified along the South containment wall and an additional four cracks were found along the North containment wall. Wescom personnel identified one additional crack along the West containment wall. Photo documentation of potential liner compromises are shown in Attachment B.

Beginning on August 16, 2022, Wescom personnel arrived onsite to oversee the removal of impacted soil. A background sample, BG01, was collected 50 feet to the West of the tank battery containment, as shown in Figure 1. Wescom personnel completed soil removal and confirmation sampling on August 22, 2022. A backhoe and hand crews were used to remove approximately 100 cubic yards of contaminated soil from the spill area. Impacted material from the spill area was hauled to an approved disposal facility.

Wescom personnel collected a total of eight composite confirmation samples over the five-day sampling and excavation period. Confirmation samples one through five (CONF01-CONF05) were collected from spill area located along the South containment wall and CONF06 was collected from the spill area along the West containment wall. Confirmation samples seven and eight (CONF07 and CONF08) were collected from the spill area along the North containment wall. All the confirmation samples were below the applicable RRALs for the Site as shown in Table 1. All soil samples were properly packaged, preserved, and transported to Eurofins by chain of custody, and analyzed for Total Petroleum Hydrocarbons, or TPH, —Method 8015D, BTEX—Method 8021B, and Chlorides—Method 300.0. Confirmation sample locations are presented in Figure 1 and laboratory analytical reports are included in Attachment E.

The required 48-hour liner inspection notification email was sent on July 28, 2022, and the 48-hour confirmation sampling notifications were sent on August 15, 2022, and August 22, 2022, to Bradford Billings, Victoria Venegas, Robert Hamlet, and Mike Bratcher with the NMOCD in Santa Fe, New Mexico (see Attachments F and G).

REQUEST FOR CLOSURE

On behalf of Devon, Wescom hereby requests closure for the release associated with incident number nAPP2220632306 based on the logic below.

- All confirmation areas and samples are below applicable RRALs for the Site.
- Impacted material was removed and transported to an approved disposal facility.
- The existing containment is intact. Liner gaps have been repaired by Triple T Linings, LLC. The liner will act as a barrier for potential releases inside the secondary containment.

If you have any questions or comments, please do not hesitate to call Ms. Ashley Giovengo at (505) 382-1211.

Sincerely,

Wescom, Inc.

Ashley Giovengo
Project Environmental Scientist

cc: Dale Woodall, Devon Energy

Bradford Billings, NMOCD

Robert Hamlet, NMOCD

Jennifer Nobui, NMOCD

Nelson Velez, NMOCD

REFERENCE MATERIALS

FIGURES

FIGURE 1. Confirmation Samples

TABLES

TABLE 1. Laboratory Analysis Results: Confirmation Samples

ATTACHMENTS

ATTACHMENT A. C-141
ATTACHMENT B. Site Photos
ATTACHMENT C. Closure Criteria Supporting Documents
ATTACHMENT D. Karst Map
ATTACHMENT E. Eurofins Environment Testing America Laboratory Analysis Reports
ATTACHMENT F. 48-hour Liner Inspection Notification Email
ATTACHMENT G. 48-hour Confirmation Sampling Notification Email

FIGURE 1

Confirmation Samples

Laboratory Analysis Results									
Sample ID	Depth	BTEX	TPH	Cl	Sample ID	Depth	BTEX	TPH	Cl
BG01	1	ND	ND	12.7	CONF05	2	ND	ND	528
CONF01 Wall	1	ND	ND	315	CONF06	1.5	ND	ND	495
CONF02	3	ND	ND	390	CONF07	4	ND	ND	412
CONF03	3	ND	ND	366	CONF08	4	ND	ND	403
CONF04	3	ND	ND	63.9					

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

0 20 40 60 80 Feet

FIGURE 1. CONFIRMATION SAMPLING

LVP SWD #001
Incident ID: nAPP2220632306
API: 30-015-42234
GPS Coordinates: 32.33347222, -104.0851388
Eddy County, New Mexico
Devon Energy

LEGEND

Confirmation Sample Locations

Spill Area

N

WESCOM

TABLE 1

Laboratory Analysis Results: Confirmation Samples

LVP SWD #001 07.23.2022 | nAPP2220632306

Devon Energy| 09.27.2022

Table 1. Laboratory Analysis Results: Confirmation Samples

Sample Description			Petroleum Hydrocarbons			Inorganic
			Volatile		Extractable	
Sample ID	Depth (ft.)	Date	Benzene (mk/kg)	BTEX (total) (mk/kg)	TPH (mk/kg)	Chloride (mk/kg)
Closure Criteria			**10**	**50**	**100**	**600**
BG01	1	8/19/2022	ND	ND	ND	12.7
CONF01 Wall	1	8/17/2022	ND	ND	ND	315
CONF02	3	8/17/2022	ND	ND	ND	390
CONF03	3	8/17/2022	ND	ND	ND	366
CONF04	3	8/17/2022	ND	ND	ND	63.9
CONF05	2	8/18/2022	ND	ND	ND	528
CONF06	1.5	8/18/2022	ND	ND	ND	495
CONF07	4	8/22/2022	ND	ND	ND	412
CONF08	4	8/22/2022	ND	ND	ND	403

ABBREVIATIONS

BTEX — Benzene, Toluene, Ethylene, Xylene

DRO — Diesel Range Organics

ft. — Feet

TPH — Total Petroleum Hydrocarbons

GRO — Gasoline Range Organics

ND — Non-detect

mg/kg — Milligrams per Kilogram

Notes

Bold Red - Results are above closure criteria

Gray Highlight - Background Samples

ATTACHMENT A

C-141

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # *(assigned by OCD)*
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# *(if applicable)*

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

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:

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: _____ Title: _____

Signature: Dale Woodall Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: 07/29/2022

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2220632306
District RP	
Facility ID	
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Site Assessment/Characterization

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Did this release impact groundwater or surface water?	☐ Yes ☒ No
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Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2220632306
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Printed Name: Dale Woodall

Title: Environmental Professional

Signature: Dale Woodall

Date: 10/11/2022

email: dale.woodall@dvn.com

Telephone: 405-318-4697

OCD Only

Received by: Jocelyn Harimon

Date: 12/30/2022

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2220632306
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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Printed Name: Dale Woodall Title: Environmental Professional

Signature: Dale Woodall Date: 10-11-2022

email: dale.woodall@dvn.ocm Telephone: 918-491-4352

OCD Only

Received by: Jocelyn Harimon Date: 12/30/2022

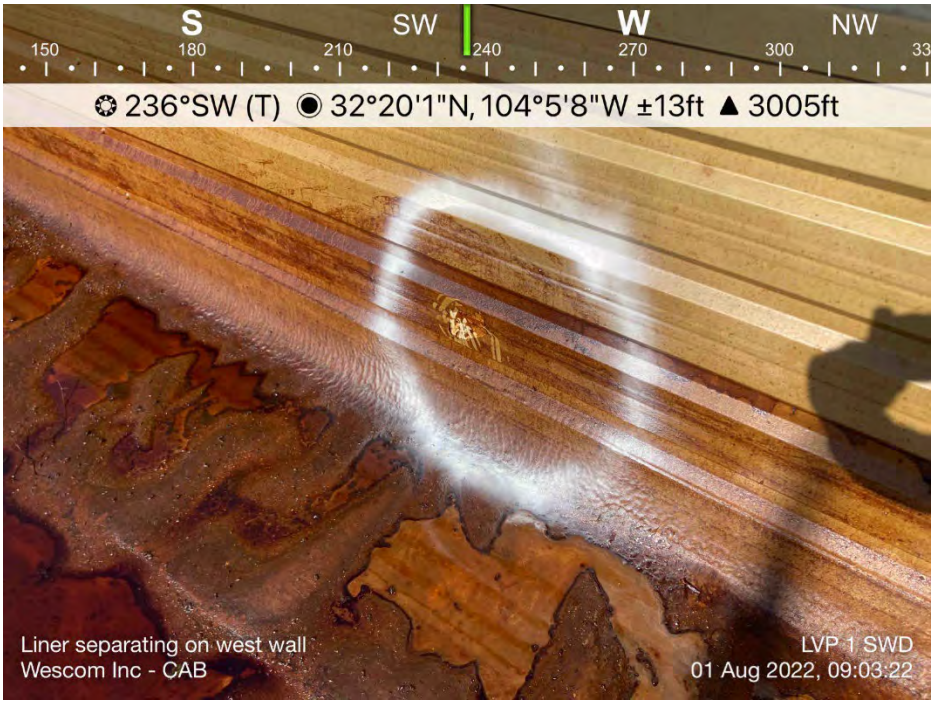
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance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

Closure Approved by: Date: 12/30/2022

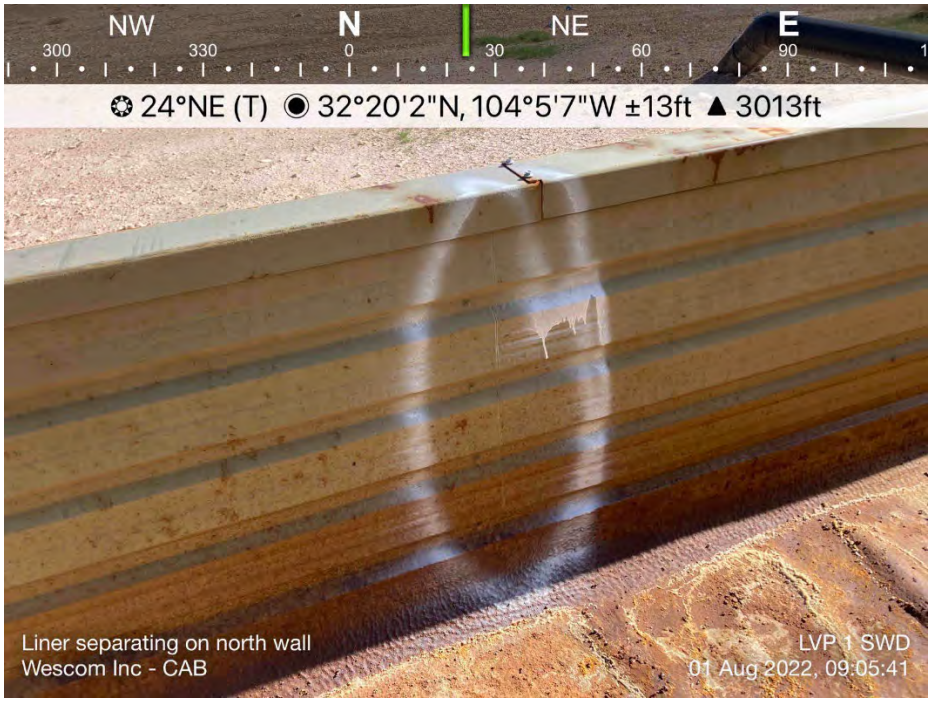
Printed Name: Jocelyn Harimon Title: Environmental Specialist

