ENSOLUM

September 24, 2024

New Mexico Oil Conservation Division
New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Release Delineation and Deferral Request
Val Verde Plant
San Juan County, New Mexico
Harvest Four Corners, LLC
NMOCD Incident No: nAPP2418530973

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Harvest Four Corners, LLC (Harvest), presents the following *Release Delineation and Deferral Request* (Request) detailing soil sampling and site delineation activities for a release at the Val Verde Plant (Site). The Site is located on private land in Bloomfield, New Mexico (Figure 1). The Site is located in Unit H, Section 18, Township 30 North, Range 10 West, in San Juan County, New Mexico. The purpose of the soil sampling and delineation activities was to confirm the presence or absence of impacts to soil following a release of liquid amine at the Site. Based on field observations, field screening, and laboratory analytical results from soil sampling activities, Harvest is submitting this Deferral Request for the release at the Site.

RELEASE BACKGROUND

On June 28, 2024, a control valve leaked, releasing approximately 11.9 barrels (bbls) of liquid amine onto the surrounding ground surface of the facility comprised structural fill and crushed aggregate. Upon discovery of the release, the valve was immediately isolated to stop any further liquid release. The remaining fluid on the ground surface was subsequently hydro vacuumed.

An initial Release Notification and Corrective Action Form C-141 (Form C-141) was submitted to the New Mexico Oil Conservation Division (NMOCD) on July 3, 2024, and has been updated and included with this report. The release was assigned Incident Number nAPP2418530973.

SITE DESCRIPTION AND CLOSURE CRITERIA

Ensolum characterized the Site to determine applicability of Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of State Engineer (NMOSE) well SJ 4254 POD1 (Appendix A), a monitoring well, is located approximately 965 feet northwest of the Site. This groundwater monitoring well has a depth to groundwater of approximately 69 feet bgs. Ground surface elevation at the groundwater well location is

approximately 5,620 feet above mean sea level (amsl), which is approximately 10 feet lower in elevation than the Site.

The closest significant watercourse to the Site is an agricultural irrigation canal, located approximately 670 feet to the southwest. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is located in a low potential karst area. Figures 2 shows the Site in relation to the above potential receptors.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) as gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO): 100 mg/kg
- Chloride: 600 mg/kg

DELINEATION SOIL SAMPLING AND ANALYTICAL RESULTS

On July 15, 2022, Harvest enlisted Ensolum to collect soil samples from the area of the release. Boring locations were selected to evaluate the vertical and lateral extent of impacted soil closest to the source area by placing borings below and outside of the extent of release. A total of seven borehole locations (SS01 through SS07) were advanced using a hand auger to depths ranging from ground surface to 1-foot bgs. Figure 3 depicts the area of the release and the seven soil sample locations. A photographic log is included as Appendix B.

Analytical results indicated that elevated total TPH concentrations exceeding the Closure Criteria were present in soil samples SS01, SS03, and SS06 collected from ground surface to 1-foot bgs. The pH results ranged from 7.60 to 9.70 standard units. TPH-GRO, BTEX compounds and chloride concentrations were not detected in any of the other soil samples above laboratory reporting limits.

On September 9, 2024, Ensolum collected additional soil samples to delineate identified impacts. Six samples (SS08 through SS13) were collected from 3.5 feet bgs to vertically delineate previous sample locations (SS01, SS02, SS03, SS04, SS06 and SS07). Three additional boring locations (SS14, SS15, and SS16) were sampled at ground surface and 3.5 feet bgs to laterally delineate impacts to the north and south. The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were shipped chilled under strict chain-of-custody (COC) procedures to Eurofins Environmental Analysis Laboratory (Eurofins) in Albuquerque, New Mexico for the following analysis:

- BTEX by United States Environmental Protection Agency (EPA) Method 8021B
- TPH-GRO, TPH-DRO, and TPH-MRO by EPA Method 8015M/D
- Chloride anion by EPA Method 300.0
- pH by Method SM4500H+B / EPA9040C

Analytical results detected TPH-DRO at sample location SS13 from 3.5 feet bgs with concentration of 30 milligrams per kilogram (mg/kg), however, this result is below the Closure Criteria. TPH-GRO, TPH-MRO, BTEX compounds and chloride concentrations were not detected

in any of the soil samples above laboratory reporting limits and pH results ranged from 8.0 to 9.0 standard units. Analytical results are summarized in Table 1 and laboratory analytical reports and COC documentation for the initial soil samples are included as Appendix C.

DEFERRAL REQUEST

Following the release, Harvest initiated remediation efforts to remove the excess fluids from the ground surface. Delineation soil-sampling activities conducted by Ensolum, and subsequent analytical results indicate that the impacted soil remains in a limited area at the Site at vertical depths less than 3.5 feet bgs and that the lateral extent of the release has successfully been delineated. Based on the vertical and lateral extent of the impact and delineation soil sampling results, approximately 200 cubic yards of impacted soil remain in place at the Site near active production equipment.

Based on the results presented in this report, Ensolum and Harvest do not believe deferment of the remaining impacted soil will result in imminent risk to human health, the environment, or groundwater. Specifically, impacted soil remaining at the Site is restricted to depths less than 3.5 feet. Additionally, based on the nature of the soil within this area of the Site (structural fill for equipment and machinery related to the gas plant operations) and the access restrictions presented by the gas plant equipment/machinery, further soil removal is not feasible at this time. In accordance with 19.15.29.12 C NMAC. (2), Harvest is proposing to leave in place approximately 200 cubic yards of impacted soil at the Site until facility closure or major deconstruction, whichever occurs first. Accordingly, Harvest requests deferral of final remediation at the Site until equipment in this area is removed or the facility is closed.

We appreciate the opportunity to provide this report to the NMOCD. If you should have any questions or comments regarding this document, please contact the undersigned.

Sincerely,

Ensolum, LLC

Sidney Mahanay
Project Geologist
(979) 877-8887
smahanay@ensolum.com

Brooke Herb
Senior Geologist
(970) 403-6824
bherb@ensolum.com

cc: Jennifer Deal, Harvest Four Corners, LLC

Attachments:

Figure 1:	Site Location Map
Figure 2:	Site Receptor Map
Figure 3:	Soil Sampling Locations
Table 1:	Delineation Soil Sample Analytical Results
Appendix A:	NMOSE Well Summary
Appendix B:	Photographic Log
Appendix C:	Laboratory Analytical Reports

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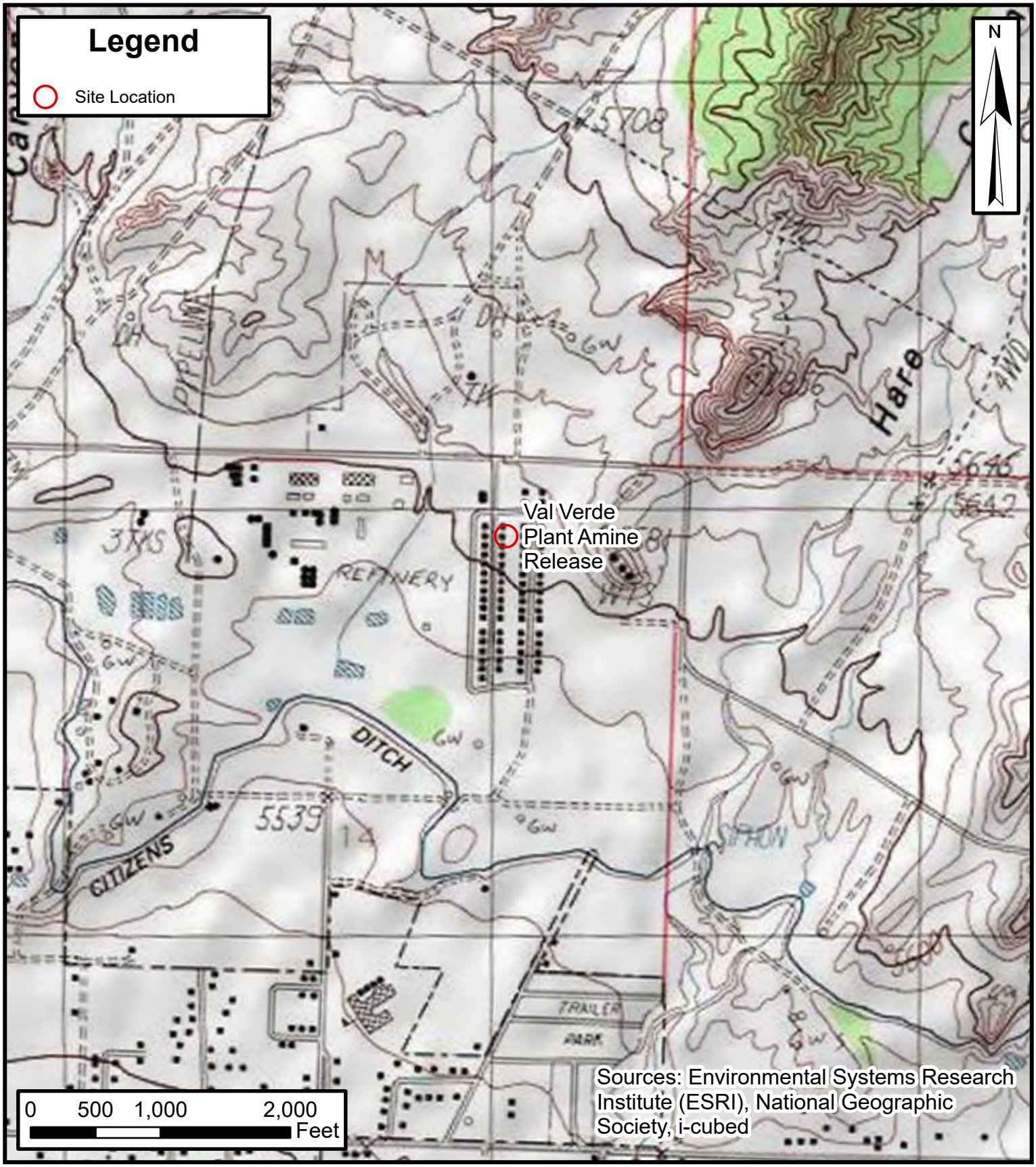
Figures



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Environmental, Engineering and Hydrogeologic Consultants

Site Location Map

Val Verde Plant Amine Release
Harvest Four Corners, LLC
36.731293, -107.95650
San Juan County, New Mexico

FIGURE
1

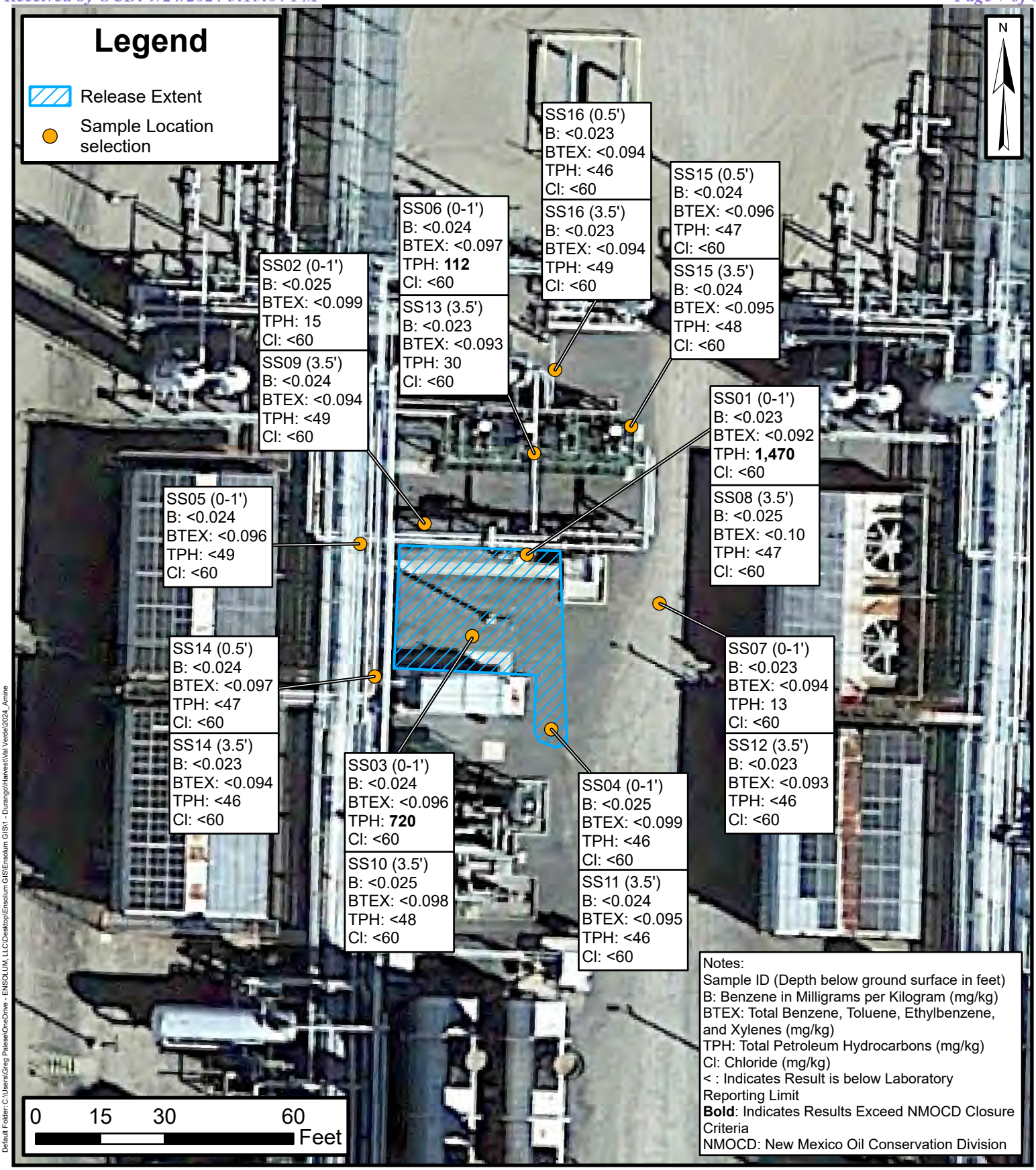
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