ATTACHMENT B

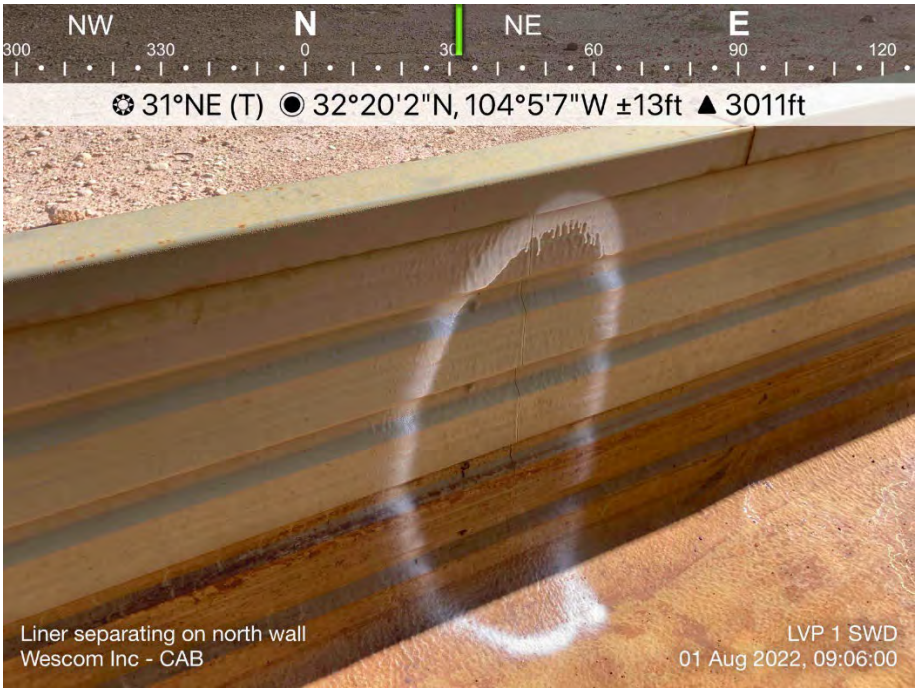
Site Photos



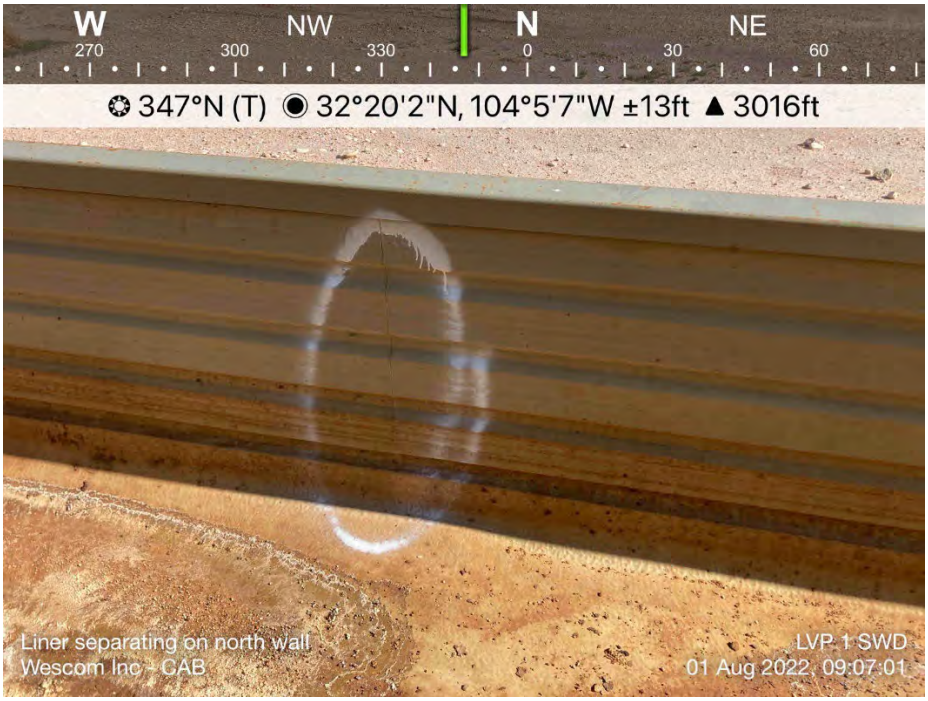
Liner peeling on West Wall



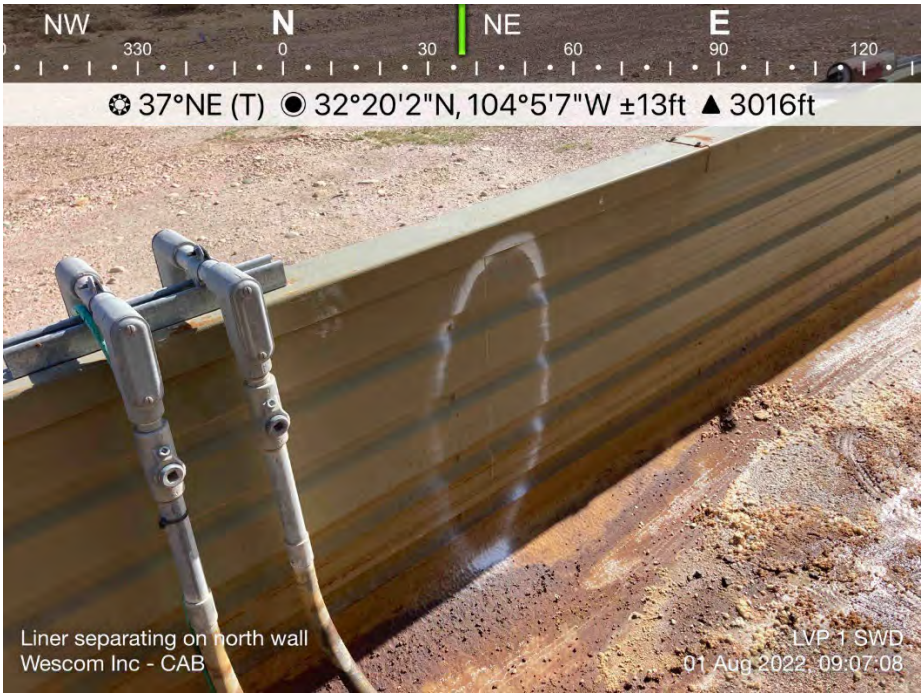
Crack in Containment Wall – North Side



Crack in Containment Wall – North Wall



Crack in Containment Wall – North Wall



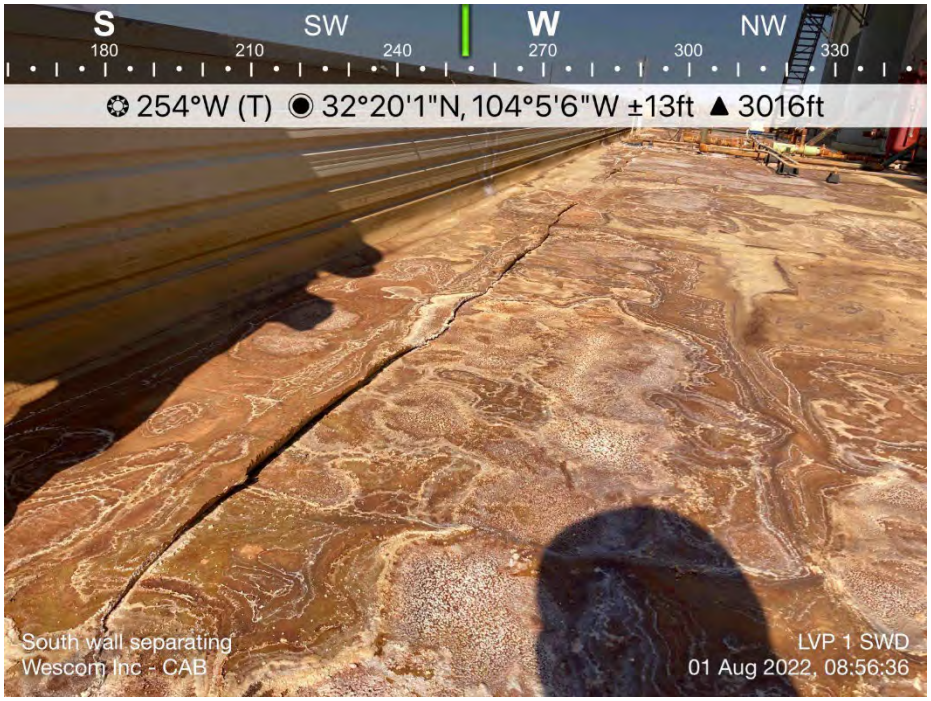
Crack in Containment Wall – North Wall

Crack in Containment Wall – South Wall

Crack in Containment Wall – South Wall

Crack in Containment Wall – Southeast Corner

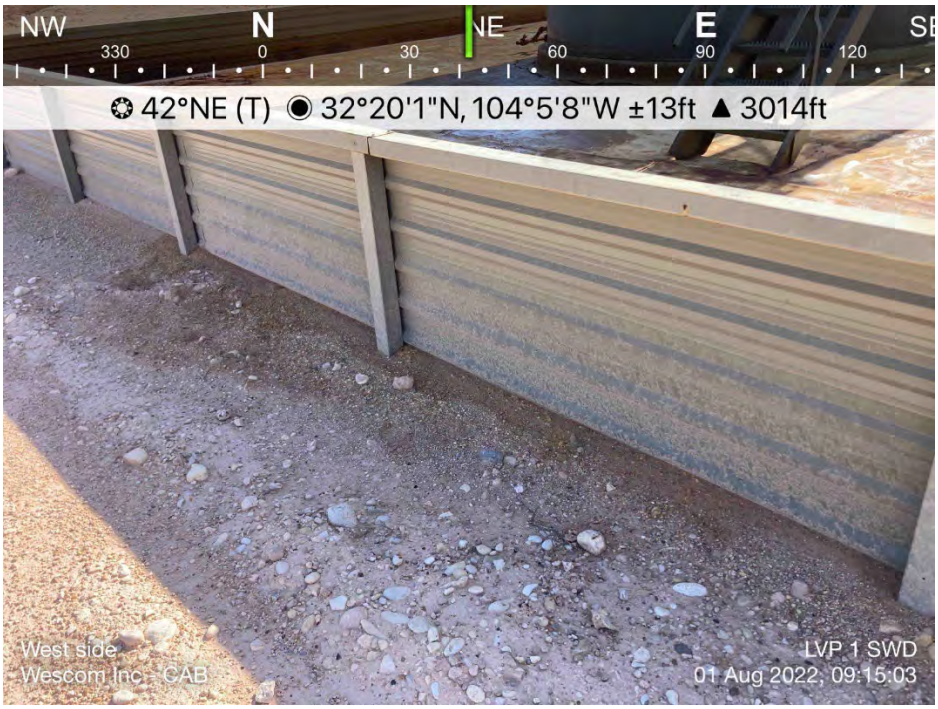
Liner Separating on South Wall



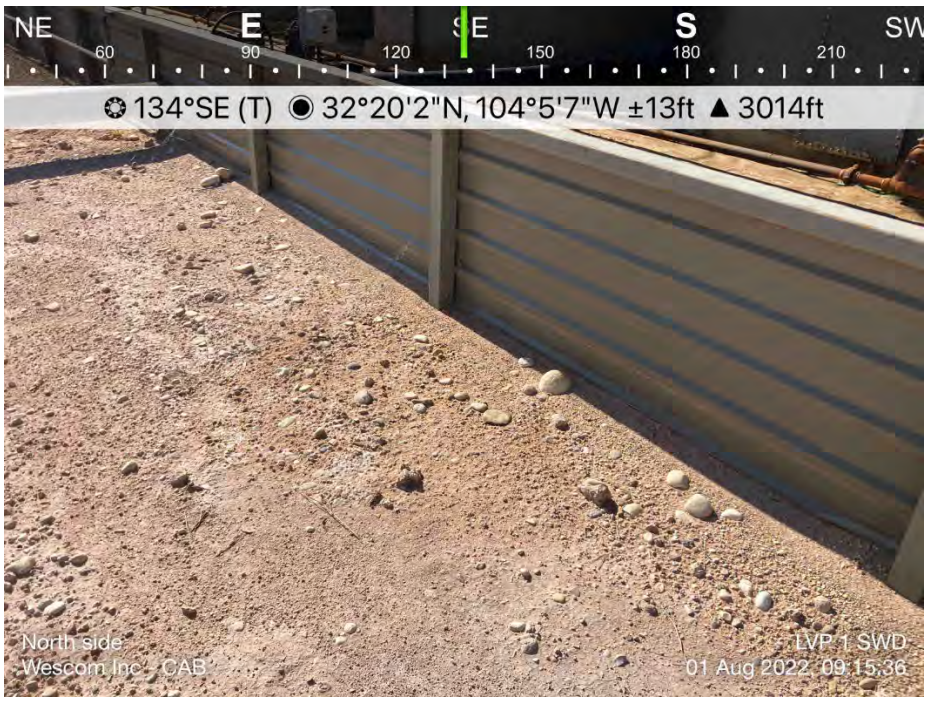
Liner Separating on South side Floor

Contamination on South Side of Containment

Contamination on Southeast Side of Containment



Contamination on West Side of Containment



Contamination on Northwest Side of Containment

Contamination on North Side of Containment

Potholing to Find Ground Wire – South Side

Excavation of Spill Area – South Side

Excavation of Spill Area – South Side

Contaminated Soil

Excavation of Spill Area – South Side (CONF01Wall – CONF04)

Excavation of Spill Area – Southeast Side (CONF05)

Excavation of Spill Area – West Side (CONF06)

Excavation of Spill Area – Northwest Side (CONF07)

Excavation of Spill Area – North Side (CONF08)

Hand Digging Over Ground Wire – North Side

Excavation of Spill Area – North Side (CONF08)

Excavation of Spill Area – Northwest Side (CONF07)

Contaminated Soil Removed

ATTACHMENT C

Closure Criteria Supporting Documents

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04415 POD1	4	1	4	04	23S	28E	585657	3577591

Driller License: 1789 **Driller Company:** HRL COMPLIANCE SOLUTIONS, INC
Driller Name: MARK MUMBY

Drill Start Date: 04/01/2020 **Drill Finish Date:** 04/01/2020 **Plug Date:**
Log File Date: 05/26/2020 **PCW Rcv Date:** **Source:** Shallow
Pump Type: **Pipe Discharge Size:** **Estimated Yield:**
Casing Size: 2.00 **Depth Well:** 25 feet **Depth Water:** 20 feet

Water Bearing Stratifications:	Top	Bottom	Description
	20	21	Sandstone/Gravel/Conglomerate
	21	25	Other/Unknown

Casing Perforations:	Top	Bottom
	15	25

New Mexico Office of the State Engineer

Wells with Well Log Information

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

POD Number	Code	POD Subbasin	County	Source	q 64	q 16	q 4	Sec	Twn	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
C 04415 POD1		CUB	ED	Shallow	4	1	4	04	23S	28E	585657	3577591	488	04/01/2020	04/01/2020	05/26/2020	25	20	MARK MUMBY	1789
C 04415 POD5		CUB	ED		4	1	4	04	23S	28E	585652	3577605	488	04/01/2020	04/01/2020	05/26/2020	10		MARK MUMBY	1789
C 04415 POD6		CUB	ED		4	1	4	04	23S	28E	585652	3577605	488	04/01/2020	04/01/2020	05/26/2020	10		MARK MUMBY	1789
C 04415 POD8		CUB	ED	Shallow	4	1	4	04	23S	28E	585656	3577583	492	07/15/2021	07/16/2021	10/05/2021	27	23	HAMMER, RODNEY S.WARDENER	1186
C 04415 POD2		CUB	ED		4	1	4	04	23S	28E	585653	3577570	500	04/01/2020	04/01/2020	05/26/2020	12		MARK MUMBY	1789
C 04415 POD3		CUB	ED		4	1	4	04	23S	28E	585645	3577552	515	04/01/2020	04/01/2020	05/26/2020	11		MARK MUMBY	1789
C 04415 POD4		CUB	ED		3	1	4	04	23S	28E	585628	3577575	521	04/01/2020	04/01/2020	05/26/2020	11		MARK MUMBY	1789
C 04415 POD7		CUB	ED	Shallow	3	1	4	04	23S	28E	585628	3577518	545	07/15/2021	07/16/2021	10/05/2021	55	38	HAMMER, RODNEY S.WARDENER	1186
C 00800		C	ED	Shallow		4	2	09	23S	28E	586050	3576479*	1296	11/05/1957	11/10/1957	12/09/1957	200	30	WILLARD BEATY	62
C 03056		C	ED	Shallow	3	3	3	04	23S	28E	584772	3577226	1446	07/01/2004	07/02/2004	07/12/2004	60	31		1348
C 03800 POD1		C	ED	Shallow	3	3	2	05	23S	28E	583927	3577958	2191	12/01/2014	12/08/2014	10/15/2019	97	36	MALEY, JASONASTR.L.NER	1690
C 00326		CUB	ED	Shallow	3	3	3	10	23S	28E	586358	3575572*	2216	10/01/1991	10/19/1991	11/01/1991	130	19	MIKE CAMPBELL	1259
C 00326 CLW196238	O	CUB	ED	Shallow	3	3	3	10	23S	28E	586358	3575572*	2216	07/23/1952	08/06/1952	09/03/1952	196	25	J.F. KIMMELL	
C 00512		CUB	ED	Shallow	4	1	1	11	23S	28E	588188	3576775	2305	05/04/1975	05/20/1975	05/11/1976	175	15	BRININSTOOL, M.D.	24
C 00512 EXPL	O	CUB	ED	Shallow			1	11	23S	28E	588272	3576703*	2412	07/12/1971	07/17/1971	10/15/1971	200	16	BRININSTOOL, M.D.	24
C 03762 POD2		CUB	ED	Shallow	4	4	2	17	23S	28E	584893	3575598	2493	08/11/2014	08/11/2014	08/22/2014	40	30	BLANCO, TIMOTHY	1070
C 00315		CUB	ED	Shallow	3	1	3	11	23S	28E	587973	3575995*	2576	06/16/1952	06/20/1952	01/06/1953	100	45	J.F. KIMMELL	
C 04216 POD2		CUB	ED	Shallow	1	4	1	11	23S	28E	588465	3576555	2651	04/04/2018	04/04/2018	04/18/2018	20	10	ATKINS, JACKIE D.	1249
C 04216 POD1		CUB	ED	Shallow	2	4	1	11	23S	28E	588488	3576534	2682	04/04/2018	04/04/2018	04/18/2018	20	10	ATKINS, JACKIE D.	1249
C 04216 POD3		CUB	ED	Shallow	1	4	1	11	23S	28E	588501	3576556	2683	04/04/2018	04/04/2018	04/18/2018	23	13	ATKINS, JACKIE D.	1249
C 04216 POD4		CUB	ED	Shallow	2	4	1	11	23S	28E	588499	3576513	2701	04/04/2018	04/04/2018	04/18/2018	20	10	ATKINS, JACKIE D.	1249
C 00311		C	ED	Shallow	4	2	1	16	23S	28E	585353	3575152*	2729	06/23/1952	07/05/1952	07/17/1952	163	55	HOWARD HEMLER	24
C 04451 POD1		C	ED	Shallow	4	4	4	10	23S	28E	587833	3575521	2836	09/28/2020	10/01/2020	10/14/2020	120	57	HAMMOND, MARKDALENAIGENER	1400
C 00504		CUB	ED	Shallow	3	1	4	08	23S	28E	583939	3575949*	2836	02/27/1954	03/15/1954	05/12/1954	230	40	SMITH, SAM S.	108
C 00036		CUB	ED	Shallow	3	3	2	32	22S	28E	583916	3579583*	2843	08/02/1948	10/13/1948	11/29/1948	106			
C 00236		C	ED	Shallow	2	2	3	32	22S	28E	583723	3579372*	2872		08/07/1950	01/19/1953	80	39	KIMMEL, J.F.	153
C 00235		C	ED	Shallow		2	2	15	23S	28E	587676	3575280*	2945	07/21/1950	07/23/1950	01/05/1953	160		KIMMEL, J.F.	153
C 03184		C	ED	Shallow	2	3	3	32	22S	28E	583327	3578962*	3025	09/29/2006	10/02/2006	12/13/2006	157	30		1348
C 03455 POD1		C	ED	Shallow	3	3	1	05	23S	28E	583040	3577899	3072	08/13/2011	08/13/2011	08/30/2011	57	22	HOPPER, HERSHEL ALAN (LD)	1632
C 03762 POD3		CUB	ED	Shallow	4	2	2	16	23S	28E	586203	3574642	3133	08/11/2014	08/11/2014	08/22/2014	40	30	BLANCO, TIMOTHY	1070
C 00035		CUB	ED	Shallow	3	3	3	32	22S	28E	583127	3578762*	3142	06/01/1948	06/10/1948	07/15/1948	146		J.F. KIMMELL	
C 00212		CUB	ED	Shallow	3	3	3	32	22S	28E	583127	3578762*	3142	06/04/1957	03/31/1947	06/28/1957	146	30	EXISTING WELL	28
C 01779		C	ED	Shallow	3	1	1	08	23S	28E	583128	3576749*	3153	08/29/1980	08/30/1980	09/05/1980	178	50	TAYLOR, BILL	655
C 03469 POD1		CUB	ED	Shallow	3	4	3	11	23S	28E	588374	3575538	3181	01/24/2011	01/25/2011	05/20/2011	68	38	SCARBOROUGH, LANE (LD)	1188
C 02141 CLW468812	O	C	ED	Shallow	2	4	4	06	23S	28E	582925	3577348*	3213	05/01/1988	05/09/1988	05/16/1988	65	36	EDGAR W. MAGBY	969
C 00309		CUB	ED	Shallow	1	3	1	08	23S	28E	583129	3576544*	3225	12/01/1952	12/11/1952	03/17/1953	165	16	SAM S. SMITH	108
C 02243		C	ED	Shallow	4	4	4	06	23S	28E	582925	3577148*	3246	11/25/1990	11/29/1992	12/01/1992	60	40	EDGAR MAGBY	969
C 00213		CUB	ED	Shallow	1	4	1	32	22S	28E	583517	3579775*	3274	02/04/1965	02/20/1965	03/18/1965	200	35	A. F. SMITH	28
C 01634		C	ED	Shallow		2	4	06	23S	28E	582825	3577653*	3287	12/12/1975	02/03/1976	02/05/1976	185	85	TAYLOR, W.H. SR.	604
C 01699		C	ED	Shallow		2	4	06	23S	28E	582825	3577653*	3287	06/20/1977	07/15/1977	08/22/1977	90	65		30
C 02503		C	ED	Shallow		4	2	15	23S	28E	587679	3574874*	3297	08/27/1996	08/29/1996	09/03/1996	70	12	OSBOURN, FLOYD MILTON	353
C 03094		C	ED	Shallow	4	3	1	32	22S	28E	583317	3579567*	3318	11/24/2004	11/28/2004	12/06/2004	138	53		1348
C 02141		C	ED	Shallow		4	4	06	23S	28E	582826	3577249*	3325	05/01/1988	05/09/1988	12/01/1992	65	36	EDGAR W. MAGBY	969
C 02243 CLW469222	O	C	ED	Shallow		4	4	06	23S	28E	582826	3577249*	3325	11/25/1990	11/29/1992	12/01/1992	60	40	EDGAR MAGBY	969
C 00616		CUB	ED	Shallow	1	3	1	14	23S	28E	587982	3574978*	3365	10/22/1980	12/05/1980	12/09/1980	120	30	BRININSTOOL, M.D.	842
C 00269		C	ED	Shallow	4	4	2	15	23S	28E	587778	3574773*	3433	03/01/1958	03/30/1958	04/08/1958	240	35	FREEK, R.H.	212
C 00269 CLW199753	O	C	ED	Shallow	4	4	2	15	23S	28E	587778	3574773*	3433	03/01/1958	03/30/1958	04/08/1958	240	35	R.H. FREEK	212
C 00520		C	ED	Shallow	1	1	3	16	23S	28E	584754	3574538*	3509	01/12/1954	01/19/1954	03/22/1954	115	33	HOWARD HEMLER	24
C 00521		C	ED	Shallow	1	1	3	16	23S	28E	584754	3574538*	3509	01/03/1954	01/12/1954	03/22/1954	218	33	HOWARD HEMLER	24

C 00958		C	ED	Shallow	2	1	2	06	23S	28E	582517	3578554*	3676	08/01/1961	08/09/1961	09/12/1961	150		HOWARD HEMLER	24
C 02189		C	ED	Shallow	1	1	3	14	23S	28E	587985	3574572*	3711	03/12/1990	03/12/1990	04/20/1990	48	29	NORMAN SPRUILL	803
C 04417 POD1		CUB	ED		4	3	3	36	22S	28E	589736	3578874	3788	03/31/2020	03/31/2020	05/26/2020	55		MARK MUMBY	1789
C 03762 POD1		CUB	ED	Shallow	4	4	2	17	23S	28E	585314	3574066	3793	08/11/2014	08/11/2014	08/22/2014	40	31	BLANCO, TIMOTHY	1070
C 00211		C	ED	Shallow	4	3	3	15	23S	28E	586570	3573949*	3853	06/19/1979	06/20/1979	09/26/1979	89	48	J. W. TOMBLIN	592
C 02846 S		CUB	ED	Shallow	4	4	4	07	23S	28E	582926	3575527*	3897	04/05/2003	04/18/2003	10/08/2003	150	40	BEHUNIN,KEITH	1227
C 03460 POD1		CUB	ED	Shallow	3	1	2	14	23S	28E	588857	3575004	3901	10/08/2010	10/08/2010	10/13/2010	100	38	NORRIS, JOHN D. (LD)	1682
C 04560 POD2		CUB	ED	Shallow	1	3	3	16	23S	28E	584857	3574036	3942	10/26/2021	10/28/2021	11/29/2021	36	25	JAROD MICHALSKY	1800
C 03472 POD1		CUB	ED	Shallow	4	4	4	07	23S	28E	582894	3575479	3950	10/03/2011	10/05/2011	05/01/2012	140	40	JASON MALEY (LD)	1690
C 00128		C	ED	Shallow	2	4	4	15	23S	28E	587783	3574162*	3981	12/24/1952	01/10/1953	04/30/1953	149		SMITH, SAM S.	108
C 01336		C	ED	Shallow	2	1	1	22	23S	28E	586572	3573744*	4056	09/03/1966	09/20/1966	01/26/1967	190	30	HOWARD HEMLER	24
C 01993		C	ED	Shallow		2	3	06	23S	28E	582020	3577643*	4092	11/25/1981	11/27/1981	12/28/1981	164	45	GLENN, CLARK A."CORKY" (LD)	421
C 04418 POD1		CUB	ED		4	2	1	12	23S	28E	590104	3576851	4098	03/31/2020	03/31/2020	05/26/2020	55		MARK MUMBY	1789
C 03040		C	ED	Shallow	4	3	1	31	22S	28E	582254	3579191	4108	03/15/2004	03/17/2004	03/22/2004	72	42		1348
C 02064		C	ED	Shallow		4	3	06	23S	28E	582021	3577238*	4124	09/18/1983	09/25/1983	10/04/1983	90	50	EDGAR W. MAGBY	969
C 01885		C	ED	Shallow		2	2	21	23S	28E	586070	3573640*	4134	12/10/1979	12/17/1979	01/14/1980	104	35	JIM TOMBLIN	592
C 01872		C	ED	Shallow		2	1	22	23S	28E	586878	3573649*	4196	04/07/1980	06/12/1980	07/02/1980	68	48	MORELAND, A.J.	113
C 00058		CUB	ED	Shallow	3	4	3	06	23S	28E	581920	3577137*	4238	08/26/1976	05/06/1948	09/07/1976	185	20	BRININSTOOL, M.D.	24
C 02511		C	ED	Shallow	1	2	1	06	23S	28E	581916	3578550*	4265	03/02/1997	03/03/1997	03/19/1997	60	35		1348
C 00052	O	CUB	ED	Shallow	3	4	4	30	22S	28E	582707	3580371*	4280	03/10/1952	03/26/1952	04/28/1952	208	12	HOWARD HEMLER	24
C 04524 POD1		CUB	ED		1	1	2	01	23S	28E	590452	3578629	4425	04/13/2021	04/14/2021	05/10/2021	55		NOVO OIL & GAS NORTHERN DELAWARE LLC	1456
C 04203 POD1		C	ED	Shallow	2	4	3	07	23S	28E	582148	3575792	4430	02/21/2018	02/22/2018	03/20/2018	200	160	MANN, TRAVIS	1778
C 01253		CUB	ED	Shallow	1	3	1	22	23S	28E	586375	3573338*	4444	05/15/1965	06/04/1965	07/09/1965	179	50	BRININSTOOL, A.M.	410
C 00851		C	ED	Shallow			3	17	23S	28E	583438	3574217*	4449	09/01/1958	09/01/1958	09/30/1958	200	50	W D BRININSTOOL	24
C 02943		C	ED	Shallow	2	1	1	06	23S	28E	581725	3578546*	4452	01/24/2003	01/25/2003	02/10/2003	69	43	TAYLOR, CLINTON E.	1348
C 04389 POD1		C	ED	Shallow	4	2	3	07	23S	28E	582038	3575885	4489	01/22/2020	01/22/2020	02/21/2020	99	70	TAYLOR, CLINTON E.E.ENER	1348
C 01216		CUB	ED	Shallow	4	1	1	13	23S	28E	589801	3575205*	4497	08/05/1964	08/06/1964	09/15/1964	60	45	W.H. BRADY	359
C 04367 POD1		C	ED	Shallow	1	2	3	07	23S	28E	581935	3575983	4543	11/21/2019	11/21/2019	12/02/2019	89	72	TAYLOR, CLINTON E.E.ENER	1348
C 00094 AS	C	CUB	ED	Shallow	1	3	2	22	23S	28E	587183	3573346*	4556	04/23/1976	04/30/1976	05/11/1976	165	40	MURRELL ABBOTT	46
C 04250 POD1		C	ED	Shallow	1	1	1	07	23S	28E	581613	3576868	4587	07/15/2018	07/18/2018	08/14/2018	140	120	TRAVIS MANN	1778
C 02883		CUB	ED	Shallow	1	3	3	06	23S	28E	581526	3577331*	4605	02/20/2002	03/13/2002	03/25/2002	202		HAMMOND, JOHN B.	1227
C 00058 S		CUB	ED	Shallow	3	3	3	06	23S	28E	581526	3577131*	4628	02/20/2002	03/13/2002	05/24/2004	202		HAMMOND, JOHN B.	1227
C 04307 POD1		C	ED	Shallow	2	1	3	07	23S	28E	581737	3576138	4668	02/26/2019	02/27/2019	03/11/2019	92	78	TAYLOR, CLINTON E.	1348
C 01487 CLW201796	O	CUB	ED	Shallow		3	2	22	23S	28E	587284	3573247*	4677	10/26/1974	10/28/1974	12/02/1974	90	30	BARRON, EMMETT	30
C 01487		CUB	ED	Shallow	3	4	1	22	23S	28E	586779	3573142*	4680	12/07/1977	12/22/1977	01/13/1978	150	38	BILL G. TAYLOR, JR.	655
C 01108		C	ED	Shallow	3	2	1	23	23S	28E	588395	3573566*	4788	06/20/1967	12/31/1930	07/06/1967	60	35	BARRON, EMMETT	30
C 01816		C	ED	Shallow	1	3	1	23	23S	28E	587992	3573355*	4803	07/12/1979	07/27/1979	08/01/1979	200	40	BRISTOW, JIM D.	743
C 00716		C	ED	Shallow				21	23S	28E	585471	3573012*	4805	07/25/1956	08/01/1956	08/14/1956	140	69	W.C. MOORE	195
C 04187 POD1		C	ED	Shallow	3	3	1	07	23S	28E	581519	3576251	4836	03/05/2018	03/06/2018	03/26/2018	88	48	CLINTON E TAYLOR	1348
C 00544		C	ED	Shallow	3	3	1	21	23S	28E	584762	3573120*	4845	11/27/1954	11/28/1954	12/13/1954	27		JOLLY, J.R.	171
C 00094		CUB	ED	Shallow	3	4	2	22	23S	28E	587588	3573151*	4854	02/03/1965	02/10/1965	03/21/1967	100	60	EMMETT BARRON	30
C 00094	C	CUB	ED	Shallow	3	4	2	22	23S	28E	587588	3573151*	4854	02/03/1965	02/10/1965	03/21/1967	100	60	EMMETT BARRON	30
C 00094 A	C	CUB	ED	Shallow	3	4	2	22	23S	28E	587588	3573151*	4854	07/18/2002		11/04/2002	166	40	BEHUNIN, KEITH	1227
C 00313		CUB	ED	Shallow	3	3	3	17	23S	28E	583136	3573915*	4872	06/01/1952	06/01/1952	07/07/1952	250	75	HOWARD HEMLER	24
C 04366 POD1		C	ED	Shallow	3	1	3	07	23S	28E	581569	3575977	4884	11/13/2019	11/14/2019	12/02/2019	94	85	TAYLOR, CLINTON E.E.ENER	1348
C 00154		CUB	ED	Shallow	4	2	1	23	23S	28E	588595	3573566*	4887	08/15/1974	08/20/1974	02/11/1975	196	38	HOWARD P. HEMLER	24
C 04539 POD1		CUB	ED		2	4	2	01	23S	28E	591034	3578223	4944	07/14/2021	07/14/2021	10/05/2021	55		HAMMER, RODNEY S.WARDENER	1186
C 01102		C	ED	Shallow		1	2	23	23S	28E	588901	3573672*	4961	12/10/1962	12/21/1962	01/30/1963	100	12	MORELAND, A.J.	113
C 04313 POD1		C	ED	Shallow	4	3	3	07	23S	28E	581677	3575500	4982	04/01/2019	04/02/2019	05/13/2019	99	86	CLINTON E TAYLOR	1348
C 00048		CUB	ED	Shallow	3	3	1	23	23S	28E	587997	3573160	4985	09/01/1976	09/27/1976	09/28/1976	182	75	H. HEMLER	24
C 00048	C	CUB	ED	Shallow	3	3	1	23	23S	28E	587997	3573160	4985	09/01/1976	09/27/1976	09/28/1976	182	75	H. HEMLER	24