Val Verde Plant Amine Release
Harvest Four Corners, LLC
36.72909, -107.95515
San Juan County, New Mexico

FIGURE
2

Sources: Environmental Systems Research Institute (ESRI), United States Geologic Survey (USGS), United States Fish and Wildlife Service (USFWS), National Geographic Society, i-cubed



Default Folder: C:\Users\Greg Pates\OneDrive - ENSOLUM, LLC\Desktop\Ensolum GIS\Ensolum GIS\1 - Durango\Harvest\Val Verde\2024_Amine

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Soil Sampling Locations

Val Verde Plant Amine Release
Harvest Four Corners, LLC

36.72909, -107.95515
San Juan County, New Mexico

FIGURE
3

Sources: Google Earth (2019)

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Table

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TABLE 1
DELINEATION SOIL SAMPLE ANALYTICAL RESULTS
Val Verde Plant
Harvest Four Corners, LLC
San Juan County, New Mexico

Sample Identification	Date	Depth (feet bgs)	pH	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release (Groundwater <50 feet)			NE	**10**	NE	NE	NE	**50**	NE	NE	NE	**100**	**600**
July 15, 2024 Delineation Samples													
SS01	7/15/2024	0 - 1	9.1	< 0.023	< 0.046	< 0.046	< 0.092	< 0.092	< 4.6	470	1,000	**1,470**	< 60
SS02	7/15/2024	0 - 1	7.6	< 0.025	< 0.050	< 0.050	< 0.092	< 0.099	< 5.0	15	< 45	15	< 60
SS03	7/15/2024	0 - 1	9.7	< 0.024	< 0.048	< 0.048	< 0.096	< 0.096	< 4.8	720	< 440	**720**	< 60
SS04	7/15/2024	0 - 1	8.8	< 0.025	< 0.049	< 0.049	< 0.099	< 0.099	< 4.9	< 9.2	< 46	< 46	< 60
SS05	7/15/2024	0 - 1	8.8	< 0.024	< 0.048	< 0.048	< 0.096	< 0.096	< 4.8	< 9.8	< 49	< 49	< 60
SS06	7/15/2024	0 - 1	8.8	< 0.024	< 0.048	< 0.048	< 0.097	< 0.097	< 4.8	32	80	**112**	< 60
SS07	7/15/2024	0 - 1	9.0	< 0.023	< 0.047	< 0.047	< 0.094	< 0.094	< 4.7	13	< 44	13	< 60
September 9, 2024 Delineation Samples													
SS08	9/9/2024	3.5	9.0	< 0.025	< 0.050	< 0.050	< 0.10	< 0.10	< 5.0	< 9.4	< 47	< 47	< 60
SS09	9/9/2024	3.5	8.3	< 0.024	< 0.047	< 0.047	< 0.094	< 0.094	< 4.7	< 9.8	< 49	< 49	< 60
SS10	9/9/2024	3.5	8.2	< 0.025	< 0.049	< 0.049	< 0.098	< 0.098	< 4.9	< 9.6	< 48	< 48	< 60
SS11	9/9/2024	3.5	8.3	< 0.024	< 0.048	< 0.048	< 0.095	< 0.095	< 4.8	< 9.2	< 46	< 46	< 60
SS12	9/9/2024	3.5	8.2	< 0.023	< 0.047	< 0.047	< 0.093	< 0.093	< 4.7	< 9.2	< 46	< 46	< 60
SS13	9/9/2024	3.5	8.0	< 0.023	< 0.046	< 0.046	< 0.093	< 0.093	< 4.6	30	< 48	30	< 60
SS14	9/9/2024	0.5	8.1	< 0.024	< 0.049	< 0.049	< 0.097	< 0.097	< 4.9	< 9.3	< 47	< 47	< 60
SS14	9/9/2024	3.5	8.1	< 0.023	< 0.047	< 0.047	< 0.094	< 0.094	< 4.7	< 9.3	< 46	< 46	< 60
SS15	9/9/2024	0.5	8.2	< 0.024	< 0.048	< 0.048	< 0.096	< 0.096	< 4.8	< 9.4	< 47	< 47	< 60
SS15	9/9/2024	3.5	8.2	< 0.024	< 0.048	< 0.048	< 0.095	< 0.095	< 4.8	< 9.6	< 48	< 48	< 60
SS16	9/9/2024	0.5	8.1	< 0.023	< 0.047	< 0.047	< 0.094	< 0.094	< 4.7	< 9.2	< 46	< 46	< 60
SS16	9/9/2024	3.5	8.2	< 0.023	< 0.047	< 0.047	< 0.094	< 0.094	< 4.7	< 9.9	< 49	< 49	< 60

Notes:

bgs: below ground surface

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

mg/kg: milligrams per kilogram

NE: Not Established

NMOCD: New Mexico Oil Conservation Division

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon

<0.037 : indicates result less than the stated laboratory reporting limit (RL)

*Concentrations in **bold** and shaded exceed the New Mexico Oil Conservation Division Table 1 Closure Criteria for Soils Impacted by a Release*

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APPENDIX A

NMOSE Well Summary

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

2019 SEP 11 PM 1:52
STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 13	MW-49	SJ-4254

WELL OWNER NAME(S)	PHONE (OPTIONAL)
El Paso CGP Wiley Attn: Joseph Wiley	713-420-3475

WELL OWNER MAILING ADDRESS	CITY	STATE	
1001 Louisianan Street	Houston	TX	77002

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	36	44'05	18	N
	LONGITUDE	107	57'32	58	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE
SW1/4, SE1/4, S11, T29N, R11W

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1664	Shawn Cain	Cascade Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/17/19	8/18/19	8/18/19	73	69

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☐ SHALLOW (UNCONFINED)
STATIC WATER LEVEL IN COMPLETED WELL (FT): 69.10

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Sonic

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	73	8"					
0	46		4" PVC Blank	Flush Thread SCH 40		0.237	
46	71		4" PVC Screen	Flush Thread SCH 40		0.237	.010

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	2	8	Concrete	.5	Poured
2	42	8	Cement Bentonite Grout	7.85	Tremie
42	44	8	Bentonite Chips	.39	Poured
45	71	8	10/20 Sand	5.11	Poured

FOR OSE INTERNAL USE
WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	SJ4254	POD NO.	13	TRN NO.	677882
LOCATION	29N. 13W. 18. 342	WELL TAG ID NO.		PAGE 1 OF 2	

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	50	50	Silt, light olive brown, very dry	Y N	
50	73	23	Slit, light olive brown, dry clay bedrock at 57'	(Y) N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

2019 SEP 11 PM 1:45 STATE ENGINEER OFFICE AZTEC, NEW MEXICO

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☑ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Shawn C. Shawn Cain — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

9-4-19 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. SJ-4254	POD NO. 13	TRN NO.	
LOCATION 29N.13W.18.342		WELL TAG ID NO.	PAGE 2 OF 2

Cascade Drilling

Well Development Report

Project Name:	U Bluff Plants	Client Name:	Jacobs
Well Number:	MW-49	Date:	8-22-19
Time Start Dev:	8:00 Am	Well Material:	PVC
Well Size:	4 inch	Drilled TD:	69.65
Screen Type:		Screen Length:	
SWL Before Dev:	69.70	TD Before Dev:	69.65

Development - Bail and Surge

Method	Time On	Time Off	TD After	SWL After	Total Purged	Comments
Bail	8:14	9:03	69.65	69.65	0	Fine Shavings in well, Bailed Dry, Dirty water
Surge	3:10	3:50	69.65	54.10	0	Added 20 Gallons to well
Bail	3:50	4:10	69.65	69.65	18	Bailed out excess water, Dirty, Bailed Dry

Development - Purging

Pumping Rate	Time On	Time Off	SWL	PWL	Total Purged	Pump Setting	Comments

Recap

Final TD:	69.65	Final SWL:	69.65
Well SC:		Total Purged	~~0~~ 15.55 feet of water 18

Comments

20 Gallon ADDED to well to Begin Surging Per Client Request, Bailed Dry.

Blanco Plant W.W. #1

221652

(This form is to be executed in triplicate)

WELL RECORD

Misc. 1-SJ-11

Date of Receipt November 17, 1953. Permit No. Misc. 178

SJ-7

Name of permitee, El Paso Natural Gas Company

Street or P. O. Box 997, City and State Farmington, New Mexico

1. Well location and description: The ____ (shallow or artesian) well is located in SW ¼, NE ¼, NE ¼ of Section 14, Township 29N, Range 11 W; Elevation of top of casing above sea level, 5597 gr. feet; diameter of hole, ____ inches; total depth, 752 feet; depth to water upon completion, ____ feet; drilling was commenced 7-16, 1952, and completed 8-15, 1952; name of drilling contractor Conley Cox; Address, Box 785, Aztec, N.M.; Driller's License No. 85-0106595

2. Principal Water-bearing Strata:

	Depth in Feet From	To	Thickness	Description of Water-bearing Formation
No. 1	435	496	61	Sd.
No. 2	510	735	225	SD.
No. 3	736	752	16	Sd.
No. 4				
No. 5				

3. Casing Record:

Diameter in inches	Pounds per ft.	Threads per inch	Depth of Casing or Liner Top	Depth of Casing or Liner Bottom	Feet of Casing	Type of Shoe	Perforation From	Perforation To
9-5/8	25				610			
10-3/4	(Surface pipe)				150			

4. If above construction replaces old well to be abandoned, give location: ____ ¼, ____ ¼, ____ ¼ of Section ____, Township ____, Range ____; name and address of plugging contractor,

date of plugging ____, 19____; describe how well was plugged:

Abandoned but not plugged.

STATE ENGINEER-Santa Fe, N. M.
RECEIVED
NOV 17 1953
PM
1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6

~~5-4~~ SJ-7

~~Misc 1-SJ-7~~

5. Log of Well:

Depth in Feet From	Depth in Feet To	Thickness in feet	Description of Formation

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

.....
Licensed Well Driller

Instructions

This form shall be executed, preferably typewritten, in triplicate and filed with the State Engineer's Office at Roswell, New Mexico, within 10 days after drilling has been completed. Data on water-bearing strata and on all formations encountered should be as complete and accurate as possible.