Record Count: 100

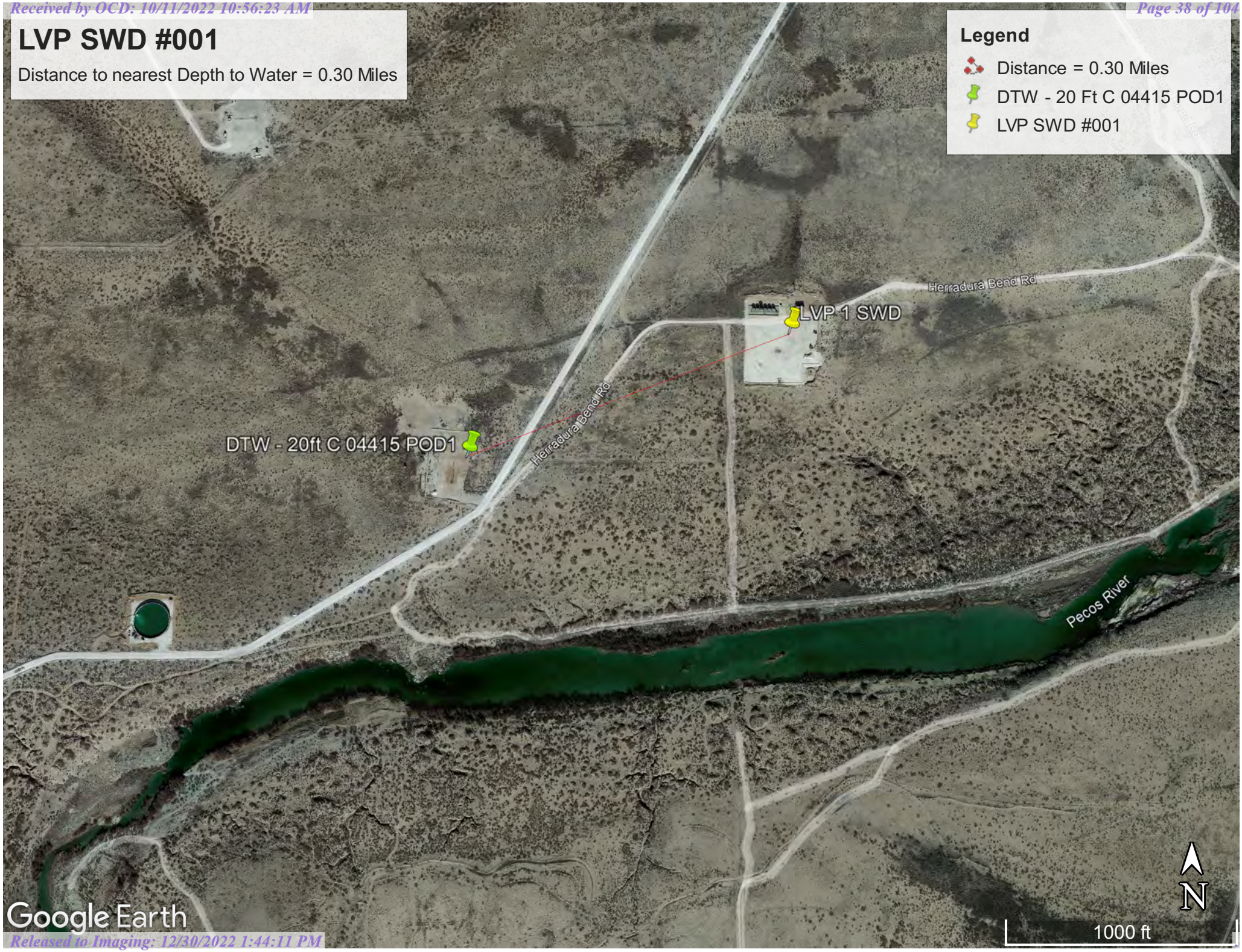
UTMNAD83 Radius Search (in meters):

Easting (X): 586110 **Northing (Y):** 3577774.59 **Radius:** 5000

***UTM location was derived from PLSS - see Help**

LVP SWD #001

Distance to nearest Depth to Water = 0.30 Miles



U.S. Fish and Wildlife Service

National Wetlands Inventory

LVP SWD #001 - Wetlands 1,906 Ft

December 7, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

U.S. Fish and Wildlife Service

National Wetlands Inventory

LVP SWD #001 - Riverine 725 Ft

December 7, 2021

Wetlands

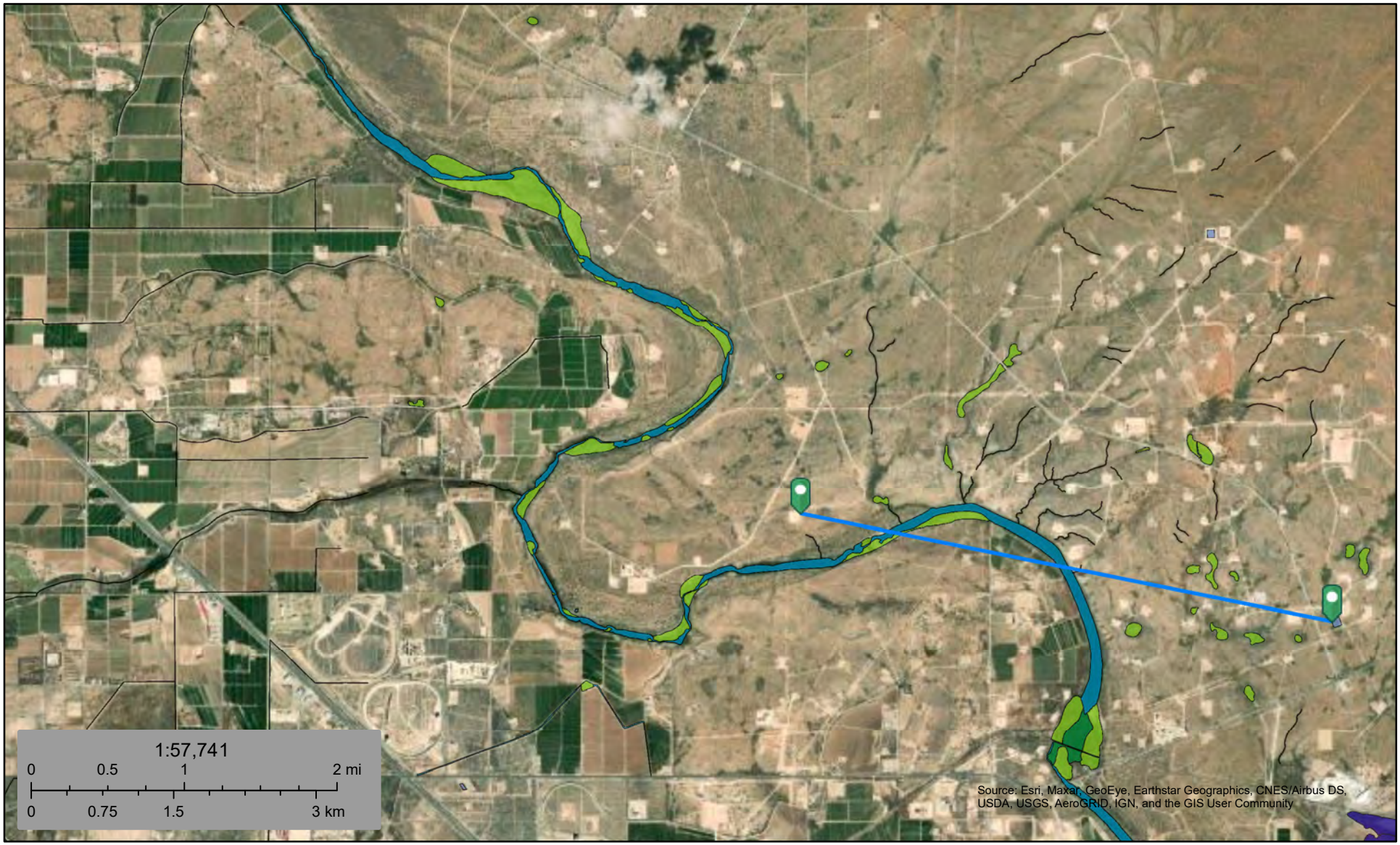
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