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APPENDIX B

Photographic Log

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Photographic Log
Val Verde Plant
Harvest Four Corners, LLC
San Juan County, New Mexico

Photo #1
Amine spill location. N view

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Photographic Log
Val Verde Plant
Harvest Four Corners, LLC
San Juan County, New Mexico

Photo #2
Amine spill location. NW view

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Photographic Log
Val Verde Plant
Harvest Four Corners, LLC
San Juan County, New Mexico

Photo #3
Amine spill location. S view

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APPENDIX C

Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jennifer Deal
Harvest
1755 Arroyo Dr.
Bloomfield, New Mexico 87413

Generated 8/1/2024 11:13:37 AM

JOB DESCRIPTION

Val Verde

JOB NUMBER

885-8254-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated
8/1/2024 11:13:37 AM

Authorized for release by
Michelle Garcia, Project Manager
michelle.garcia@et.eurofinsus.com
(505)345-3975

Client: Harvest
Project/Site: Val Verde

Laboratory Job ID: 885-8254-1

Table of Contents

Definitions/Glossary

Client: Harvest Job ID: 885-8254-1
Project/Site: Val Verde

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
S1-	Surrogate recovery exceeds control limits, low biased.

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: Harvest
Project: Val Verde

Job ID: 885-8254-1

Job ID: 885-8254-1 Eurofins Albuquerque

Job Narrative
885-8254-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt
The samples were received on 7/18/2024 6:27 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 2.5°C.

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

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

Diesel Range Organics
Method 8015D_DRO: The following samples were diluted due to the nature of the sample matrix: SS01 (885-8254-1), SS02 (885-8254-2) and SS03 (885-8254-3). Elevated reporting limits (RLs) are provided.

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

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

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

Client Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-8254-1

Client Sample ID: SS01

Date Collected: 07/15/24 09:30
Date Received: 07/18/24 06:27

Lab Sample ID: 885-8254-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6		mg/Kg		07/19/24 12:18	07/23/24 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*07/19/24 12:18*	*07/23/24 12:16*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		07/19/24 12:18	07/23/24 12:16	1
Ethylbenzene	ND		0.046		mg/Kg		07/19/24 12:18	07/23/24 12:16	1
Toluene	ND		0.046		mg/Kg		07/19/24 12:18	07/23/24 12:16	1
Xylenes, Total	ND		0.092		mg/Kg		07/19/24 12:18	07/23/24 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*48 - 145*	*07/19/24 12:18*	*07/23/24 12:16*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**470**		97		mg/Kg		07/22/24 12:31	07/22/24 23:42	10
Motor Oil Range Organics [C28-C40]	**1000**		490		mg/Kg		07/22/24 12:31	07/22/24 23:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*0*	*S1- D*	*62 - 134*	*07/22/24 12:31*	*07/22/24 23:42*	*10*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		07/22/24 14:36	07/22/24 19:52	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	**9.1**		0.1		SU			07/31/24 15:35	1

Client Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-8254-1

Client Sample ID: SS02

Date Collected: 07/15/24 09:35
Date Received: 07/18/24 06:27

Lab Sample ID: 885-8254-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		07/19/24 12:18	07/23/24 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*35 - 166*	*07/19/24 12:18*	*07/23/24 12:39*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		07/19/24 12:18	07/23/24 12:39	1
Ethylbenzene	ND		0.050		mg/Kg		07/19/24 12:18	07/23/24 12:39	1
Toluene	ND		0.050		mg/Kg		07/19/24 12:18	07/23/24 12:39	1
Xylenes, Total	ND		0.099		mg/Kg		07/19/24 12:18	07/23/24 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*07/19/24 12:18*	*07/23/24 12:39*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**15**		9.1		mg/Kg		07/22/24 12:31	07/24/24 18:29	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		07/22/24 12:31	07/24/24 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*87*		*62 - 134*	*07/22/24 12:31*	*07/24/24 18:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		07/22/24 14:36	07/22/24 20:04	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	**7.6**		0.1		SU			07/31/24 15:35	1

Client Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-8254-1

Client Sample ID: SS03

Date Collected: 07/15/24 09:40
Date Received: 07/18/24 06:27

Lab Sample ID: 885-8254-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		07/19/24 12:18	07/23/24 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*35 - 166*	*07/19/24 12:18*	*07/23/24 13:02*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		07/19/24 12:18	07/23/24 13:02	1
Ethylbenzene	ND		0.048		mg/Kg		07/19/24 12:18	07/23/24 13:02	1
Toluene	ND		0.048		mg/Kg		07/19/24 12:18	07/23/24 13:02	1
Xylenes, Total	ND		0.096		mg/Kg		07/19/24 12:18	07/23/24 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*07/19/24 12:18*	*07/23/24 13:02*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**720**		88		mg/Kg		07/22/24 12:31	07/23/24 00:32	10
Motor Oil Range Organics [C28-C40]	ND	D	440		mg/Kg		07/22/24 12:31	07/23/24 00:32	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*0*	*S1- D*	*62 - 134*	*07/22/24 12:31*	*07/23/24 00:32*	*10*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		07/22/24 14:36	07/22/24 20:17	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	**9.7**		0.1		SU			07/31/24 15:35	1

Client Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-8254-1

Client Sample ID: SS04

Date Collected: 07/15/24 10:00
Date Received: 07/18/24 06:27

Lab Sample ID: 885-8254-4

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		07/19/24 12:18	07/23/24 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*07/19/24 12:18*	*07/23/24 13:26*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		07/19/24 12:18	07/23/24 13:26	1
Ethylbenzene	ND		0.049		mg/Kg		07/19/24 12:18	07/23/24 13:26	1
Toluene	ND		0.049		mg/Kg		07/19/24 12:18	07/23/24 13:26	1
Xylenes, Total	ND		0.099		mg/Kg		07/19/24 12:18	07/23/24 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*	*07/19/24 12:18*	*07/23/24 13:26*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		07/22/24 12:31	07/23/24 01:21	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		07/22/24 12:31	07/23/24 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*	*07/22/24 12:31*	*07/23/24 01:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		07/22/24 14:36	07/22/24 20:29	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	**8.8**		0.1		SU			07/31/24 15:35	1

Client Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-8254-1

Client Sample ID: SS05

Date Collected: 07/15/24 10:05
Date Received: 07/18/24 06:27

Lab Sample ID: 885-8254-5

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		07/19/24 12:18	07/23/24 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*07/19/24 12:18*	*07/23/24 13:49*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		07/19/24 12:18	07/23/24 13:49	1
Ethylbenzene	ND		0.048		mg/Kg		07/19/24 12:18	07/23/24 13:49	1
Toluene	ND		0.048		mg/Kg		07/19/24 12:18	07/23/24 13:49	1
Xylenes, Total	ND		0.096		mg/Kg		07/19/24 12:18	07/23/24 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*07/19/24 12:18*	*07/23/24 13:49*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		07/22/24 12:31	07/23/24 01:46	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		07/22/24 12:31	07/23/24 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*103*		*62 - 134*	*07/22/24 12:31*	*07/23/24 01:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		07/22/24 14:36	07/22/24 21:06	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	**8.8**		0.1		SU			07/31/24 15:35	1

Client Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-8254-1

Client Sample ID: SS06

Date Collected: 07/15/24 10:10
Date Received: 07/18/24 06:27

Lab Sample ID: 885-8254-6

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		07/19/24 12:18	07/23/24 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*35 - 166*	*07/19/24 12:18*	*07/23/24 14:13*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		07/19/24 12:18	07/23/24 14:13	1
Ethylbenzene	ND		0.048		mg/Kg		07/19/24 12:18	07/23/24 14:13	1
Toluene	ND		0.048		mg/Kg		07/19/24 12:18	07/23/24 14:13	1
Xylenes, Total	ND		0.097		mg/Kg		07/19/24 12:18	07/23/24 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*07/19/24 12:18*	*07/23/24 14:13*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**32**		9.3		mg/Kg		07/24/24 12:14	07/25/24 02:22	1
Motor Oil Range Organics [C28-C40]	**80**		46		mg/Kg		07/24/24 12:14	07/25/24 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*105*		*62 - 134*	*07/24/24 12:14*	*07/25/24 02:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		07/23/24 12:08	07/23/24 16:53	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	**8.8**		0.1		SU			07/31/24 15:35	1

Client Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-8254-1

Client Sample ID: SS07

Date Collected: 07/15/24 10:15
Date Received: 07/18/24 06:27

Lab Sample ID: 885-8254-7

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		07/22/24 11:56	07/23/24 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*07/22/24 11:56*	*07/23/24 21:11*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		07/22/24 11:56	07/23/24 21:11	1
Ethylbenzene	ND		0.047		mg/Kg		07/22/24 11:56	07/23/24 21:11	1
Toluene	ND		0.047		mg/Kg		07/22/24 11:56	07/23/24 21:11	1
Xylenes, Total	ND		0.094		mg/Kg		07/22/24 11:56	07/23/24 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*48 - 145*	*07/22/24 11:56*	*07/23/24 21:11*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**13**		8.7		mg/Kg		07/24/24 12:14	07/25/24 02:33	1
Motor Oil Range Organics [C28-C40]	ND		44		mg/Kg		07/24/24 12:14	07/25/24 02:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*108*		*62 - 134*	*07/24/24 12:14*	*07/25/24 02:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		07/23/24 12:08	07/23/24 17:30	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	**9.0**		0.1		SU			07/31/24 15:35	1

QC Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-8254-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-8787/1-A
Matrix: Solid
Analysis Batch: 8964

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8787

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		07/19/24 12:18	07/22/24 23:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*07/19/24 12:18*	*07/22/24 23:37*	*1*

Lab Sample ID: LCS 885-8787/2-A
Matrix: Solid
Analysis Batch: 8964

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8787

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	20.7		mg/Kg		83	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*200*	*S1+*	*35 - 166*

Lab Sample ID: MB 885-8908/1-A
Matrix: Solid
Analysis Batch: 9046

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8908

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		07/22/24 11:56	07/23/24 13:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*07/22/24 11:56*	*07/23/24 13:11*	*1*

Lab Sample ID: LCS 885-8908/2-A
Matrix: Solid
Analysis Batch: 9046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8908

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	21.5		mg/Kg		86	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*207*	*S1+*	*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-8787/1-A
Matrix: Solid
Analysis Batch: 8965

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8787

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		07/19/24 12:18	07/22/24 23:37	1
Ethylbenzene	ND		0.050		mg/Kg		07/19/24 12:18	07/22/24 23:37	1
Toluene	ND		0.050		mg/Kg		07/19/24 12:18	07/22/24 23:37	1
Xylenes, Total	ND		0.10		mg/Kg		07/19/24 12:18	07/22/24 23:37	1

QC Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-8254-1

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

Lab Sample ID: MB 885-8787/1-A
Matrix: Solid
Analysis Batch: 8965

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8787

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		48 - 145	07/19/24 12:18	07/22/24 23:37	1

Lab Sample ID: LCS 885-8787/3-A
Matrix: Solid
Analysis Batch: 8965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8787

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.952		mg/Kg		95	70 - 130
Ethylbenzene	1.00	0.901		mg/Kg		90	70 - 130
Toluene	1.00	0.907		mg/Kg		91	70 - 130
Xylenes, Total	3.00	2.67		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		48 - 145

Lab Sample ID: MB 885-8908/1-A
Matrix: Solid
Analysis Batch: 9048

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8908

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		07/22/24 11:56	07/23/24 13:11	1
Ethylbenzene	ND		0.050	mg/Kg		07/22/24 11:56	07/23/24 13:11	1
Toluene	ND		0.050	mg/Kg		07/22/24 11:56	07/23/24 13:11	1
Xylenes, Total	ND		0.10	mg/Kg		07/22/24 11:56	07/23/24 13:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		48 - 145	07/22/24 11:56	07/23/24 13:11	1

Lab Sample ID: LCS 885-8908/3-A
Matrix: Solid
Analysis Batch: 9048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8908

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.907		mg/Kg		91	70 - 130
Ethylbenzene	1.00	0.920		mg/Kg		92	70 - 130
Toluene	1.00	0.916		mg/Kg		92	70 - 130
Xylenes, Total	3.00	2.75		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		48 - 145

QC Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-8254-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-8915/1-A
Matrix: Solid
Analysis Batch: 8878

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8915

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		07/22/24 12:31	07/22/24 14:41	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		07/22/24 12:31	07/22/24 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*07/22/24 12:31*	*07/22/24 14:41*	*1*

Lab Sample ID: LCS 885-8915/2-A
Matrix: Solid
Analysis Batch: 8878

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8915

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	55.2		mg/Kg		110	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*

Lab Sample ID: 885-8254-5 MS
Matrix: Solid
Analysis Batch: 8878

Client Sample ID: SS05
Prep Type: Total/NA
Prep Batch: 8915

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]	ND		45.8	44.7		mg/Kg		98	44 - 136		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*

Lab Sample ID: 885-8254-5 MSD
Matrix: Solid
Analysis Batch: 8878

Client Sample ID: SS05
Prep Type: Total/NA
Prep Batch: 8915

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		46.7	49.0		mg/Kg		105	44 - 136	9	32

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*105*		*62 - 134*

Lab Sample ID: MB 885-9060/1-A
Matrix: Solid
Analysis Batch: 9050

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9060

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		07/24/24 12:14	07/25/24 01:48	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		07/24/24 12:14	07/25/24 01:48	1

QC Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-8254-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 885-9060/1-A
Matrix: Solid
Analysis Batch: 9050

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9060

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*104*		*62 - 134*	*07/24/24 12:14*	*07/25/24 01:48*	*1*

Lab Sample ID: LCS 885-9060/2-A
Matrix: Solid
Analysis Batch: 9050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9060

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	47.0		mg/Kg		94	60 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*91*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-8930/1-A
Matrix: Solid
Analysis Batch: 8949

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8930

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		07/22/24 14:36	07/22/24 16:59	1

Lab Sample ID: LCS 885-8930/2-A
Matrix: Solid
Analysis Batch: 8949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8930

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	14.1		mg/Kg		94	90 - 110

Lab Sample ID: MB 885-8982/1-A
Matrix: Solid
Analysis Batch: 9019

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8982

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		07/23/24 12:08	07/23/24 14:12	1

Lab Sample ID: LCS 885-8982/2-A
Matrix: Solid
Analysis Batch: 9019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8982

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	28.1		mg/Kg		94	90 - 110

Lab Sample ID: 885-8254-6 MS
Matrix: Solid
Analysis Batch: 9019

Client Sample ID: SS06
Prep Type: Total/NA
Prep Batch: 8982

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	ND		29.9	ND		mg/Kg		NC	50 - 150

QC Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-8254-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 885-8254-6 MSD
Matrix: Solid
Analysis Batch: 9019

Client Sample ID: SS06
Prep Type: Total/NA
Prep Batch: 8982

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		30.1	ND		mg/Kg		NC	50 - 150	NC	20

QC Association Summary

Client: Harvest
Project/Site: Val Verde

Job ID: 885-8254-1

GC VOA

Prep Batch: 8787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8254-1	SS01	Total/NA	Solid	5030C	
885-8254-2	SS02	Total/NA	Solid	5030C	
885-8254-3	SS03	Total/NA	Solid	5030C	
885-8254-4	SS04	Total/NA	Solid	5030C	
885-8254-5	SS05	Total/NA	Solid	5030C	
885-8254-6	SS06	Total/NA	Solid	5030C	
MB 885-8787/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-8787/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-8787/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 8908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8254-7	SS07	Total/NA	Solid	5030C	
MB 885-8908/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-8908/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-8908/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 8964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-8787/1-A	Method Blank	Total/NA	Solid	8015M/D	8787
LCS 885-8787/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	8787

Analysis Batch: 8965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-8787/1-A	Method Blank	Total/NA	Solid	8021B	8787
LCS 885-8787/3-A	Lab Control Sample	Total/NA	Solid	8021B	8787

Analysis Batch: 9030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8254-1	SS01	Total/NA	Solid	8015M/D	8787
885-8254-2	SS02	Total/NA	Solid	8015M/D	8787
885-8254-3	SS03	Total/NA	Solid	8015M/D	8787
885-8254-4	SS04	Total/NA	Solid	8015M/D	8787
885-8254-5	SS05	Total/NA	Solid	8015M/D	8787
885-8254-6	SS06	Total/NA	Solid	8015M/D	8787

Analysis Batch: 9031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8254-1	SS01	Total/NA	Solid	8021B	8787
885-8254-2	SS02	Total/NA	Solid	8021B	8787
885-8254-3	SS03	Total/NA	Solid	8021B	8787
885-8254-4	SS04	Total/NA	Solid	8021B	8787
885-8254-5	SS05	Total/NA	Solid	8021B	8787
885-8254-6	SS06	Total/NA	Solid	8021B	8787

Analysis Batch: 9046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8254-7	SS07	Total/NA	Solid	8015M/D	8908
MB 885-8908/1-A	Method Blank	Total/NA	Solid	8015M/D	8908
LCS 885-8908/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	8908

QC Association Summary

Client: Harvest
Project/Site: Val Verde

Job ID: 885-8254-1

GC VOA

Analysis Batch: 9048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8254-7	SS07	Total/NA	Solid	8021B	8908
MB 885-8908/1-A	Method Blank	Total/NA	Solid	8021B	8908
LCS 885-8908/3-A	Lab Control Sample	Total/NA	Solid	8021B	8908

GC Semi VOA

Analysis Batch: 8878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8254-1	SS01	Total/NA	Solid	8015M/D	8915
885-8254-3	SS03	Total/NA	Solid	8015M/D	8915
885-8254-4	SS04	Total/NA	Solid	8015M/D	8915
885-8254-5	SS05	Total/NA	Solid	8015M/D	8915
MB 885-8915/1-A	Method Blank	Total/NA	Solid	8015M/D	8915
LCS 885-8915/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	8915
885-8254-5 MS	SS05	Total/NA	Solid	8015M/D	8915
885-8254-5 MSD	SS05	Total/NA	Solid	8015M/D	8915

Prep Batch: 8915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8254-1	SS01	Total/NA	Solid	SHAKE	
885-8254-2	SS02	Total/NA	Solid	SHAKE	
885-8254-3	SS03	Total/NA	Solid	SHAKE	
885-8254-4	SS04	Total/NA	Solid	SHAKE	
885-8254-5	SS05	Total/NA	Solid	SHAKE	
MB 885-8915/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-8915/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-8254-5 MS	SS05	Total/NA	Solid	SHAKE	
885-8254-5 MSD	SS05	Total/NA	Solid	SHAKE	

Analysis Batch: 9050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8254-6	SS06	Total/NA	Solid	8015M/D	9060
885-8254-7	SS07	Total/NA	Solid	8015M/D	9060
MB 885-9060/1-A	Method Blank	Total/NA	Solid	8015M/D	9060
LCS 885-9060/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	9060

Prep Batch: 9060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8254-6	SS06	Total/NA	Solid	SHAKE	
885-8254-7	SS07	Total/NA	Solid	SHAKE	
MB 885-9060/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-9060/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 9094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8254-2	SS02	Total/NA	Solid	8015M/D	8915

HPLC/IC

Prep Batch: 8930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8254-1	SS01	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Harvest
Project/Site: Val Verde

Job ID: 885-8254-1

HPLC/IC (Continued)

Prep Batch: 8930 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8254-2	SS02	Total/NA	Solid	300_Prep	
885-8254-3	SS03	Total/NA	Solid	300_Prep	
885-8254-4	SS04	Total/NA	Solid	300_Prep	
885-8254-5	SS05	Total/NA	Solid	300_Prep	
MB 885-8930/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-8930/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 8949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8254-1	SS01	Total/NA	Solid	300.0	8930
885-8254-2	SS02	Total/NA	Solid	300.0	8930
885-8254-3	SS03	Total/NA	Solid	300.0	8930
885-8254-4	SS04	Total/NA	Solid	300.0	8930
885-8254-5	SS05	Total/NA	Solid	300.0	8930
MB 885-8930/1-A	Method Blank	Total/NA	Solid	300.0	8930
LCS 885-8930/2-A	Lab Control Sample	Total/NA	Solid	300.0	8930

Prep Batch: 8982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8254-6	SS06	Total/NA	Solid	300_Prep	
885-8254-7	SS07	Total/NA	Solid	300_Prep	
MB 885-8982/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-8982/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-8254-6 MS	SS06	Total/NA	Solid	300_Prep	
885-8254-6 MSD	SS06	Total/NA	Solid	300_Prep	

Analysis Batch: 9019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8254-6	SS06	Total/NA	Solid	300.0	8982
885-8254-7	SS07	Total/NA	Solid	300.0	8982
MB 885-8982/1-A	Method Blank	Total/NA	Solid	300.0	8982
LCS 885-8982/2-A	Lab Control Sample	Total/NA	Solid	300.0	8982
885-8254-6 MS	SS06	Total/NA	Solid	300.0	8982
885-8254-6 MSD	SS06	Total/NA	Solid	300.0	8982

General Chemistry

Analysis Batch: 9458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-8254-1	SS01	Total/NA	Solid	9040C	
885-8254-2	SS02	Total/NA	Solid	9040C	
885-8254-3	SS03	Total/NA	Solid	9040C	
885-8254-4	SS04	Total/NA	Solid	9040C	
885-8254-5	SS05	Total/NA	Solid	9040C	
885-8254-6	SS06	Total/NA	Solid	9040C	
885-8254-7	SS07	Total/NA	Solid	9040C	

Lab Chronicle

Client: Harvest
Project/Site: Val Verde

Job ID: 885-8254-1

Client Sample ID: SS01
Date Collected: 07/15/24 09:30
Date Received: 07/18/24 06:27

Lab Sample ID: 885-8254-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8787	JP	EET ALB	07/19/24 12:18
Total/NA	Analysis	8015M/D		1	9030	JP	EET ALB	07/23/24 12:16
Total/NA	Prep	5030C			8787	JP	EET ALB	07/19/24 12:18
Total/NA	Analysis	8021B		1	9031	JP	EET ALB	07/23/24 12:16
Total/NA	Prep	SHAKE			8915	DH	EET ALB	07/22/24 12:31
Total/NA	Analysis	8015M/D		10	8878	DH	EET ALB	07/22/24 23:42
Total/NA	Prep	300_Prep			8930	KB	EET ALB	07/22/24 14:36
Total/NA	Analysis	300.0		20	8949	RC	EET ALB	07/22/24 19:52
Total/NA	Analysis	9040C		1	9458	MA	EET ALB	07/31/24 15:35

Client Sample ID: SS02
Date Collected: 07/15/24 09:35
Date Received: 07/18/24 06:27

Lab Sample ID: 885-8254-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8787	JP	EET ALB	07/19/24 12:18
Total/NA	Analysis	8015M/D		1	9030	JP	EET ALB	07/23/24 12:39
Total/NA	Prep	5030C			8787	JP	EET ALB	07/19/24 12:18
Total/NA	Analysis	8021B		1	9031	JP	EET ALB	07/23/24 12:39
Total/NA	Prep	SHAKE			8915	DH	EET ALB	07/22/24 12:31
Total/NA	Analysis	8015M/D		1	9094	DH	EET ALB	07/24/24 18:29
Total/NA	Prep	300_Prep			8930	KB	EET ALB	07/22/24 14:36
Total/NA	Analysis	300.0		20	8949	RC	EET ALB	07/22/24 20:04
Total/NA	Analysis	9040C		1	9458	MA	EET ALB	07/31/24 15:35

Client Sample ID: SS03
Date Collected: 07/15/24 09:40
Date Received: 07/18/24 06:27

Lab Sample ID: 885-8254-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8787	JP	EET ALB	07/19/24 12:18
Total/NA	Analysis	8015M/D		1	9030	JP	EET ALB	07/23/24 13:02
Total/NA	Prep	5030C			8787	JP	EET ALB	07/19/24 12:18
Total/NA	Analysis	8021B		1	9031	JP	EET ALB	07/23/24 13:02
Total/NA	Prep	SHAKE			8915	DH	EET ALB	07/22/24 12:31
Total/NA	Analysis	8015M/D		10	8878	DH	EET ALB	07/23/24 00:32
Total/NA	Prep	300_Prep			8930	KB	EET ALB	07/22/24 14:36
Total/NA	Analysis	300.0		20	8949	RC	EET ALB	07/22/24 20:17
Total/NA	Analysis	9040C		1	9458	MA	EET ALB	07/31/24 15:35

Lab Chronicle

Client: Harvest
Project/Site: Val Verde

Job ID: 885-8254-1

Client Sample ID: SS04
Date Collected: 07/15/24 10:00
Date Received: 07/18/24 06:27

Lab Sample ID: 885-8254-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8787	JP	EET ALB	07/19/24 12:18
Total/NA	Analysis	8015M/D		1	9030	JP	EET ALB	07/23/24 13:26
Total/NA	Prep	5030C			8787	JP	EET ALB	07/19/24 12:18
Total/NA	Analysis	8021B		1	9031	JP	EET ALB	07/23/24 13:26
Total/NA	Prep	SHAKE			8915	DH	EET ALB	07/22/24 12:31
Total/NA	Analysis	8015M/D		1	8878	DH	EET ALB	07/23/24 01:21
Total/NA	Prep	300_Prep			8930	KB	EET ALB	07/22/24 14:36
Total/NA	Analysis	300.0		20	8949	RC	EET ALB	07/22/24 20:29
Total/NA	Analysis	9040C		1	9458	MA	EET ALB	07/31/24 15:35