U.S. Fish and Wildlife Service
National Wetlands Inventory

LVP SWD #001 - FW Pond 15,845 Ft



December 7, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

LVP SWD #001

Distance to Nearest Residence = 7,340 Ft

National Flood Hazard Layer FIRMette

FEMA

104°5'25"W 32°20'16"N

104°4'47"W 32°19'46"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

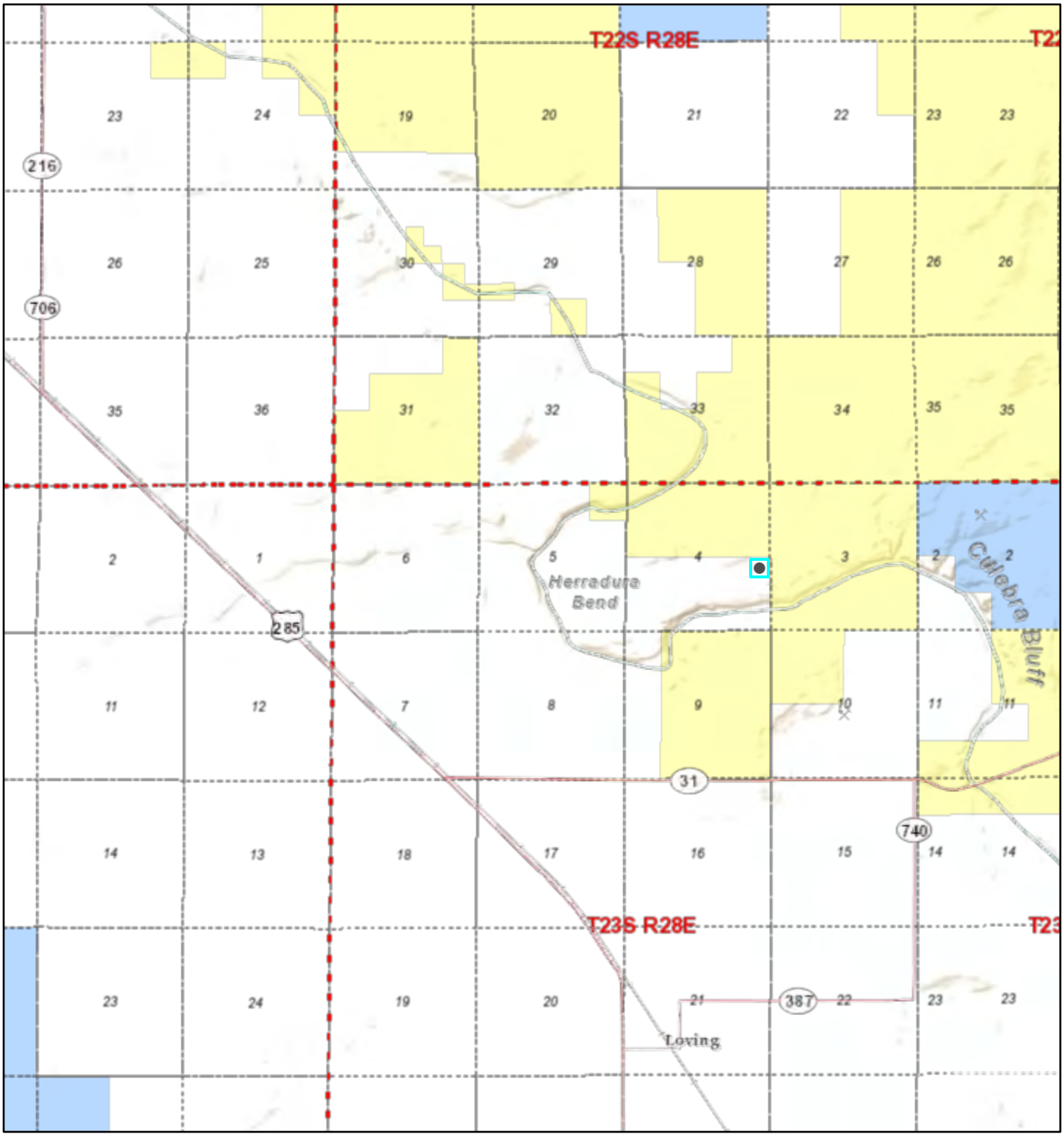
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/7/2021 at 9:26 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Active Mines Near LVP SWD #001



12/7/2021, 7:28:55 AM

1:72,224

0 0.5 1 2 mi

0 0.75 1.5 3 km

Township / Range
Sections

Land Ownership

Bureau of Land Management
Bureau of Reclamation
Department of Agriculture
Department of Defense
Department of Energy
National Park Service
Private Land
State Game and Fish
State Land
State Parks
Tribal

U.S. Bureau of Land Management - New Mexico State Office, Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

EMNRD MMD GIS Coordinator

New Energy, Minerals and Natural Resources Department (http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795)

ATTACHMENT D

Karst Map

LVP SWD #001

Karst Potential = Medium

ATTACHMENT E

Eurofins Environment Testing America Laboratory Analysis Reports

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2790-1
Laboratory Sample Delivery Group: Eddy Co
Client Project/Site: LVP SWD #001

For:
Wescom, Inc
505 Caviness St
Carlsbad, New Mexico 88220

Attn: Ashley Giovengo

JKramer

Authorized for release by:
8/25/2022 7:51:09 AM

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.com

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

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

Client: Wescom, Inc
Project/Site: LVP SWD #001

Laboratory Job ID: 890-2790-1
SDG: Eddy Co

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
Surrogate Summary 9
QC Sample Results 10
QC Association Summary 14
Lab Chronicle 16
Certification Summary 18
Method Summary 19
Sample Summary 20
Chain of Custody 21
Receipt Checklists 22

Definitions/Glossary

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2790-1
SDG: Eddy Co

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2790-1
SDG: Eddy Co

Job ID: 890-2790-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2790-1

Receipt
The samples were received on 8/19/2022 1:43 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-32613/1-A) and (LCSD 880-32613/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-32613 and analytical batch 880-32708 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

GC Semi VOA
Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-32713 and analytical batch 880-32730 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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

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

Client Sample Results

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2790-1
SDG: Eddy Co

Client Sample ID: CONF 01 Wall 1'

Lab Sample ID: 890-2790-1
Matrix: Solid
Date Collected: 08/17/22 13:05
Date Received: 08/19/22 13:43
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/22/22 14:02	08/23/22 17:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/22/22 14:02	08/23/22 17:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/22/22 14:02	08/23/22 17:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/22/22 14:02	08/23/22 17:45	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		08/22/22 14:02	08/23/22 17:45	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/22/22 14:02	08/23/22 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*08/22/22 14:02*	*08/23/22 17:45*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*08/22/22 14:02*	*08/23/22 17:45*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/24/22 11:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/24/22 11:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		08/22/22 16:29	08/23/22 19:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/22/22 16:29	08/23/22 19:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 16:29	08/23/22 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*08/22/22 16:29*	*08/23/22 19:18*	*1*
o-Terphenyl	*89*		*70 - 130*	*08/22/22 16:29*	*08/23/22 19:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**315**		5.05		mg/Kg			08/24/22 11:33	1

Client Sample ID: CONF 02 3'

Lab Sample ID: 890-2790-2
Matrix: Solid
Date Collected: 08/17/22 14:29
Date Received: 08/19/22 13:43
Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/22/22 14:02	08/23/22 18:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/22/22 14:02	08/23/22 18:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/22/22 14:02	08/23/22 18:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/22/22 14:02	08/23/22 18:05	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		08/22/22 14:02	08/23/22 18:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/22/22 14:02	08/23/22 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*08/22/22 14:02*	*08/23/22 18:05*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2790-1
SDG: Eddy Co

Client Sample ID: CONF 02 3'

Lab Sample ID: 890-2790-2
Matrix: Solid
Date Collected: 08/17/22 14:29
Date Received: 08/19/22 13:43
Sample Depth: 3

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*08/22/22 14:02*	*08/23/22 18:05*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/24/22 11:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/24/22 11:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		08/22/22 16:29	08/23/22 19:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/22/22 16:29	08/23/22 19:39	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:29	08/23/22 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*08/22/22 16:29*	*08/23/22 19:39*	*1*
o-Terphenyl	*107*		*70 - 130*	*08/22/22 16:29*	*08/23/22 19:39*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**390**		5.04		mg/Kg			08/24/22 11:42	1

Client Sample ID: CONF 03 3'

Lab Sample ID: 890-2790-3
Matrix: Solid
Date Collected: 08/17/22 14:35
Date Received: 08/19/22 13:43
Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/22/22 14:02	08/23/22 18:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/22/22 14:02	08/23/22 18:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/22/22 14:02	08/23/22 18:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/22/22 14:02	08/23/22 18:26	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		08/22/22 14:02	08/23/22 18:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/22/22 14:02	08/23/22 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*08/22/22 14:02*	*08/23/22 18:26*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*08/22/22 14:02*	*08/23/22 18:26*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/24/22 11:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/24/22 11:38	1

Client Sample Results

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2790-1
SDG: Eddy Co

Client Sample ID: CONF 03 3'

Lab Sample ID: 890-2790-3
Matrix: Solid
Date Collected: 08/17/22 14:35
Date Received: 08/19/22 13:43
Sample Depth: 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		08/22/22 16:29	08/23/22 20:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/22/22 16:29	08/23/22 20:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:29	08/23/22 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*08/22/22 16:29*	*08/23/22 20:00*	*1*
o-Terphenyl	*93*		*70 - 130*	*08/22/22 16:29*	*08/23/22 20:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**366**		4.99		mg/Kg			08/24/22 11:52	1

Client Sample ID: CONF 04 3'

Lab Sample ID: 890-2790-4
Matrix: Solid
Date Collected: 08/17/22 13:32
Date Received: 08/19/22 13:43
Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/22/22 14:02	08/23/22 18:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/22/22 14:02	08/23/22 18:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/22/22 14:02	08/23/22 18:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/22/22 14:02	08/23/22 18:46	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		08/22/22 14:02	08/23/22 18:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/22/22 14:02	08/23/22 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*08/22/22 14:02*	*08/23/22 18:46*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*08/22/22 14:02*	*08/23/22 18:46*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/24/22 11:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/24/22 11:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		08/22/22 16:29	08/23/22 20:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/22/22 16:29	08/23/22 20:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 16:29	08/23/22 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*08/22/22 16:29*	*08/23/22 20:22*	*1*
o-Terphenyl	*101*		*70 - 130*	*08/22/22 16:29*	*08/23/22 20:22*	*1*

Client Sample Results

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2790-1
SDG: Eddy Co

Client Sample ID: CONF 04 3'
Date Collected: 08/17/22 13:32
Date Received: 08/19/22 13:43
Sample Depth: 3

Lab Sample ID: 890-2790-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.9		4.96		mg/Kg			08/24/22 12:01	1

Surrogate Summary

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2790-1
SDG: Eddy Co

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-18311-A-15-C MS	Matrix Spike	124	107
880-18311-A-15-D MSD	Matrix Spike Duplicate	122	97
890-2790-1	CONF 01 Wall 1'	115	98
890-2790-2	CONF 02 3'	110	89
890-2790-3	CONF 03 3'	113	86
890-2790-4	CONF 04 3'	110	92
LCS 880-32613/1-A	Lab Control Sample	137 S1+	109
LCSD 880-32613/2-A	Lab Control Sample Dup	139 S1+	106
MB 880-32613/5-A	Method Blank	87	88

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-2786-A-2-C MS	Matrix Spike	96	74
890-2786-A-2-D MSD	Matrix Spike Duplicate	89	74
890-2790-1	CONF 01 Wall 1'	96	89
890-2790-2	CONF 02 3'	117	107
890-2790-3	CONF 03 3'	102	93
890-2790-4	CONF 04 3'	110	101
LCS 880-32713/2-A	Lab Control Sample	516 S1+	484 S1+
LCSD 880-32713/3-A	Lab Control Sample Dup	548 S1+	524 S1+
MB 880-32713/1-A	Method Blank	98	94

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2790-1
SDG: Eddy Co

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-32613/5-A
Matrix: Solid
Analysis Batch: 32708

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32613

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/22/22 09:35	08/23/22 11:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/22/22 09:35	08/23/22 11:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/22/22 09:35	08/23/22 11:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/22/22 09:35	08/23/22 11:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/22/22 09:35	08/23/22 11:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/22/22 09:35	08/23/22 11:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*08/22/22 09:35*	*08/23/22 11:55*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*08/22/22 09:35*	*08/23/22 11:55*	*1*

Lab Sample ID: LCS 880-32613/1-A
Matrix: Solid
Analysis Batch: 32708

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32613

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1026		mg/Kg		103	70 - 130		
Toluene			0.100	0.09861		mg/Kg		99	70 - 130		
Ethylbenzene			0.100	0.1128		mg/Kg		113	70 - 130		
m-Xylene & p-Xylene			0.200	0.2421		mg/Kg		121	70 - 130		
o-Xylene			0.100	0.1425	*+	mg/Kg		142	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: LCSD 880-32613/2-A
Matrix: Solid
Analysis Batch: 32708

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32613

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09095		mg/Kg		91	70 - 130	12	35
Toluene			0.100	0.08906		mg/Kg		89	70 - 130	10	35
Ethylbenzene			0.100	0.1038		mg/Kg		104	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.2183		mg/Kg		109	70 - 130	10	35
o-Xylene			0.100	0.1268		mg/Kg		127	70 - 130	12	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 880-18311-A-15-C MS
Matrix: Solid
Analysis Batch: 32708

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32613

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.100	0.09840		mg/Kg		98	70 - 130		
Toluene	<0.00201	U	0.100	0.08819		mg/Kg		87	70 - 130		

QC Sample Results

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2790-1
SDG: Eddy Co

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

Lab Sample ID: 880-18311-A-15-C MS
Matrix: Solid
Analysis Batch: 32708

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32613

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.09434		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1913		mg/Kg		95	70 - 130
o-Xylene	<0.00201	U *+	0.100	0.1145		mg/Kg		114	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-18311-A-15-D MSD
Matrix: Solid
Analysis Batch: 32708

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 32613

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0992	0.08231		mg/Kg		83	70 - 130	18	35
Toluene	<0.00201	U	0.0992	0.07662		mg/Kg		77	70 - 130	14	35
Ethylbenzene	<0.00201	U	0.0992	0.08780		mg/Kg		89	70 - 130	7	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1681		mg/Kg		84	70 - 130	13	35
o-Xylene	<0.00201	U *+	0.0992	0.1008		mg/Kg		102	70 - 130	13	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

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

Lab Sample ID: MB 880-32713/1-A
Matrix: Solid
Analysis Batch: 32730

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32713

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/22/22 16:29	08/23/22 15:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/22/22 16:29	08/23/22 15:45	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:29	08/23/22 15:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*08/22/22 16:29*	*08/23/22 15:45*	*1*
o-Terphenyl	*94*		*70 - 130*	*08/22/22 16:29*	*08/23/22 15:45*	*1*

Lab Sample ID: LCS 880-32713/2-A
Matrix: Solid
Analysis Batch: 32730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32713

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	819.0		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	925.9		mg/Kg		93	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2790-1
SDG: Eddy Co