Client Sample ID: SS05
Date Collected: 07/15/24 10:05
Date Received: 07/18/24 06:27

Lab Sample ID: 885-8254-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8787	JP	EET ALB	07/19/24 12:18
Total/NA	Analysis	8015M/D		1	9030	JP	EET ALB	07/23/24 13:49
Total/NA	Prep	5030C			8787	JP	EET ALB	07/19/24 12:18
Total/NA	Analysis	8021B		1	9031	JP	EET ALB	07/23/24 13:49
Total/NA	Prep	SHAKE			8915	DH	EET ALB	07/22/24 12:31
Total/NA	Analysis	8015M/D		1	8878	DH	EET ALB	07/23/24 01:46
Total/NA	Prep	300_Prep			8930	KB	EET ALB	07/22/24 14:36
Total/NA	Analysis	300.0		20	8949	RC	EET ALB	07/22/24 21:06
Total/NA	Analysis	9040C		1	9458	MA	EET ALB	07/31/24 15:35

Client Sample ID: SS06
Date Collected: 07/15/24 10:10
Date Received: 07/18/24 06:27

Lab Sample ID: 885-8254-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8787	JP	EET ALB	07/19/24 12:18
Total/NA	Analysis	8015M/D		1	9030	JP	EET ALB	07/23/24 14:13
Total/NA	Prep	5030C			8787	JP	EET ALB	07/19/24 12:18
Total/NA	Analysis	8021B		1	9031	JP	EET ALB	07/23/24 14:13
Total/NA	Prep	SHAKE			9060	KR	EET ALB	07/24/24 12:14
Total/NA	Analysis	8015M/D		1	9050	KR	EET ALB	07/25/24 02:22
Total/NA	Prep	300_Prep			8982	RC	EET ALB	07/23/24 12:08
Total/NA	Analysis	300.0		20	9019	EH	EET ALB	07/23/24 16:53
Total/NA	Analysis	9040C		1	9458	MA	EET ALB	07/31/24 15:35

Lab Chronicle

Client: Harvest
Project/Site: Val Verde

Job ID: 885-8254-1

Client Sample ID: SS07

Date Collected: 07/15/24 10:15
Date Received: 07/18/24 06:27

Lab Sample ID: 885-8254-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			8908	JP	EET ALB	07/22/24 11:56
Total/NA	Analysis	8015M/D		1	9046	RA	EET ALB	07/23/24 21:11
Total/NA	Prep	5030C			8908	JP	EET ALB	07/22/24 11:56
Total/NA	Analysis	8021B		1	9048	RA	EET ALB	07/23/24 21:11
Total/NA	Prep	SHAKE			9060	KR	EET ALB	07/24/24 12:14
Total/NA	Analysis	8015M/D		1	9050	KR	EET ALB	07/25/24 02:33
Total/NA	Prep	300_Prep			8982	RC	EET ALB	07/23/24 12:08
Total/NA	Analysis	300.0		20	9019	EH	EET ALB	07/23/24 17:30
Total/NA	Analysis	9040C		1	9458	MA	EET ALB	07/31/24 15:35

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Harvest
Project/Site: Val Verde

Job ID: 885-8254-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

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

Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
9040C		Solid	pH

Oregon	NELAP	NM100001	02-26-25

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

Analysis Method	Prep Method	Matrix	Analyte
9040C		Solid	pH

Chain-of-Custody Record

Client: Harvest
Jennifer Deal
Mailing Address:
Phone #:
email or Fax#: jdeal@harvest.com
QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush
Project Name: Val Verde
Project #:
Project Manager: Eric Carron - Ensolum
Sampler: E. Carron
On Ice: ☑ Yes ☐ No yog
# of Coolers: 1
Cooler Temp(Including CF): 2.6-0.1=2.5 (°C)

HALL ENVIRONMENTAL ANALYSIS LABO
www.hallenvironmental.com 885-8254 COC
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Amine	Remarks/ attached TMC 7/18/24
7-15	930	Soil	SS01	1 4oz	cool	1											X	
	935		SS02			2												
	940		SS03			3												
	1000		SS04			4												
	1005		SS05			5												
	1010		SS06			6												
	1015		SS07			7												

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
7-17	1250	Eric Carron	Chris Walker		7/17/24	1250
7/17/24	1745	Chris Walker		Via: courier	7/18/24	6:27

Remarks:
cc: ecarron@ensolum.com
Per Sidney - Test only for BTEX/GRO/DRO/MRO/Cl/pH
@ 7/18/24

Andy Freeman

From: Sidney Mahanay <smahanay@ensolum.com>
Sent: Thursday, July 18, 2024 10:11 AM
To: Andy Freeman
Cc: Brooke Herb; Eric Carroll; John Caldwell
Subject: Val Verde Sample Analysis Update
Attachments: scan_2024071809591995.pdf

Good morning Andy and team,

I just wanted to follow up on my phone call to supply an update to the requested analysis for the Val Verde Project (COC attached). The original COC stated amines but we would like to correct/update to evaluate all the samples for the analytes below.

- BTEX by United States Environmental Protection Agency (EPA) Method 8021B
- TPH-GRO, TPH-DRO, and TPH-MRO by EPA Method 8015M/D
- Chloride anion by EPA Method 300.0
- pH by Method SM4500H+B / EPA9040C

Let us know if you have any questions!

Thanks,

Sidney Mahanay
Project Geologist
979-877-8887
Ensolum, LLC

Login Sample Receipt Checklist

Client: Harvest Job Number: 885-8254-1

Login Number: 8254 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Monica Smith
Harvest
1755 Arroyo Dr.
Bloomfield, New Mexico 87413

Generated 9/24/2024 11:44:33 AM

JOB DESCRIPTION

Val Verde

JOB NUMBER

885-11417-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated
9/24/2024 11:44:33 AM

Authorized for release by
Erin Munoz, Project Manager
Erin.Munoz@et.eurofinsus.com
Designee for
Michelle Garcia, Project Manager
michelle.garcia@et.eurofinsus.com
(505)345-3975

Client: Harvest
Project/Site: Val Verde

Laboratory Job ID: 885-11417-1

Table of Contents

Definitions/Glossary

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

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: Harvest
Project: Val Verde

Job ID: 885-11417-1

Job ID: 885-11417-1 Eurofins Albuquerque

Job Narrative
885-11417-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt
The samples were received on 9/10/2024 7:15 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 2.6°C.

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

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

Diesel Range Organics
Method 8015D_DRO: The continuing calibration verification (CCV) associated with batch 885-12119 recovered above the upper control limit for Diesel Range Organics [C10-C28]. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SS14@0.5' (885-11417-7), SS15@0.5' (885-11417-9), SS16@0.5' (885-11417-11) and SS16@3.5' (885-11417-12).

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.

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

Client Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

Client Sample ID: SS08@3.5'
Date Collected: 09/09/24 10:15
Date Received: 09/10/24 07:15

Lab Sample ID: 885-11417-1
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		09/10/24 11:11	09/11/24 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*35 - 166*	*09/10/24 11:11*	*09/11/24 12:57*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/10/24 11:11	09/11/24 12:57	1
Ethylbenzene	ND		0.050		mg/Kg		09/10/24 11:11	09/11/24 12:57	1
Toluene	ND		0.050		mg/Kg		09/10/24 11:11	09/11/24 12:57	1
Xylenes, Total	ND		0.10		mg/Kg		09/10/24 11:11	09/11/24 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*48 - 145*	*09/10/24 11:11*	*09/11/24 12:57*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		09/11/24 11:22	09/12/24 06:21	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/11/24 11:22	09/12/24 06:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*105*		*62 - 134*	*09/11/24 11:22*	*09/12/24 06:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/11/24 13:14	09/11/24 20:01	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	**9.0**		0.1		SU			09/17/24 12:15	1

Client Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

Client Sample ID: SS09@3.5'
Date Collected: 09/09/24 10:30
Date Received: 09/10/24 07:15

Lab Sample ID: 885-11417-2
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		09/10/24 11:11	09/11/24 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*35 - 166*	*09/10/24 11:11*	*09/11/24 14:02*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/10/24 11:11	09/11/24 14:02	1
Ethylbenzene	ND		0.047		mg/Kg		09/10/24 11:11	09/11/24 14:02	1
Toluene	ND		0.047		mg/Kg		09/10/24 11:11	09/11/24 14:02	1
Xylenes, Total	ND		0.094		mg/Kg		09/10/24 11:11	09/11/24 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*09/10/24 11:11*	*09/11/24 14:02*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		09/11/24 11:22	09/12/24 06:46	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/11/24 11:22	09/12/24 06:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*09/11/24 11:22*	*09/12/24 06:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/11/24 13:14	09/11/24 21:19	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	**8.3**		0.1		SU			09/17/24 12:15	1

Client Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

Client Sample ID: SS10@3.5'
Date Collected: 09/09/24 10:40
Date Received: 09/10/24 07:15

Lab Sample ID: 885-11417-3
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		09/10/24 11:11	09/11/24 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*35 - 166*	*09/10/24 11:11*	*09/11/24 15:08*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/10/24 11:11	09/11/24 15:08	1
Ethylbenzene	ND		0.049		mg/Kg		09/10/24 11:11	09/11/24 15:08	1
Toluene	ND		0.049		mg/Kg		09/10/24 11:11	09/11/24 15:08	1
Xylenes, Total	ND		0.098		mg/Kg		09/10/24 11:11	09/11/24 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*48 - 145*	*09/10/24 11:11*	*09/11/24 15:08*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		09/11/24 11:22	09/13/24 00:04	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/11/24 11:22	09/13/24 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*09/11/24 11:22*	*09/13/24 00:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/11/24 13:14	09/11/24 21:32	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	**8.2**		0.1		SU			09/17/24 12:15	1

Client Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

Client Sample ID: SS11@3.5'
Date Collected: 09/09/24 10:55
Date Received: 09/10/24 07:15

Lab Sample ID: 885-11417-4
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		09/10/24 11:11	09/11/24 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*09/10/24 11:11*	*09/11/24 15:29*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/10/24 11:11	09/11/24 15:29	1
Ethylbenzene	ND		0.048		mg/Kg		09/10/24 11:11	09/11/24 15:29	1
Toluene	ND		0.048		mg/Kg		09/10/24 11:11	09/11/24 15:29	1
Xylenes, Total	ND		0.095		mg/Kg		09/10/24 11:11	09/11/24 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*09/10/24 11:11*	*09/11/24 15:29*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		09/11/24 11:22	09/13/24 00:16	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		09/11/24 11:22	09/13/24 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*09/11/24 11:22*	*09/13/24 00:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/11/24 13:14	09/11/24 21:44	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	**8.3**		0.1		SU			09/17/24 12:15	1

Client Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

Client Sample ID: SS12@3.5'
Date Collected: 09/09/24 11:10
Date Received: 09/10/24 07:15

Lab Sample ID: 885-11417-5
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		09/10/24 11:11	09/11/24 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*35 - 166*	*09/10/24 11:11*	*09/11/24 15:51*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		09/10/24 11:11	09/11/24 15:51	1
Ethylbenzene	ND		0.047		mg/Kg		09/10/24 11:11	09/11/24 15:51	1
Toluene	ND		0.047		mg/Kg		09/10/24 11:11	09/11/24 15:51	1
Xylenes, Total	ND		0.093		mg/Kg		09/10/24 11:11	09/11/24 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*09/10/24 11:11*	*09/11/24 15:51*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		09/11/24 11:22	09/13/24 10:35	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		09/11/24 11:22	09/13/24 10:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*105*		*62 - 134*	*09/11/24 11:22*	*09/13/24 10:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/11/24 13:14	09/11/24 21:58	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	**8.2**		0.1		SU			09/17/24 12:15	1

Client Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

Client Sample ID: SS13@3.5'
Date Collected: 09/09/24 11:25
Date Received: 09/10/24 07:15