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

Lab Sample ID: LCS 880-32713/2-A
Matrix: Solid
Analysis Batch: 32730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32713

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	516	S1+	70 - 130
o-Terphenyl	484	S1+	70 - 130

Lab Sample ID: LCSD 880-32713/3-A
Matrix: Solid
Analysis Batch: 32730

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32713

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1054	*1	mg/Kg		105	70 - 130	25	20
Diesel Range Organics (Over C10-C28)			1000	1016		mg/Kg		102	70 - 130	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	548	S1+	70 - 130
o-Terphenyl	524	S1+	70 - 130

Lab Sample ID: 890-2786-A-2-C MS
Matrix: Solid
Analysis Batch: 32730

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32713

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	999	770.6		mg/Kg		76	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	934.1		mg/Kg		91	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	74		70 - 130

Lab Sample ID: 890-2786-A-2-D MSD
Matrix: Solid
Analysis Batch: 32730

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 32713

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	998	789.4		mg/Kg		78	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	953.1		mg/Kg		93	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	74		70 - 130

QC Sample Results

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2790-1
SDG: Eddy Co

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32580/1-A
Matrix: Solid
Analysis Batch: 32762

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/24/22 07:34	1

Lab Sample ID: LCS 880-32580/2-A
Matrix: Solid
Analysis Batch: 32762

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	237.4		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-32580/3-A
Matrix: Solid
Analysis Batch: 32762

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	231.4		mg/Kg		93	90 - 110	3	20

Lab Sample ID: 890-2787-A-2-D MS
Matrix: Solid
Analysis Batch: 32762

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	118		251	357.7		mg/Kg		96	90 - 110		

Lab Sample ID: 890-2787-A-2-E MSD
Matrix: Solid
Analysis Batch: 32762

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	118		251	357.3		mg/Kg		95	90 - 110	0	20

QC Association Summary

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2790-1
SDG: Eddy Co

GC VOA

Prep Batch: 32613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2790-1	CONF 01 Wall 1'	Total/NA	Solid	5035	
890-2790-2	CONF 02 3'	Total/NA	Solid	5035	
890-2790-3	CONF 03 3'	Total/NA	Solid	5035	
890-2790-4	CONF 04 3'	Total/NA	Solid	5035	
MB 880-32613/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32613/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32613/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18311-A-15-C MS	Matrix Spike	Total/NA	Solid	5035	
880-18311-A-15-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 32708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2790-1	CONF 01 Wall 1'	Total/NA	Solid	8021B	32613
890-2790-2	CONF 02 3'	Total/NA	Solid	8021B	32613
890-2790-3	CONF 03 3'	Total/NA	Solid	8021B	32613
890-2790-4	CONF 04 3'	Total/NA	Solid	8021B	32613
MB 880-32613/5-A	Method Blank	Total/NA	Solid	8021B	32613
LCS 880-32613/1-A	Lab Control Sample	Total/NA	Solid	8021B	32613
LCSD 880-32613/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32613
880-18311-A-15-C MS	Matrix Spike	Total/NA	Solid	8021B	32613
880-18311-A-15-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	32613

Analysis Batch: 32851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2790-1	CONF 01 Wall 1'	Total/NA	Solid	Total BTEX	
890-2790-2	CONF 02 3'	Total/NA	Solid	Total BTEX	
890-2790-3	CONF 03 3'	Total/NA	Solid	Total BTEX	
890-2790-4	CONF 04 3'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 32713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2790-1	CONF 01 Wall 1'	Total/NA	Solid	8015NM Prep	
890-2790-2	CONF 02 3'	Total/NA	Solid	8015NM Prep	
890-2790-3	CONF 03 3'	Total/NA	Solid	8015NM Prep	
890-2790-4	CONF 04 3'	Total/NA	Solid	8015NM Prep	
MB 880-32713/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32713/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32713/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2786-A-2-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2786-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 32730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2790-1	CONF 01 Wall 1'	Total/NA	Solid	8015B NM	32713
890-2790-2	CONF 02 3'	Total/NA	Solid	8015B NM	32713
890-2790-3	CONF 03 3'	Total/NA	Solid	8015B NM	32713
890-2790-4	CONF 04 3'	Total/NA	Solid	8015B NM	32713
MB 880-32713/1-A	Method Blank	Total/NA	Solid	8015B NM	32713
LCS 880-32713/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32713

QC Association Summary

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2790-1
SDG: Eddy Co

GC Semi VOA (Continued)

Analysis Batch: 32730 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-32713/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32713
890-2786-A-2-C MS	Matrix Spike	Total/NA	Solid	8015B NM	32713
890-2786-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	32713

Analysis Batch: 32853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2790-1	CONF 01 Wall 1'	Total/NA	Solid	8015 NM	
890-2790-2	CONF 02 3'	Total/NA	Solid	8015 NM	
890-2790-3	CONF 03 3'	Total/NA	Solid	8015 NM	
890-2790-4	CONF 04 3'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 32580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2790-1	CONF 01 Wall 1'	Soluble	Solid	DI Leach	
890-2790-2	CONF 02 3'	Soluble	Solid	DI Leach	
890-2790-3	CONF 03 3'	Soluble	Solid	DI Leach	
890-2790-4	CONF 04 3'	Soluble	Solid	DI Leach	
MB 880-32580/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32580/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32580/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2787-A-2-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2787-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 32762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2790-1	CONF 01 Wall 1'	Soluble	Solid	300.0	32580
890-2790-2	CONF 02 3'	Soluble	Solid	300.0	32580
890-2790-3	CONF 03 3'	Soluble	Solid	300.0	32580
890-2790-4	CONF 04 3'	Soluble	Solid	300.0	32580
MB 880-32580/1-A	Method Blank	Soluble	Solid	300.0	32580
LCS 880-32580/2-A	Lab Control Sample	Soluble	Solid	300.0	32580
LCSD 880-32580/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32580
890-2787-A-2-D MS	Matrix Spike	Soluble	Solid	300.0	32580
890-2787-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	32580

Lab Chronicle

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2790-1
SDG: Eddy Co

Client Sample ID: CONF 01 Wall 1'
Lab Sample ID: 890-2790-1
Date Collected: 08/17/22 13:05
Matrix: Solid
Date Received: 08/19/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	32613	08/22/22 14:02	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32708	08/23/22 17:45	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32851	08/24/22 11:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			32853	08/24/22 11:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32713	08/22/22 16:29	DM	EET MID
Total/NA	Analysis	8015B NM		1			32730	08/23/22 19:18	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	32580	08/21/22 19:02	SMC	EET MID
Soluble	Analysis	300.0		1			32762	08/24/22 11:33	SMC	EET MID

Client Sample ID: CONF 02 3'
Lab Sample ID: 890-2790-2
Date Collected: 08/17/22 14:29
Matrix: Solid
Date Received: 08/19/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	32613	08/22/22 14:02	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32708	08/23/22 18:05	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32851	08/24/22 11:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			32853	08/24/22 11:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32713	08/22/22 16:29	DM	EET MID
Total/NA	Analysis	8015B NM		1			32730	08/23/22 19:39	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	32580	08/21/22 19:02	SMC	EET MID
Soluble	Analysis	300.0		1			32762	08/24/22 11:42	SMC	EET MID

Client Sample ID: CONF 03 3'
Lab Sample ID: 890-2790-3
Date Collected: 08/17/22 14:35
Matrix: Solid
Date Received: 08/19/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	32613	08/22/22 14:02	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32708	08/23/22 18:26	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32851	08/24/22 11:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			32853	08/24/22 11:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32713	08/22/22 16:29	DM	EET MID
Total/NA	Analysis	8015B NM		1			32730	08/23/22 20:00	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32580	08/21/22 19:02	SMC	EET MID
Soluble	Analysis	300.0		1			32762	08/24/22 11:52	SMC	EET MID

Client Sample ID: CONF 04 3'
Lab Sample ID: 890-2790-4
Date Collected: 08/17/22 13:32
Matrix: Solid
Date Received: 08/19/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	32613	08/22/22 14:02	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	32708	08/23/22 18:46	MR	EET MID
Total/NA	Analysis	Total BTEX		1			32851	08/24/22 11:18	SM	EET MID

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Lab Chronicle

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2790-1
SDG: Eddy Co

Client Sample ID: CONF 04 3'

Date Collected: 08/17/22 13:32
Date Received: 08/19/22 13:43

Lab Sample ID: 890-2790-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			32853	08/24/22 11:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32713	08/22/22 16:29	DM	EET MID
Total/NA	Analysis	8015B NM		1			32730	08/23/22 20:22	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	32580	08/21/22 19:02	SMC	EET MID
Soluble	Analysis	300.0		1			32762	08/24/22 12:01	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2790-1
SDG: Eddy Co

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2790-1
SDG: Eddy Co

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2790-1
SDG: Eddy Co

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2790-1	CONF 01 Wall 1'	Solid	08/17/22 13:05	08/19/22 13:43	1
890-2790-2	CONF 02 3'	Solid	08/17/22 14:29	08/19/22 13:43	3
890-2790-3	CONF 03 3'	Solid	08/17/22 14:35	08/19/22 13:43	3
890-2790-4	CONF 04 3'	Solid	08/17/22 13:32	08/19/22 13:43	3

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Chain of Custody

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

Work Order No: 2105591 8

www.xenco.com Page 1 of 1

Project Manager:	Ashley Giovengo	Bill to: (if different)	Devon Energy
Company Name:	Wescom Inc	Company Name:	Dale Woodall
Address:	1224 Standpipe Rd	Address:	4488 Seven Rivers Hwy
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	505-382-1211	Email:	ashley.giovengo@wescominc.com

Work Order Comments

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

Project Name:	LVP SWD # 001	Turn Around	
Project Number:		☐ Routine ☑ Rush	
Project Location:	Eddy Co.	Due Date:	24 Hour
Sampler's Name:	Cole Burton	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IWM.007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	6.0	
Total Containers:		Corrected Temperature:	5.8	

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: NaSO$_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

890-2790 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: BTEX	TPH	Cl	Sample Comments
CONF01Wall-1'	S	8/17/22	13:05	1'	Comp	1	X	X	X	
CONF02-3'	S	8/17/22	14:29	3'			X	X	X	
CONF03-3'	S	8/17/22	14:35	3'			X	X	X	
CONF04-3'	S	8/17/22	13:32	3'			X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		Amanda Stuffin	8/19/22 13:30	2		8.19.22 1343
3				4		
5				6		

Revised Date 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Wescom, Inc

Job Number: 890-2790-1
SDG Number: Eddy Co

Login Number: 2790
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Wescom, Inc

Job Number: 890-2790-1
SDG Number: Eddy Co

Login Number: 2790
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/22/22 01:19 PM

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-2806-1
Client Project/Site: LVP SWD #001
Revision: 1

For:
Wescom, Inc
505 Caviness St
Carlsbad, New Mexico 88220

Attn: Ashley Giovengo

JKramer

Authorized for release by:
9/7/2022 2:31:30 PM

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.com

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

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

Client: Wescom, Inc
Project/Site: LVP SWD #001

Laboratory Job ID: 890-2806-1

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
Surrogate Summary 9
QC Sample Results 10
QC Association Summary 18
Lab Chronicle 21
Certification Summary 23
Method Summary 24
Sample Summary 25
Chain of Custody 26
Receipt Checklists 27

Definitions/Glossary

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2806-1

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2806-1

Job ID: 890-2806-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2806-1

REVISION

The report being provided is a revision of the original report sent on 9/2/2022. The report (revision 1) is being revised due to Per client request, requesitng choride re run.

Report revision history

Receipt
The samples were received on 8/23/2022 10:04 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 19.0°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-33466 and analytical batch 880-33557 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-32854/2-A) and (LCSD 880-32854/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-32854 and analytical batch 880-32892 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) samples: (890-2799-A-1-B MS) and (890-2799-A-1-C MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method 8015MOD_NM: The method blank for preparation batch 880-32866 and analytical batch 880-32894 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-33618 and 880-33618 and analytical batch 880-33669 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2806-1

Client Sample ID: CONFO5

Date Collected: 08/18/22 10:26
Date Received: 08/23/22 10:04
Sample Depth: 2

Lab Sample ID: 890-2806-5
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:29	09/01/22 13:55	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:29	09/01/22 13:55	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:29	09/01/22 13:55	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/30/22 12:29	09/01/22 13:55	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:29	09/01/22 13:55	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/30/22 12:29	09/01/22 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*08/30/22 12:29*	*09/01/22 13:55*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/30/22 12:29*	*09/01/22 13:55*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			09/01/22 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/26/22 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/24/22 13:47	08/25/22 19:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		08/24/22 13:47	08/25/22 19:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/24/22 13:47	08/25/22 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*08/24/22 13:47*	*08/25/22 19:21*	*1*
o-Terphenyl	*94*		*70 - 130*	*08/24/22 13:47*	*08/25/22 19:21*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**528**		5.00		mg/Kg			09/07/22 02:31	1

Client Sample ID: CONFO6

Date Collected: 08/18/22 10:56
Date Received: 08/23/22 10:04
Sample Depth: 1.5

Lab Sample ID: 890-2806-6
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 14:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 14:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 14:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 12:29	09/01/22 14:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 14:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 12:29	09/01/22 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*08/30/22 12:29*	*09/01/22 14:15*	*1*

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Client Sample Results

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2806-1

Client Sample ID: CONFO6

Lab Sample ID: 890-2806-6
Matrix: Solid
Date Collected: 08/18/22 10:56
Date Received: 08/23/22 10:04
Sample Depth: 1.5

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/30/22 12:29*	*09/01/22 14:15*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/01/22 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/26/22 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/24/22 13:47	08/25/22 19:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		08/24/22 13:47	08/25/22 19:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/24/22 13:47	08/25/22 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*08/24/22 13:47*	*08/25/22 19:42*	*1*
o-Terphenyl	*88*		*70 - 130*	*08/24/22 13:47*	*08/25/22 19:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**495**		4.95		mg/Kg			08/30/22 19:05	1