Lab Sample ID: 885-11417-6
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6		mg/Kg		09/10/24 11:11	09/11/24 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*35 - 166*	*09/10/24 11:11*	*09/11/24 16:13*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		09/10/24 11:11	09/11/24 16:13	1
Ethylbenzene	ND		0.046		mg/Kg		09/10/24 11:11	09/11/24 16:13	1
Toluene	ND		0.046		mg/Kg		09/10/24 11:11	09/11/24 16:13	1
Xylenes, Total	ND		0.093		mg/Kg		09/10/24 11:11	09/11/24 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*09/10/24 11:11*	*09/11/24 16:13*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**30**		9.6		mg/Kg		09/11/24 11:22	09/13/24 10:59	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/11/24 11:22	09/13/24 10:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*109*		*62 - 134*	*09/11/24 11:22*	*09/13/24 10:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/11/24 13:14	09/11/24 22:11	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	**8.0**		0.1		SU			09/17/24 12:15	1

Client Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

Client Sample ID: SS14@0.5'
Date Collected: 09/09/24 11:30
Date Received: 09/10/24 07:15

Lab Sample ID: 885-11417-7
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		09/10/24 11:11	09/11/24 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*09/10/24 11:11*	*09/11/24 16:35*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/10/24 11:11	09/11/24 16:35	1
Ethylbenzene	ND		0.049		mg/Kg		09/10/24 11:11	09/11/24 16:35	1
Toluene	ND		0.049		mg/Kg		09/10/24 11:11	09/11/24 16:35	1
Xylenes, Total	ND		0.097		mg/Kg		09/10/24 11:11	09/11/24 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*	*09/10/24 11:11*	*09/11/24 16:35*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		09/11/24 11:22	09/12/24 15:58	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/11/24 11:22	09/12/24 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*104*		*62 - 134*	*09/11/24 11:22*	*09/12/24 15:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/11/24 13:14	09/11/24 22:23	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	**8.1**		0.1		SU			09/17/24 12:15	1

Client Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

Client Sample ID: SS14@3.5'
Date Collected: 09/09/24 11:40
Date Received: 09/10/24 07:15

Lab Sample ID: 885-11417-8
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		09/10/24 11:11	09/11/24 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*09/10/24 11:11*	*09/11/24 17:18*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		09/10/24 11:11	09/11/24 17:18	1
Ethylbenzene	ND		0.047		mg/Kg		09/10/24 11:11	09/11/24 17:18	1
Toluene	ND		0.047		mg/Kg		09/10/24 11:11	09/11/24 17:18	1
Xylenes, Total	ND		0.094		mg/Kg		09/10/24 11:11	09/11/24 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*09/10/24 11:11*	*09/11/24 17:18*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		09/11/24 11:22	09/13/24 11:23	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		09/11/24 11:22	09/13/24 11:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*113*		*62 - 134*	*09/11/24 11:22*	*09/13/24 11:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/11/24 13:14	09/11/24 22:36	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	**8.1**		0.1		SU			09/17/24 12:15	1

Client Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

Client Sample ID: SS15@0.5'
Date Collected: 09/09/24 11:45
Date Received: 09/10/24 07:15

Lab Sample ID: 885-11417-9
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		09/10/24 11:11	09/11/24 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*35 - 166*	*09/10/24 11:11*	*09/11/24 17:40*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/10/24 11:11	09/11/24 17:40	1
Ethylbenzene	ND		0.048		mg/Kg		09/10/24 11:11	09/11/24 17:40	1
Toluene	ND		0.048		mg/Kg		09/10/24 11:11	09/11/24 17:40	1
Xylenes, Total	ND		0.096		mg/Kg		09/10/24 11:11	09/11/24 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*09/10/24 11:11*	*09/11/24 17:40*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		09/11/24 11:22	09/12/24 17:12	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/11/24 11:22	09/12/24 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*108*		*62 - 134*	*09/11/24 11:22*	*09/12/24 17:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/11/24 13:14	09/11/24 23:15	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	**8.2**		0.1		SU			09/17/24 12:15	1

Client Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

Client Sample ID: SS15@3.5'
Date Collected: 09/09/24 11:50
Date Received: 09/10/24 07:15

Lab Sample ID: 885-11417-10
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		09/10/24 11:11	09/11/24 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*35 - 166*	*09/10/24 11:11*	*09/11/24 18:02*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/10/24 11:11	09/11/24 18:02	1
Ethylbenzene	ND		0.048		mg/Kg		09/10/24 11:11	09/11/24 18:02	1
Toluene	ND		0.048		mg/Kg		09/10/24 11:11	09/11/24 18:02	1
Xylenes, Total	ND		0.095		mg/Kg		09/10/24 11:11	09/11/24 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*09/10/24 11:11*	*09/11/24 18:02*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		09/11/24 11:22	09/13/24 11:47	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/11/24 11:22	09/13/24 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*103*		*62 - 134*	*09/11/24 11:22*	*09/13/24 11:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/11/24 13:14	09/11/24 23:54	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	**8.2**		0.1		SU			09/17/24 12:15	1

Client Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

Client Sample ID: SS16@0.5'
Date Collected: 09/09/24 12:00
Date Received: 09/10/24 07:15

Lab Sample ID: 885-11417-11
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		09/10/24 11:11	09/11/24 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*09/10/24 11:11*	*09/11/24 18:24*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		09/10/24 11:11	09/11/24 18:24	1
Ethylbenzene	ND		0.047		mg/Kg		09/10/24 11:11	09/11/24 18:24	1
Toluene	ND		0.047		mg/Kg		09/10/24 11:11	09/11/24 18:24	1
Xylenes, Total	ND		0.094		mg/Kg		09/10/24 11:11	09/11/24 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*09/10/24 11:11*	*09/11/24 18:24*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		09/11/24 11:22	09/12/24 18:26	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		09/11/24 11:22	09/12/24 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*09/11/24 11:22*	*09/12/24 18:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/11/24 13:14	09/12/24 00:07	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	**8.1**		0.1		SU			09/17/24 12:15	1

Client Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

Client Sample ID: SS16@3.5'
Date Collected: 09/09/24 12:05
Date Received: 09/10/24 07:15

Lab Sample ID: 885-11417-12
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		09/10/24 11:11	09/11/24 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*35 - 166*	*09/10/24 11:11*	*09/11/24 18:45*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		09/10/24 11:11	09/11/24 18:45	1
Ethylbenzene	ND		0.047		mg/Kg		09/10/24 11:11	09/11/24 18:45	1
Toluene	ND		0.047		mg/Kg		09/10/24 11:11	09/11/24 18:45	1
Xylenes, Total	ND		0.094		mg/Kg		09/10/24 11:11	09/11/24 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*09/10/24 11:11*	*09/11/24 18:45*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/11/24 11:22	09/12/24 18:50	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/11/24 11:22	09/12/24 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*09/11/24 11:22*	*09/12/24 18:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/11/24 13:14	09/12/24 00:19	20

General Chemistry

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9040C)	**8.2**		0.1		SU			09/17/24 12:15	1

QC Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-11936/1-A
Matrix: Solid
Analysis Batch: 12112

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11936

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		09/10/24 11:11	09/11/24 11:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*35 - 166*	*09/10/24 11:11*	*09/11/24 11:30*	*1*

Lab Sample ID: LCS 885-11936/2-A
Matrix: Solid
Analysis Batch: 12112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11936

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	28.3		mg/Kg		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*221*		*35 - 166*

Lab Sample ID: 885-11417-1 MS
Matrix: Solid
Analysis Batch: 12112

Client Sample ID: SS08@3.5'
Prep Type: Total/NA
Prep Batch: 11936

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		24.8	26.6		mg/Kg		107	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*233*		*35 - 166*

Lab Sample ID: 885-11417-1 MSD
Matrix: Solid
Analysis Batch: 12112

Client Sample ID: SS08@3.5'
Prep Type: Total/NA
Prep Batch: 11936

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		24.9	26.8		mg/Kg		108	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*223*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-11936/1-A
Matrix: Solid
Analysis Batch: 12114

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11936

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/10/24 11:11	09/11/24 11:30	1
Ethylbenzene	ND		0.050		mg/Kg		09/10/24 11:11	09/11/24 11:30	1
Toluene	ND		0.050		mg/Kg		09/10/24 11:11	09/11/24 11:30	1

QC Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

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

Lab Sample ID: MB 885-11936/1-A
Matrix: Solid
Analysis Batch: 12114

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11936

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10		mg/Kg		09/10/24 11:11	09/11/24 11:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*09/10/24 11:11*	*09/11/24 11:30*	*1*

Lab Sample ID: LCS 885-11936/3-A
Matrix: Solid
Analysis Batch: 12114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11936

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	1.02		mg/Kg		102	70 - 130		
Ethylbenzene			1.00	1.04		mg/Kg		104	70 - 130		
Toluene			1.00	1.03		mg/Kg		103	70 - 130		
Xylenes, Total			3.00	3.08		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*

Lab Sample ID: 885-11417-2 MS
Matrix: Solid
Analysis Batch: 12114

Client Sample ID: SS09@3.5'
Prep Type: Total/NA
Prep Batch: 11936

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.941	1.03		mg/Kg		109	70 - 130		
Ethylbenzene	ND		0.941	1.05		mg/Kg		111	70 - 130		
Toluene	ND		0.941	1.04		mg/Kg		111	70 - 130		
Xylenes, Total	ND		2.82	3.12		mg/Kg		110	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*

Lab Sample ID: 885-11417-2 MSD
Matrix: Solid
Analysis Batch: 12114

Client Sample ID: SS09@3.5'
Prep Type: Total/NA
Prep Batch: 11936

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.938	1.06		mg/Kg		113	70 - 130	3	20
Ethylbenzene	ND		0.938	1.11		mg/Kg		118	70 - 130	6	20
Toluene	ND		0.938	1.08		mg/Kg		115	70 - 130	3	20
Xylenes, Total	ND		2.81	3.30		mg/Kg		117	70 - 130	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*48 - 145*

QC Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-12008/1-A
Matrix: Solid
Analysis Batch: 12013

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12008

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		09/11/24 11:22	09/12/24 05:09	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/11/24 11:22	09/12/24 05:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*09/11/24 11:22*	*09/12/24 05:09*	*1*

Lab Sample ID: LCS 885-12008/2-A
Matrix: Solid
Analysis Batch: 12013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12008

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	58.7		mg/Kg		117	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-12047/1-A
Matrix: Solid
Analysis Batch: 12093

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12047

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		09/11/24 13:14	09/11/24 19:23	1

Lab Sample ID: LCS 885-12047/2-A
Matrix: Solid
Analysis Batch: 12093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12047

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	32.9		mg/Kg		110	90 - 110		

Lab Sample ID: 885-11417-9 MS
Matrix: Solid
Analysis Batch: 12093

Client Sample ID: SS15@0.5'
Prep Type: Total/NA
Prep Batch: 12047

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	ND		30.0	ND		mg/Kg		NC	50 - 150		

Lab Sample ID: 885-11417-9 MSD
Matrix: Solid
Analysis Batch: 12093

Client Sample ID: SS15@0.5'
Prep Type: Total/NA
Prep Batch: 12047

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		30.2	ND		mg/Kg		NC	50 - 150	NC	20

QC Sample Results

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 885-12213/1-A
Matrix: Solid
Analysis Batch: 12227

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12213

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		09/13/24 10:05	09/13/24 16:10	1

Lab Sample ID: MB 885-12213/1-A
Matrix: Solid
Analysis Batch: 12355

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12213

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		09/13/24 10:05	09/16/24 09:13	1

Lab Sample ID: LCS 885-12213/2-A
Matrix: Solid
Analysis Batch: 12355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12213

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	30.6		mg/Kg		102	90 - 110		

Lab Sample ID: MB 885-12240/1-A
Matrix: Solid
Analysis Batch: 12262

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12240

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		09/13/24 15:01	09/13/24 15:56	1

Lab Sample ID: LCS 885-12240/2-A
Matrix: Solid
Analysis Batch: 12262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12240

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	30.5		mg/Kg		102	90 - 110		

Method: 9040C - pH

Lab Sample ID: 885-11417-1 DU
Matrix: Solid
Analysis Batch: 12412

Client Sample ID: SS08@3.5'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	9.0			9.1		SU				0.7	20

QC Association Summary

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

GC VOA

Prep Batch: 11936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11417-1	SS08@3.5'	Total/NA	Solid	5030C	
885-11417-2	SS09@3.5'	Total/NA	Solid	5030C	
885-11417-3	SS10@3.5'	Total/NA	Solid	5030C	
885-11417-4	SS11@3.5'	Total/NA	Solid	5030C	
885-11417-5	SS12@3.5'	Total/NA	Solid	5030C	
885-11417-6	SS13@3.5'	Total/NA	Solid	5030C	
885-11417-7	SS14@0.5'	Total/NA	Solid	5030C	
885-11417-8	SS14@3.5'	Total/NA	Solid	5030C	
885-11417-9	SS15@0.5'	Total/NA	Solid	5030C	
885-11417-10	SS15@3.5'	Total/NA	Solid	5030C	
885-11417-11	SS16@0.5'	Total/NA	Solid	5030C	
885-11417-12	SS16@3.5'	Total/NA	Solid	5030C	
MB 885-11936/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-11936/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-11936/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-11417-1 MS	SS08@3.5'	Total/NA	Solid	5030C	
885-11417-1 MSD	SS08@3.5'	Total/NA	Solid	5030C	
885-11417-2 MS	SS09@3.5'	Total/NA	Solid	5030C	
885-11417-2 MSD	SS09@3.5'	Total/NA	Solid	5030C	

Analysis Batch: 12112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11417-1	SS08@3.5'	Total/NA	Solid	8015M/D	11936
885-11417-2	SS09@3.5'	Total/NA	Solid	8015M/D	11936
885-11417-3	SS10@3.5'	Total/NA	Solid	8015M/D	11936
885-11417-4	SS11@3.5'	Total/NA	Solid	8015M/D	11936
885-11417-5	SS12@3.5'	Total/NA	Solid	8015M/D	11936
885-11417-6	SS13@3.5'	Total/NA	Solid	8015M/D	11936
885-11417-7	SS14@0.5'	Total/NA	Solid	8015M/D	11936
885-11417-8	SS14@3.5'	Total/NA	Solid	8015M/D	11936
885-11417-9	SS15@0.5'	Total/NA	Solid	8015M/D	11936
885-11417-10	SS15@3.5'	Total/NA	Solid	8015M/D	11936
885-11417-11	SS16@0.5'	Total/NA	Solid	8015M/D	11936
885-11417-12	SS16@3.5'	Total/NA	Solid	8015M/D	11936
MB 885-11936/1-A	Method Blank	Total/NA	Solid	8015M/D	11936
LCS 885-11936/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	11936
885-11417-1 MS	SS08@3.5'	Total/NA	Solid	8015M/D	11936
885-11417-1 MSD	SS08@3.5'	Total/NA	Solid	8015M/D	11936

Analysis Batch: 12114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11417-1	SS08@3.5'	Total/NA	Solid	8021B	11936
885-11417-2	SS09@3.5'	Total/NA	Solid	8021B	11936
885-11417-3	SS10@3.5'	Total/NA	Solid	8021B	11936
885-11417-4	SS11@3.5'	Total/NA	Solid	8021B	11936
885-11417-5	SS12@3.5'	Total/NA	Solid	8021B	11936
885-11417-6	SS13@3.5'	Total/NA	Solid	8021B	11936
885-11417-7	SS14@0.5'	Total/NA	Solid	8021B	11936
885-11417-8	SS14@3.5'	Total/NA	Solid	8021B	11936
885-11417-9	SS15@0.5'	Total/NA	Solid	8021B	11936
885-11417-10	SS15@3.5'	Total/NA	Solid	8021B	11936

QC Association Summary

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

GC VOA (Continued)

Analysis Batch: 12114 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11417-11	SS16@0.5'	Total/NA	Solid	8021B	11936
885-11417-12	SS16@3.5'	Total/NA	Solid	8021B	11936
MB 885-11936/1-A	Method Blank	Total/NA	Solid	8021B	11936
LCS 885-11936/3-A	Lab Control Sample	Total/NA	Solid	8021B	11936
885-11417-2 MS	SS09@3.5'	Total/NA	Solid	8021B	11936
885-11417-2 MSD	SS09@3.5'	Total/NA	Solid	8021B	11936

GC Semi VOA

Prep Batch: 12008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11417-1	SS08@3.5'	Total/NA	Solid	SHAKE	
885-11417-2	SS09@3.5'	Total/NA	Solid	SHAKE	
885-11417-3	SS10@3.5'	Total/NA	Solid	SHAKE	
885-11417-4	SS11@3.5'	Total/NA	Solid	SHAKE	
885-11417-5	SS12@3.5'	Total/NA	Solid	SHAKE	
885-11417-6	SS13@3.5'	Total/NA	Solid	SHAKE	
885-11417-7	SS14@0.5'	Total/NA	Solid	SHAKE	
885-11417-8	SS14@3.5'	Total/NA	Solid	SHAKE	
885-11417-9	SS15@0.5'	Total/NA	Solid	SHAKE	
885-11417-10	SS15@3.5'	Total/NA	Solid	SHAKE	
885-11417-11	SS16@0.5'	Total/NA	Solid	SHAKE	
885-11417-12	SS16@3.5'	Total/NA	Solid	SHAKE	
MB 885-12008/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-12008/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 12013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11417-1	SS08@3.5'	Total/NA	Solid	8015M/D	12008
885-11417-2	SS09@3.5'	Total/NA	Solid	8015M/D	12008
MB 885-12008/1-A	Method Blank	Total/NA	Solid	8015M/D	12008
LCS 885-12008/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	12008

Analysis Batch: 12119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11417-7	SS14@0.5'	Total/NA	Solid	8015M/D	12008
885-11417-9	SS15@0.5'	Total/NA	Solid	8015M/D	12008
885-11417-11	SS16@0.5'	Total/NA	Solid	8015M/D	12008
885-11417-12	SS16@3.5'	Total/NA	Solid	8015M/D	12008

Analysis Batch: 12120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11417-3	SS10@3.5'	Total/NA	Solid	8015M/D	12008
885-11417-4	SS11@3.5'	Total/NA	Solid	8015M/D	12008

Analysis Batch: 12208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11417-5	SS12@3.5'	Total/NA	Solid	8015M/D	12008
885-11417-6	SS13@3.5'	Total/NA	Solid	8015M/D	12008
885-11417-8	SS14@3.5'	Total/NA	Solid	8015M/D	12008
885-11417-10	SS15@3.5'	Total/NA	Solid	8015M/D	12008

QC Association Summary

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

HPLC/IC

Prep Batch: 12047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11417-1	SS08@3.5'	Total/NA	Solid	300_Prep	
885-11417-2	SS09@3.5'	Total/NA	Solid	300_Prep	
885-11417-3	SS10@3.5'	Total/NA	Solid	300_Prep	
885-11417-4	SS11@3.5'	Total/NA	Solid	300_Prep	
885-11417-5	SS12@3.5'	Total/NA	Solid	300_Prep	
885-11417-6	SS13@3.5'	Total/NA	Solid	300_Prep	
885-11417-7	SS14@0.5'	Total/NA	Solid	300_Prep	
885-11417-8	SS14@3.5'	Total/NA	Solid	300_Prep	
885-11417-9	SS15@0.5'	Total/NA	Solid	300_Prep	
885-11417-10	SS15@3.5'	Total/NA	Solid	300_Prep	
885-11417-11	SS16@0.5'	Total/NA	Solid	300_Prep	
885-11417-12	SS16@3.5'	Total/NA	Solid	300_Prep	
MB 885-12047/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-12047/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-11417-9 MS	SS15@0.5'	Total/NA	Solid	300_Prep	
885-11417-9 MSD	SS15@0.5'	Total/NA	Solid	300_Prep	

Analysis Batch: 12093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11417-1	SS08@3.5'	Total/NA	Solid	300.0	12047
885-11417-2	SS09@3.5'	Total/NA	Solid	300.0	12047
885-11417-3	SS10@3.5'	Total/NA	Solid	300.0	12047
885-11417-4	SS11@3.5'	Total/NA	Solid	300.0	12047
885-11417-5	SS12@3.5'	Total/NA	Solid	300.0	12047
885-11417-6	SS13@3.5'	Total/NA	Solid	300.0	12047
885-11417-7	SS14@0.5'	Total/NA	Solid	300.0	12047
885-11417-8	SS14@3.5'	Total/NA	Solid	300.0	12047
885-11417-9	SS15@0.5'	Total/NA	Solid	300.0	12047
885-11417-10	SS15@3.5'	Total/NA	Solid	300.0	12047
885-11417-11	SS16@0.5'	Total/NA	Solid	300.0	12047
885-11417-12	SS16@3.5'	Total/NA	Solid	300.0	12047
MB 885-12047/1-A	Method Blank	Total/NA	Solid	300.0	12047
LCS 885-12047/2-A	Lab Control Sample	Total/NA	Solid	300.0	12047
885-11417-9 MS	SS15@0.5'	Total/NA	Solid	300.0	12047
885-11417-9 MSD	SS15@0.5'	Total/NA	Solid	300.0	12047

Prep Batch: 12213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-12213/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-12213/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 12227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-12213/1-A	Method Blank	Total/NA	Solid	300.0	12213

Prep Batch: 12240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-12240/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-12240/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

HPLC/IC

Analysis Batch: 12262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-12240/1-A	Method Blank	Total/NA	Solid	300.0	12240
LCS 885-12240/2-A	Lab Control Sample	Total/NA	Solid	300.0	12240

Analysis Batch: 12355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-12213/1-A	Method Blank	Total/NA	Solid	300.0	12213
LCS 885-12213/2-A	Lab Control Sample	Total/NA	Solid	300.0	12213

General Chemistry

Analysis Batch: 12412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11417-1	SS08@3.5'	Total/NA	Solid	9040C	
885-11417-2	SS09@3.5'	Total/NA	Solid	9040C	
885-11417-3	SS10@3.5'	Total/NA	Solid	9040C	
885-11417-4	SS11@3.5'	Total/NA	Solid	9040C	
885-11417-5	SS12@3.5'	Total/NA	Solid	9040C	
885-11417-6	SS13@3.5'	Total/NA	Solid	9040C	
885-11417-7	SS14@0.5'	Total/NA	Solid	9040C	
885-11417-8	SS14@3.5'	Total/NA	Solid	9040C	
885-11417-9	SS15@0.5'	Total/NA	Solid	9040C	
885-11417-10	SS15@3.5'	Total/NA	Solid	9040C	
885-11417-11	SS16@0.5'	Total/NA	Solid	9040C	
885-11417-12	SS16@3.5'	Total/NA	Solid	9040C	
885-11417-1 DU	SS08@3.5'	Total/NA	Solid	9040C	

Lab Chronicle

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

Client Sample ID: SS08@3.5'
Date Collected: 09/09/24 10:15
Date Received: 09/10/24 07:15

Lab Sample ID: 885-11417-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11936	JP	EET ALB	09/10/24 11:11
Total/NA	Analysis	8015M/D		1	12112	AT	EET ALB	09/11/24 12:57
Total/NA	Prep	5030C			11936	JP	EET ALB	09/10/24 11:11
Total/NA	Analysis	8021B		1	12114	AT	EET ALB	09/11/24 12:57
Total/NA	Prep	SHAKE			12008	KR	EET ALB	09/11/24 11:22
Total/NA	Analysis	8015M/D		1	12013	KR	EET ALB	09/12/24 06:21
Total/NA	Prep	300_Prep			12047	EH	EET ALB	09/11/24 13:14
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 20:01
Total/NA	Analysis	9040C		1	12412	MA	EET ALB	09/17/24 12:15

Client Sample ID: SS09@3.5'
Date Collected: 09/09/24 10:30
Date Received: 09/10/24 07:15

Lab Sample ID: 885-11417-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11936	JP	EET ALB	09/10/24 11:11
Total/NA	Analysis	8015M/D		1	12112	AT	EET ALB	09/11/24 14:02
Total/NA	Prep	5030C			11936	JP	EET ALB	09/10/24 11:11
Total/NA	Analysis	8021B		1	12114	AT	EET ALB	09/11/24 14:02
Total/NA	Prep	SHAKE			12008	KR	EET ALB	09/11/24 11:22
Total/NA	Analysis	8015M/D		1	12013	KR	EET ALB	09/12/24 06:46
Total/NA	Prep	300_Prep			12047	EH	EET ALB	09/11/24 13:14
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 21:19
Total/NA	Analysis	9040C		1	12412	MA	EET ALB	09/17/24 12:15

Client Sample ID: SS10@3.5'
Date Collected: 09/09/24 10:40
Date Received: 09/10/24 07:15