Client Sample ID: CONFO7

Lab Sample ID: 890-2806-7
Matrix: Solid
Date Collected: 08/22/22 11:37
Date Received: 08/23/22 10:04
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/31/22 14:40	09/01/22 23:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/31/22 14:40	09/01/22 23:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/31/22 14:40	09/01/22 23:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/31/22 14:40	09/01/22 23:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/31/22 14:40	09/01/22 23:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/31/22 14:40	09/01/22 23:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*08/31/22 14:40*	*09/01/22 23:22*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*08/31/22 14:40*	*09/01/22 23:22*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/01/22 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/26/22 09:02	1

Eurofins Carlsbad

Client Sample Results

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2806-1

Client Sample ID: CONFO7

Lab Sample ID: 890-2806-7
Matrix: Solid
Date Collected: 08/22/22 11:37
Date Received: 08/23/22 10:04
Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/24/22 16:32	08/25/22 19:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/24/22 16:32	08/25/22 19:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/24/22 16:32	08/25/22 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*08/24/22 16:32*	*08/25/22 19:00*	*1*
o-Terphenyl	*82*		*70 - 130*	*08/24/22 16:32*	*08/25/22 19:00*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**412**		4.97		mg/Kg			08/30/22 19:14	1

Client Sample ID: CONFO8

Lab Sample ID: 890-2806-8
Matrix: Solid
Date Collected: 08/22/22 09:45
Date Received: 08/23/22 10:04
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/31/22 14:40	09/01/22 23:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/31/22 14:40	09/01/22 23:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/31/22 14:40	09/01/22 23:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/31/22 14:40	09/01/22 23:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/31/22 14:40	09/01/22 23:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/31/22 14:40	09/01/22 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*08/31/22 14:40*	*09/01/22 23:42*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*08/31/22 14:40*	*09/01/22 23:42*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/01/22 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/26/22 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/24/22 16:32	08/25/22 19:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/24/22 16:32	08/25/22 19:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/24/22 16:32	08/25/22 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*08/24/22 16:32*	*08/25/22 19:21*	*1*
o-Terphenyl	*82*		*70 - 130*	*08/24/22 16:32*	*08/25/22 19:21*	*1*

Client Sample Results

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2806-1

Client Sample ID: CONFO8

Lab Sample ID: 890-2806-8
Matrix: Solid
Date Collected: 08/22/22 09:45
Date Received: 08/23/22 10:04
Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	403		5.01		mg/Kg			08/30/22 19:23	1

Client Sample ID: BG01

Lab Sample ID: 890-2806-9
Matrix: Solid
Date Collected: 08/19/22 08:18
Date Received: 08/23/22 10:04
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/02/22 00:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/02/22 00:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/02/22 00:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/31/22 14:40	09/02/22 00:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/02/22 00:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/31/22 14:40	09/02/22 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*08/31/22 14:40*	*09/02/22 00:03*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*08/31/22 14:40*	*09/02/22 00:03*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/01/22 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/26/22 09:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/24/22 16:32	08/25/22 19:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/24/22 16:32	08/25/22 19:42	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/24/22 16:32	08/25/22 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*08/24/22 16:32*	*08/25/22 19:42*	*1*
o-Terphenyl	*81*		*70 - 130*	*08/24/22 16:32*	*08/25/22 19:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.7		4.95		mg/Kg			08/30/22 19:32	1

Surrogate Summary

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2806-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-2784-A-41-C MS	Matrix Spike	100	103
890-2784-A-41-D MSD	Matrix Spike Duplicate	94	98
890-2791-A-2-H MS	Matrix Spike	94	109
890-2791-A-2-I MSD	Matrix Spike Duplicate	93	108
890-2806-5	CONFO5	95	106
890-2806-6	CONFO6	93	106
890-2806-7	CONFO7	93	101
890-2806-8	CONFO8	94	101
890-2806-9	BG01	93	106
LCS 880-33362/1-A	Lab Control Sample	93	95
LCS 880-33466/1-A	Lab Control Sample	94	99
LCSD 880-33362/2-A	Lab Control Sample Dup	90	98
LCSD 880-33466/2-A	Lab Control Sample Dup	96	101
MB 880-33361/5-A	Method Blank	79	118
MB 880-33362/5-A	Method Blank	82	107
MB 880-33466/5-A	Method Blank	78	116

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2796-A-2-D MS	Matrix Spike	85	80
890-2796-A-2-E MSD	Matrix Spike Duplicate	83	77
890-2799-A-1-B MS	Matrix Spike	74	67 S1-
890-2799-A-1-C MSD	Matrix Spike Duplicate	78	69 S1-
890-2806-5	CONFO5	99	94
890-2806-6	CONFO6	94	88
890-2806-7	CONFO7	81	82
890-2806-8	CONFO8	82	82
890-2806-9	BG01	82	81
LCS 880-32854/2-A	Lab Control Sample	112	134 S1+
LCS 880-32866/2-A	Lab Control Sample	81	93
LCSD 880-32854/3-A	Lab Control Sample Dup	109	133 S1+
LCSD 880-32866/3-A	Lab Control Sample Dup	92	108
MB 880-32854/1-A	Method Blank	106	104
MB 880-32866/1-A	Method Blank	88	95

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2806-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-33361/5-A
Matrix: Solid
Analysis Batch: 33465

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33361

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 17:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 17:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 17:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 12:16	08/31/22 17:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 17:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 12:16	08/31/22 17:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*08/30/22 12:16*	*08/31/22 17:36*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*08/30/22 12:16*	*08/31/22 17:36*	*1*

Lab Sample ID: MB 880-33362/5-A
Matrix: Solid
Analysis Batch: 33465

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 05:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 05:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 05:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 12:29	09/01/22 05:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 05:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 12:29	09/01/22 05:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*08/30/22 12:29*	*09/01/22 05:11*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*08/30/22 12:29*	*09/01/22 05:11*	*1*

Lab Sample ID: LCS 880-33362/1-A
Matrix: Solid
Analysis Batch: 33465

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33362

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08954		mg/Kg		90	70 - 130
Toluene	0.100	0.09540		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.09384		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1720		mg/Kg		86	70 - 130
o-Xylene	0.100	0.09358		mg/Kg		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-33362/2-A
Matrix: Solid
Analysis Batch: 33465

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33362

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08443		mg/Kg		84	70 - 130	6	35

QC Sample Results

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2806-1

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

Lab Sample ID: LCSD 880-33362/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 33465 — **Prep Batch: 33362**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08898		mg/Kg		89	70 - 130	7	35
Ethylbenzene			0.100	0.08828		mg/Kg		88	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1627		mg/Kg		81	70 - 130	6	35
o-Xylene			0.100	0.08712		mg/Kg		87	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 890-2784-A-41-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 33465 — **Prep Batch: 33362**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.101	0.1030		mg/Kg		102	70 - 130
Toluene	<0.00202	U	0.101	0.09919		mg/Kg		99	70 - 130
Ethylbenzene	<0.00202	U	0.101	0.09015		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.201	0.1615		mg/Kg		80	70 - 130
o-Xylene	<0.00202	U	0.101	0.08797		mg/Kg		87	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-2784-A-41-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 33465 — **Prep Batch: 33362**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0998	0.09574		mg/Kg		96	70 - 130	7	35
Toluene	<0.00202	U	0.0998	0.09569		mg/Kg		96	70 - 130	4	35
Ethylbenzene	<0.00202	U	0.0998	0.08913		mg/Kg		89	70 - 130	1	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1611		mg/Kg		81	70 - 130	0	35
o-Xylene	<0.00202	U	0.0998	0.08747		mg/Kg		88	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 880-33466/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 33557 — **Prep Batch: 33466**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/31/22 14:40	09/01/22 18:00	1

QC Sample Results

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2806-1

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

Lab Sample ID: MB 880-33466/5-A
Matrix: Solid
Analysis Batch: 33557

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33466

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/31/22 14:40	09/01/22 18:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*08/31/22 14:40*	*09/01/22 18:00*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*08/31/22 14:40*	*09/01/22 18:00*	*1*

Lab Sample ID: LCS 880-33466/1-A
Matrix: Solid
Analysis Batch: 33557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 33466

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1098		mg/Kg		110	70 - 130
Toluene	0.100	0.1103		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.1076		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.1975		mg/Kg		99	70 - 130
o-Xylene	0.100	0.1037		mg/Kg		104	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-33466/2-A
Matrix: Solid
Analysis Batch: 33557

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 33466

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1142		mg/Kg		114	70 - 130	4	35
Toluene	0.100	0.1143		mg/Kg		114	70 - 130	4	35
Ethylbenzene	0.100	0.1120		mg/Kg		112	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2059		mg/Kg		103	70 - 130	4	35
o-Xylene	0.100	0.1080		mg/Kg		108	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 890-2791-A-2-H MS
Matrix: Solid
Analysis Batch: 33557

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 33466

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.09295		mg/Kg		93	70 - 130
Toluene	<0.00200	U	0.0998	0.06941		mg/Kg		70	70 - 130
Ethylbenzene	<0.00200	U F1	0.0998	0.04751	F1	mg/Kg		48	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.08400	F1	mg/Kg		42	70 - 130
o-Xylene	<0.00200	U F1	0.0998	0.04484	F1	mg/Kg		45	70 - 130

QC Sample Results

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2806-1

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

Lab Sample ID: 890-2791-A-2-H MS
Matrix: Solid
Analysis Batch: 33557

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 33466

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-2791-A-2-I MSD
Matrix: Solid
Analysis Batch: 33557

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 33466

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0994	0.09702		mg/Kg		98	70 - 130	4	35
Toluene	<0.00200	U	0.0994	0.07575		mg/Kg		76	70 - 130	9	35
Ethylbenzene	<0.00200	U F1	0.0994	0.05323	F1	mg/Kg		54	70 - 130	11	35
m-Xylene & p-Xylene	<0.00399	U F1	0.199	0.09324	F1	mg/Kg		47	70 - 130	10	35
o-Xylene	<0.00200	U F1	0.0994	0.05060	F1	mg/Kg		51	70 - 130	12	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

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

Lab Sample ID: MB 880-32854/1-A
Matrix: Solid
Analysis Batch: 32892

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32854

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/24/22 13:47	08/25/22 10:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/24/22 13:47	08/25/22 10:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/24/22 13:47	08/25/22 10:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	08/24/22 13:47	08/25/22 10:52	1
o-Terphenyl	104		70 - 130	08/24/22 13:47	08/25/22 10:52	1

Lab Sample ID: LCS 880-32854/2-A
Matrix: Solid
Analysis Batch: 32892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32854

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1158		mg/Kg		116	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1315	*+	mg/Kg		132	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	134	S1+	70 - 130

QC Sample Results

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2806-1

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

Lab Sample ID: LCSD 880-32854/3-A
Matrix: Solid
Analysis Batch: 32892

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32854

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1261		mg/Kg		126	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	1324	*+	mg/Kg		132	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*109*		*70 - 130*
o-Terphenyl	*133*	*S1+*	*70 - 130*

Lab Sample ID: 890-2796-A-2-D MS
Matrix: Solid
Analysis Batch: 32892

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32854

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	822.1		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U *+	999	897.2		mg/Kg		88	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*85*		*70 - 130*
o-Terphenyl	*80*		*70 - 130*

Lab Sample ID: 890-2796-A-2-E MSD
Matrix: Solid
Analysis Batch: 32892

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 32854

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	830.1		mg/Kg		83	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U *+	998	879.7		mg/Kg		86	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*83*		*70 - 130*
o-Terphenyl	*77*		*70 - 130*

Lab Sample ID: MB 880-32866/1-A
Matrix: Solid
Analysis Batch: 32894

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/24/22 16:32	08/25/22 10:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/24/22 16:32	08/25/22 10:52	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/24/22 16:32	08/25/22 10:52	1

QC Sample Results

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2806-1

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

Lab Sample ID: MB 880-32866/1-A
Matrix: Solid
Analysis Batch: 32894

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32866

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	08/24/22 16:32	08/25/22 10:52	1
o-Terphenyl	95		70 - 130	08/24/22 16:32	08/25/22 10:52	1

Lab Sample ID: LCS 880-32866/2-A
Matrix: Solid
Analysis Batch: 32894

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32866

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	858.4		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	863.3		mg/Kg		86	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: LCSD 880-32866/3-A
Matrix: Solid
Analysis Batch: 32894

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32866

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	926.7		mg/Kg		93	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	979.5		mg/Kg		98	70 - 130	13	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: 890-2799-A-1-B MS
Matrix: Solid
Analysis Batch: 32894

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32866

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	761.1		mg/Kg		72	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	717.7		mg/Kg		72	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	67	S1-	70 - 130

QC Sample Results

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2806-1

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

Lab Sample ID: 890-2799-A-1-C MSD
Matrix: Solid
Analysis Batch: 32894

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 32866

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	783.2		mg/Kg		74	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	734.2		mg/Kg		74	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*78*		*70 - 130*
o-Terphenyl	*69*	*S1-*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32909/1-A
Matrix: Solid
Analysis Batch: 33251

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/30/22 15:05	1

Lab Sample ID: LCS 880-32909/2-A
Matrix: Solid
Analysis Batch: 33251

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	267.6		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-32909/3-A
Matrix: Solid
Analysis Batch: 33251

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	256.1		mg/Kg		102	90 - 110	4	20

Lab Sample ID: MB 880-33618/1-A
Matrix: Solid
Analysis Batch: 33669

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			09/06/22 23:11	1

Lab Sample ID: LCS 880-33618/2-A
Matrix: Solid
Analysis Batch: 33669

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	236.7		mg/Kg		95	90 - 110

QC Sample Results

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2806-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-33618/3-A
Matrix: Solid
Analysis Batch: 33669

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	237.4		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 890-2858-A-4-D MS
Matrix: Solid
Analysis Batch: 33669

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2070	F1	1260	3893	F1	mg/Kg		145	90 - 110		

Lab Sample ID: 890-2858-A-4-E MSD
Matrix: Solid
Analysis Batch: 33669

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2070	F1	1260	3895	F1	mg/Kg		145	90 - 110	0	20

QC Association Summary

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2806-1

GC VOA

Prep Batch: 33361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-33361/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 33362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2806-5	CONFO5	Total/NA	Solid	5035	
890-2806-6	CONFO6	Total/NA	Solid	5035	
MB 880-33362/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33362/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33362/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2784-A-41-C MS	Matrix Spike	Total/NA	Solid	5035	
890-2784-A-41-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 33465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2806-5	CONFO5	Total/NA	Solid	8021B	33362
890-2806-6	CONFO6	Total/NA	Solid	8021B	33362
MB 880-33361/5-A	Method Blank	Total/NA	Solid	8021B	33361
MB 880-33362/5-A	Method Blank	Total/NA	Solid	8021B	33362
LCS 880-33362/1-A	Lab Control Sample	Total/NA	Solid	8021B	33362
LCSD 880-33362/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33362
890-2784-A-41-C MS	Matrix Spike	Total/NA	Solid	8021B	33362
890-2784-A-41-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	33362

Prep Batch: 33466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2806-7	CONFO7	Total/NA	Solid	5035	
890-2806-8	CONFO8	Total/NA	Solid	5035	
890-2806-9	BG01	Total/NA	Solid	5035	
MB 880-33466/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33466/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33466/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2791-A-2-H MS	Matrix Spike	Total/NA	Solid	5035	
890-2791-A-2-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 33557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2806-7	CONFO7	Total/NA	Solid	8021B	33466
890-2806-8	CONFO8	Total/NA	Solid	8021B	33466
890-2806-9	BG01	Total/NA	Solid	8021B	33466
MB 880-33466/5-A	Method Blank	Total/NA	Solid	8021B	33466
LCS 880-33466/1-A	Lab Control Sample	Total/NA	Solid	8021B	33466
LCSD 880-33466/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33466
890-2791-A-2-H MS	Matrix Spike	Total/NA	Solid	8021B	33466
890-2791-A-2-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	33466

Analysis Batch: 33575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2806-5	CONFO5	Total/NA	Solid	Total BTEX	
890-2806-6	CONFO6	Total/NA	Solid	Total BTEX	
890-2806-7	CONFO7	Total/NA	Solid	Total BTEX	
890-2806-8	CONFO8	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2806-1

GC VOA (Continued)

Analysis Batch: 33575 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2806-9	BG01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 32854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2806-5	CONFO5	Total/NA	Solid	8015NM Prep	
890-2806-6	CONFO6	Total/NA	Solid	8015NM Prep	
MB 880-32854/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32854/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32854/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2796-A-2-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2796-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 32866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2806-7	CONFO7	Total/NA	Solid	8015NM Prep	
890-2806-8	CONFO8	Total/NA	Solid	8015NM Prep	
890-2806-9	BG01	Total/NA	Solid	8015NM Prep	
MB 880-32866/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32866/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32866/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2799-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2799-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 32892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2806-5	CONFO5	Total/NA	Solid	8015B NM	32854
890-2806-6	CONFO6	Total/NA	Solid	8015B NM	32854
MB 880-32854/1-A	Method Blank	Total/NA	Solid	8015B NM	32854
LCS 880-32854/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32854
LCSD 880-32854/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32854
890-2796-A-2-D MS	Matrix Spike	Total/NA	Solid	8015B NM	32854
890-2796-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	32854

Analysis Batch: 32894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2806-7	CONFO7	Total/NA	Solid	8015B NM	32866
890-2806-8	CONFO8	Total/NA	Solid	8015B NM	32866
890-2806-9	BG01	Total/NA	Solid	8015B NM	32866
MB 880-32866/1-A	Method Blank	Total/NA	Solid	8015B NM	32866
LCS 880-32866/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32866
LCSD 880-32866/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32866
890-2799-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	32866
890-2799-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	32866

Analysis Batch: 33021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2806-5	CONFO5	Total/NA	Solid	8015 NM	
890-2806-6	CONFO6	Total/NA	Solid	8015 NM	
890-2806-7	CONFO7	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2806-1

GC Semi VOA (Continued)

Analysis Batch: 33021 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2806-8	CONFO8	Total/NA	Solid	8015 NM	
890-2806-9	BG01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 32909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2806-6	CONFO6	Soluble	Solid	DI Leach	
890-2806-7	CONFO7	Soluble	Solid	DI Leach	
890-2806-8	CONFO8	Soluble	Solid	DI Leach	
890-2806-9	BG01	Soluble	Solid	DI Leach	
MB 880-32909/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32909/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32909/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 33251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2806-6	CONFO6	Soluble	Solid	300.0	32909
890-2806-7	CONFO7	Soluble	Solid	300.0	32909
890-2806-8	CONFO8	Soluble	Solid	300.0	32909
890-2806-9	BG01	Soluble	Solid	300.0	32909
MB 880-32909/1-A	Method Blank	Soluble	Solid	300.0	32909
LCS 880-32909/2-A	Lab Control Sample	Soluble	Solid	300.0	32909
LCSD 880-32909/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32909

Leach Batch: 33618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2806-5	CONFO5	Soluble	Solid	DI Leach	
MB 880-33618/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-33618/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-33618/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2858-A-4-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2858-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 33669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2806-5	CONFO5	Soluble	Solid	300.0	33618
MB 880-33618/1-A	Method Blank	Soluble	Solid	300.0	33618
LCS 880-33618/2-A	Lab Control Sample	Soluble	Solid	300.0	33618
LCSD 880-33618/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	33618
890-2858-A-4-D MS	Matrix Spike	Soluble	Solid	300.0	33618
890-2858-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	33618

Lab Chronicle

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2806-1

Client Sample ID: CONFO5
Date Collected: 08/18/22 10:26
Date Received: 08/23/22 10:04

Lab Sample ID: 890-2806-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 13:55	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33575	09/01/22 17:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			33021	08/26/22 09:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32854	08/24/22 13:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	32892	08/25/22 19:21	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	33618	09/02/22 15:12	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33669	09/07/22 02:31	CH	EET MID

Client Sample ID: CONFO6
Date Collected: 08/18/22 10:56
Date Received: 08/23/22 10:04

Lab Sample ID: 890-2806-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 14:15	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33575	09/01/22 17:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			33021	08/26/22 09:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32854	08/24/22 13:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	32892	08/25/22 19:42	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	32909	08/25/22 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33251	08/30/22 19:05	CH	EET MID

Client Sample ID: CONFO7
Date Collected: 08/22/22 11:37
Date Received: 08/23/22 10:04

Lab Sample ID: 890-2806-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	33466	08/31/22 14:40	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/01/22 23:22	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33575	09/01/22 17:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			33021	08/26/22 09:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32866	08/24/22 16:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	32894	08/25/22 19:00	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	32909	08/25/22 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33251	08/30/22 19:14	CH	EET MID

Client Sample ID: CONFO8
Date Collected: 08/22/22 09:45
Date Received: 08/23/22 10:04

Lab Sample ID: 890-2806-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33466	08/31/22 14:40	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/01/22 23:42	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33575	09/01/22 17:20	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2806-1

Client Sample ID: CONFO8
Date Collected: 08/22/22 09:45
Date Received: 08/23/22 10:04

Lab Sample ID: 890-2806-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			33021	08/26/22 09:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32866	08/24/22 16:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	32894	08/25/22 19:21	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32909	08/25/22 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33251	08/30/22 19:23	CH	EET MID

Client Sample ID: BG01
Date Collected: 08/19/22 08:18
Date Received: 08/23/22 10:04

Lab Sample ID: 890-2806-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33466	08/31/22 14:40	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/02/22 00:03	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33575	09/01/22 17:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			33021	08/26/22 09:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32866	08/24/22 16:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	32894	08/25/22 19:42	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	32909	08/25/22 09:40	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33251	08/30/22 19:32	CH	EET MID

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

Accreditation/Certification Summary

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2806-1

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2806-1

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Wescom, Inc
Project/Site: LVP SWD #001

Job ID: 890-2806-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2806-5	CONFO5	Solid	08/18/22 10:26	08/23/22 10:04	2
890-2806-6	CONFO6	Solid	08/18/22 10:56	08/23/22 10:04	1.5
890-2806-7	CONFO7	Solid	08/22/22 11:37	08/23/22 10:04	4
890-2806-8	CONFO8	Solid	08/22/22 09:45	08/23/22 10:04	4
890-2806-9	BG01	Solid	08/19/22 08:18	08/23/22 10:04	1

eurofins | Environment Testing Xenco

Chain of Custody

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

Work Order No: 21055918

www.xenco.com Page 1 of 1

Project Manager:	Ashley Giovengo	Bill to: (if different)	Devon Energy
Company Name:	Wescom Inc	Company Name:	Dale Woodall
Address:	1224 Standpipe Rd	Address:	6488 Seven Rivers Hwy
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	505-382-1211	Email:	ashley.giovengo@wescominc.com

Work Order Comments

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

Project Name:	LVP SWD #001	Turn Around	Pres. Code
Project Number:		☑ Routine ☐ Rush	
Project Location:	Eddy Co.	Due Date:	
Sampler's Name:	Cole Burton	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:		NM.007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:		-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:		19.2
Total Containers:		Corrected Temperature:		19.0

ANALYSIS REQUEST

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: NaSO$_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: BTEX NM	TPH NM	CL NM	Sample Comments
CONFOIWall	S	08/17	13:05	1	Comp	1	X	X	X	
CONFO2	S	08/17	14:29	3	Comp	1				
CONFO3	S	08/17	14:35	3	Comp	1				
CONFO4	S	08/17	13:32	3	Comp	1				
CONFO5	S	08/18	10:20	2	Comp	1				
CONFO6	S	08/18	10:56	1.5	Comp	1				
CONFO7	S	08/22	11:37	4	Comp	1				
CONFO8	S	08/22	9:45	4	Comp	1				
BG01	S	8/19	08:18	1	Comp	1				

890-2806 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	2 8.23.22 10:04	08/23/22	10:02am		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Wescom, Inc

Job Number: 890-2806-1
SDG Number:

Login Number: 2806
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Wescom, Inc

Job Number: 890-2806-1
SDG Number:

Login Number: 2806
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/24/22 10:58 AM

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

ATTACHMENT F

48-hour Liner Inspection Notification Email

From: Ashley Giovengo
To: OCD.Enviro@state.nm.us; Woodall, Dale
Cc: Shar Harvester; Joey Croce; Cody York; Cole Burton; Israel Estrella
Subject: 48-hour Liner Inspection Notification - LVP SWD #001
Date: Thursday, July 28, 2022 3:41:48 PM

Hello All,

This email is to notify the NMOCD that Wescom, Inc. will be at the LVP SWD #001 to perform a liner inspection. Inspection will be conducted on Monday, August 01, 2022 (08/01/2022) at approximately 0900 hours. Please let me know if you have any questions.

Thank you,

Ashley Giovengo, Environmental Manager - Permian
O (218) 724-1322 | **C** (505) 382-1211
WescomInc.com | ashley.giovengo@WescomInc.com
"I am in charge of my own safety."

ATTACHMENT G

48-hour Confirmation Sampling Notification Email

From: Cole Burton
To: Ashley Giovengo; OCD.Enviro@state.nm.us
Cc: Woodall, Dale; Shar Harvester; Cody York; Joey Croce
Subject: RE: 48-Hour Confirmation Sample Notice - LVP SWD #001 - nAPP2220632306
Date: Monday, August 22, 2022 7:21:00 AM

Hello,

Please extend this sampling event to Monday (8/22/22)

Thanks,

Cole Burton, Environmental Field Technician
O (218) 724-1322 | **C** (505) 205-0455
WescomInc.com | cole.burton@WescomInc.com
"I am in charge of my own safety."

From: Ashley Giovengo <ashley.giovengo@wescominc.com>
Sent: Monday, August 15, 2022 10:00 AM
To: OCD.Enviro@state.nm.us
Cc: Woodall, Dale <Dale.Woodall@dvn.com>; Cole Burton <cole.burton@wescominc.com>; Shar Harvester <Shar.Harvester@WescomInc.com>; Cody York <cody.york@wescominc.com>; Joey Croce <Joey.Croce@WescomInc.com>
Subject: 48-Hour Confirmation Sample Notice - LVP SWD #001 - nAPP2220632306

Hello All,

We intend to take confirmation samples at the LVP SWD #001 – nAPP2220632306 starting on (8/17/22).

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

Ashley Giovengo, Environmental Manager - Permian
O (218) 724-1322 | **C** (505) 382-1211
WescomInc.com | ashley.giovengo@WescomInc.com
"I am in charge of my own safety."

From: Ashley Giovengo
To: OCD.Enviro@state.nm.us
Cc: Woodall, Dale; Cole Burton; Shar Harvester; Cody York; Joey Croce
Subject: 48-Hour Confirmation Sample Notice - LVP SWD #001 - nAPP2220632306
Date: Monday, August 15, 2022 9:59:55 AM

Hello All,

We intend to take confirmation samples at the LVP SWD #001 – nAPP2220632306 starting on (8/17/22).

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

Ashley Giovengo, Environmental Manager - Permian
O (218) 724-1322 | **C** (505) 382-1211
WescomInc.com | ashley.giovengo@WescomInc.com
"I am in charge of my own safety."

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

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

CONDITIONS

Action 150141

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 150141
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	Please note that closure samples must be received at a temperature below 4 degrees F	12/30/2022