Lab Sample ID: 885-11417-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11936	JP	EET ALB	09/10/24 11:11
Total/NA	Analysis	8015M/D		1	12112	AT	EET ALB	09/11/24 15:08
Total/NA	Prep	5030C			11936	JP	EET ALB	09/10/24 11:11
Total/NA	Analysis	8021B		1	12114	AT	EET ALB	09/11/24 15:08
Total/NA	Prep	SHAKE			12008	KR	EET ALB	09/11/24 11:22
Total/NA	Analysis	8015M/D		1	12120	KR	EET ALB	09/13/24 00:04
Total/NA	Prep	300_Prep			12047	EH	EET ALB	09/11/24 13:14
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 21:32
Total/NA	Analysis	9040C		1	12412	MA	EET ALB	09/17/24 12:15

Lab Chronicle

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

Client Sample ID: SS11@3.5'
Date Collected: 09/09/24 10:55
Date Received: 09/10/24 07:15

Lab Sample ID: 885-11417-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11936	JP	EET ALB	09/10/24 11:11
Total/NA	Analysis	8015M/D		1	12112	AT	EET ALB	09/11/24 15:29
Total/NA	Prep	5030C			11936	JP	EET ALB	09/10/24 11:11
Total/NA	Analysis	8021B		1	12114	AT	EET ALB	09/11/24 15:29
Total/NA	Prep	SHAKE			12008	KR	EET ALB	09/11/24 11:22
Total/NA	Analysis	8015M/D		1	12120	KR	EET ALB	09/13/24 00:16
Total/NA	Prep	300_Prep			12047	EH	EET ALB	09/11/24 13:14
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 21:44
Total/NA	Analysis	9040C		1	12412	MA	EET ALB	09/17/24 12:15

Client Sample ID: SS12@3.5'
Date Collected: 09/09/24 11:10
Date Received: 09/10/24 07:15

Lab Sample ID: 885-11417-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11936	JP	EET ALB	09/10/24 11:11
Total/NA	Analysis	8015M/D		1	12112	AT	EET ALB	09/11/24 15:51
Total/NA	Prep	5030C			11936	JP	EET ALB	09/10/24 11:11
Total/NA	Analysis	8021B		1	12114	AT	EET ALB	09/11/24 15:51
Total/NA	Prep	SHAKE			12008	KR	EET ALB	09/11/24 11:22
Total/NA	Analysis	8015M/D		1	12208	DH	EET ALB	09/13/24 10:35
Total/NA	Prep	300_Prep			12047	EH	EET ALB	09/11/24 13:14
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 21:58
Total/NA	Analysis	9040C		1	12412	MA	EET ALB	09/17/24 12:15

Client Sample ID: SS13@3.5'
Date Collected: 09/09/24 11:25
Date Received: 09/10/24 07:15

Lab Sample ID: 885-11417-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11936	JP	EET ALB	09/10/24 11:11
Total/NA	Analysis	8015M/D		1	12112	AT	EET ALB	09/11/24 16:13
Total/NA	Prep	5030C			11936	JP	EET ALB	09/10/24 11:11
Total/NA	Analysis	8021B		1	12114	AT	EET ALB	09/11/24 16:13
Total/NA	Prep	SHAKE			12008	KR	EET ALB	09/11/24 11:22
Total/NA	Analysis	8015M/D		1	12208	DH	EET ALB	09/13/24 10:59
Total/NA	Prep	300_Prep			12047	EH	EET ALB	09/11/24 13:14
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 22:11
Total/NA	Analysis	9040C		1	12412	MA	EET ALB	09/17/24 12:15

Lab Chronicle

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

Client Sample ID: SS14@0.5'
Date Collected: 09/09/24 11:30
Date Received: 09/10/24 07:15

Lab Sample ID: 885-11417-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11936	JP	EET ALB	09/10/24 11:11
Total/NA	Analysis	8015M/D		1	12112	AT	EET ALB	09/11/24 16:35
Total/NA	Prep	5030C			11936	JP	EET ALB	09/10/24 11:11
Total/NA	Analysis	8021B		1	12114	AT	EET ALB	09/11/24 16:35
Total/NA	Prep	SHAKE			12008	KR	EET ALB	09/11/24 11:22
Total/NA	Analysis	8015M/D		1	12119	KR	EET ALB	09/12/24 15:58
Total/NA	Prep	300_Prep			12047	EH	EET ALB	09/11/24 13:14
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 22:23
Total/NA	Analysis	9040C		1	12412	MA	EET ALB	09/17/24 12:15

Client Sample ID: SS14@3.5'
Date Collected: 09/09/24 11:40
Date Received: 09/10/24 07:15

Lab Sample ID: 885-11417-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11936	JP	EET ALB	09/10/24 11:11
Total/NA	Analysis	8015M/D		1	12112	AT	EET ALB	09/11/24 17:18
Total/NA	Prep	5030C			11936	JP	EET ALB	09/10/24 11:11
Total/NA	Analysis	8021B		1	12114	AT	EET ALB	09/11/24 17:18
Total/NA	Prep	SHAKE			12008	KR	EET ALB	09/11/24 11:22
Total/NA	Analysis	8015M/D		1	12208	DH	EET ALB	09/13/24 11:23
Total/NA	Prep	300_Prep			12047	EH	EET ALB	09/11/24 13:14
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 22:36
Total/NA	Analysis	9040C		1	12412	MA	EET ALB	09/17/24 12:15

Client Sample ID: SS15@0.5'
Date Collected: 09/09/24 11:45
Date Received: 09/10/24 07:15

Lab Sample ID: 885-11417-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11936	JP	EET ALB	09/10/24 11:11
Total/NA	Analysis	8015M/D		1	12112	AT	EET ALB	09/11/24 17:40
Total/NA	Prep	5030C			11936	JP	EET ALB	09/10/24 11:11
Total/NA	Analysis	8021B		1	12114	AT	EET ALB	09/11/24 17:40
Total/NA	Prep	SHAKE			12008	KR	EET ALB	09/11/24 11:22
Total/NA	Analysis	8015M/D		1	12119	KR	EET ALB	09/12/24 17:12
Total/NA	Prep	300_Prep			12047	EH	EET ALB	09/11/24 13:14
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 23:15
Total/NA	Analysis	9040C		1	12412	MA	EET ALB	09/17/24 12:15

Lab Chronicle

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

Client Sample ID: SS15@3.5'
Date Collected: 09/09/24 11:50
Date Received: 09/10/24 07:15

Lab Sample ID: 885-11417-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11936	JP	EET ALB	09/10/24 11:11
Total/NA	Analysis	8015M/D		1	12112	AT	EET ALB	09/11/24 18:02
Total/NA	Prep	5030C			11936	JP	EET ALB	09/10/24 11:11
Total/NA	Analysis	8021B		1	12114	AT	EET ALB	09/11/24 18:02
Total/NA	Prep	SHAKE			12008	KR	EET ALB	09/11/24 11:22
Total/NA	Analysis	8015M/D		1	12208	DH	EET ALB	09/13/24 11:47
Total/NA	Prep	300_Prep			12047	EH	EET ALB	09/11/24 13:14
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/11/24 23:54
Total/NA	Analysis	9040C		1	12412	MA	EET ALB	09/17/24 12:15

Client Sample ID: SS16@0.5'
Date Collected: 09/09/24 12:00
Date Received: 09/10/24 07:15

Lab Sample ID: 885-11417-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11936	JP	EET ALB	09/10/24 11:11
Total/NA	Analysis	8015M/D		1	12112	AT	EET ALB	09/11/24 18:24
Total/NA	Prep	5030C			11936	JP	EET ALB	09/10/24 11:11
Total/NA	Analysis	8021B		1	12114	AT	EET ALB	09/11/24 18:24
Total/NA	Prep	SHAKE			12008	KR	EET ALB	09/11/24 11:22
Total/NA	Analysis	8015M/D		1	12119	KR	EET ALB	09/12/24 18:26
Total/NA	Prep	300_Prep			12047	EH	EET ALB	09/11/24 13:14
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/12/24 00:07
Total/NA	Analysis	9040C		1	12412	MA	EET ALB	09/17/24 12:15

Client Sample ID: SS16@3.5'
Date Collected: 09/09/24 12:05
Date Received: 09/10/24 07:15

Lab Sample ID: 885-11417-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			11936	JP	EET ALB	09/10/24 11:11
Total/NA	Analysis	8015M/D		1	12112	AT	EET ALB	09/11/24 18:45
Total/NA	Prep	5030C			11936	JP	EET ALB	09/10/24 11:11
Total/NA	Analysis	8021B		1	12114	AT	EET ALB	09/11/24 18:45
Total/NA	Prep	SHAKE			12008	KR	EET ALB	09/11/24 11:22
Total/NA	Analysis	8015M/D		1	12119	KR	EET ALB	09/12/24 18:50
Total/NA	Prep	300_Prep			12047	EH	EET ALB	09/11/24 13:14
Total/NA	Analysis	300.0		20	12093	EH	EET ALB	09/12/24 00:19
Total/NA	Analysis	9040C		1	12412	MA	EET ALB	09/17/24 12:15

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Harvest
Project/Site: Val Verde

Job ID: 885-11417-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

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

Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
9040C		Solid	pH

Oregon	NELAP	NM100001	02-26-25

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

Analysis Method	Prep Method	Matrix	Analyte
9040C		Solid	pH

Chain-of-Custody Record

Client: Harvest Four Corners
Monica Smith
Mailing Address:
Phone #:
email or Fax#: msmith@harvestmidstream.com
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: 5day
☒ Standard ☐ Rush
Project Name: Val Verde
Project #:
Project Manager: Sydney Hannay - Ensolum
Sampler: E. carroll
On Ice: ☐ Yes ☐ No
# of Coolers: 1 Chucky
Cooler Temp(including CF): 2.3+0.3=2.6 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107
885-11417 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMBs (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	pH
9-9-24	1015	soil	SS08 @ 3.5'	1 4oz	HCl	1	X	X					X				X
	1050		SS09 @ 3.5'			2											
	1040		SS10 @ 3.5'			3											
	1055		SS11 @ 3.5'			4											
	1110		SS12 @ 3.5'			5											
	1125		SS13 @ 3.5'			6											
	1130		SS14 @ 0.5'			7											
	1140		SS14 @ 3.5'			8											
	1145		SS15 @ 0.5'			9											
	1150		SS15 @ 3.5'			10											
	1200		SS16 @ 0.5'			11											
	1205		SS16 @ 3.5'			12											

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9-9	1230				9/9/24	1230
9/9/24	1719			courier	9/10/24	715

Remarks: cc: ecarroll@ensolum.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Harvest Job Number: 885-11417-1

Login Number: 11417 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

District I
1625 N. French Dr., Hobbs, NM 88240
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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

QUESTIONS

Action 386473

QUESTIONS

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 386473
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2418530973**
Incident Name	**NAPP2418530973 VAL VERDE @ 0**
Incident Type	**Other**
Incident Status	**Deferral Request Received**
Incident Facility	**[fGP00000000031] VAL VERDE GP**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Val Verde
Date Release Discovered	06/28/2024
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	Cause: Equipment Failure | Valve | Other (Specify) | Released: 512 GAL | Recovered: 0 GAL | Lost: 512 GAL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Approximately 512 gallons of amine released.

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

QUESTIONS (continued)

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 386473
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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.

I hereby agree and sign off to the above statement	Name: Brooke Herb Title: regulatory analyst Email: bherb@ensolum.com Date: 09/24/2024

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State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 386473
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 300 and 500 (ft.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 300 and 500 (ft.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Between 500 and 1000 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	0
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1470
GRO+DRO (EPA SW-846 Method 8015M)	720
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	06/28/2024
On what date will (or did) the final sampling or liner inspection occur	09/09/2024
On what date will (or was) the remediation complete(d)	06/28/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 386473
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	Remediation Deferred
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
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.	
I hereby agree and sign off to the above statement	Name: Brooke Herb Title: regulatory analyst Email: bherb@ensolum.com Date: 09/24/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 386473
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only *Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Gas Plant Process Lines and Storage
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	2320
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	200
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (f#) on which this deferral should be granted	VAL VERDE GP [fGP00000000031]
Enter the well API (30-) on which this deferral should be granted	*Not answered.*
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
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.	
I hereby agree and sign off to the above statement	Name: Brooke Herb Title: regulatory analyst Email: bherb@ensolum.com Date: 09/24/2024

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QUESTIONS (continued)

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 386473
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	*{Unavailable.}*

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 386473

CONDITIONS

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 386473
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	Deferral approved. Deferral of SS01 through SS16 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	11/5/2024