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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party: Hile	orn Fnergy			OGRID 3	72171		
Contact Nam		1 00			Contact Telephone: 346-237-2275			
					-			
		n@hilcorp.com			Incident #	(assigned by OCD): nAPP2128435279		
Contact mail	ing address:	1111 Travis St. H	Houston, TX 770	002				
			Location	n of Re	lease So	ource		
Latitude 36.5	9151		(NAD 83 in a	L decimal degra	ongitude - ees to 5 decin	-107.87046		
Site Name: F	R B Sullivan	#3F			Site Type:	Well Site		
Date Release	Discovered	: 10/5/2021		1	API# (if app	plicable): 30-045-34304		
Unit Letter	Section	Township	Range		Coun	nty		
Е	11	027N	010W	San Ju		<u></u>		
Surface Owne		Federal T	Nature ar	nd Volu		Release justification for the volumes provided below)		
Crude Oi		Volume Release				Volume Recovered (bbls)		
Noduced Produced	Water	Volume Release	ed 15 bbls			Volume Recovered (bbls)		
		Is the concentra produced water	tion of dissolved >10,000 mg/l?	l chloride i	n the	☐ Yes ⊠ No		
Condensa	nte	Volume Release				Volume Recovered (bbls) 8 bbls		
Natural C	ias	Volume Release	ed (Mcf)			Volume Recovered (Mcf)		
Other (de	scribe)	Volume/Weight	Released (provi	ide units)		Volume/Weight Recovered (provide units)		
Cause of Re	lease: Hole	in the side of the	tank due to corro	osion resul	ted in a rele	ease inside the containment area.		

Received by OCD: 12/31/2021 11:51:23 AM Form C-141 State of New Mexico Page 2 Oil Conservation Division

P	age	2	oj	[7]

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible	e party consider this a major release?
19.15.29.7(A) NMAC?		
☐ Yes ⊠ No		
If VES, was immediate no	notice given to the OCD? By whom? To whom?	When and by what means (phone email etc)?
ii 125, was iiiiiicatate ii	Notice given to the OCD. By whom. To whom.	when that by what means (phone, email, etc).
	Initial Resp	onse
The responsible	party must undertake the following actions immediately unle	ss they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
The impacted area ha	as been secured to protect human health and the e	environment.
Released materials ha	ave been contained via the use of berms or dikes.	absorbent pads, or other containment devices.
All free liquids and re	recoverable materials have been removed and ma	naged appropriately.
If all the actions described	ed above have <u>not</u> been undertaken, explain why:	
has begun, please attach	a narrative of actions to date. If remedial effor	liation immediately after discovery of a release. If remediation ts have been successfully completed or if the release occurred e attach all information needed for closure evaluation.
		of my knowledge and understand that pursuant to OCD rules and
public health or the environr	ment. The acceptance of a C-141 report by the OCD of	ons and perform corrective actions for releases which may endanger loes not relieve the operator of liability should their operations have
		groundwater, surface water, human health or the environment. In unsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name:	Kathryn H Kaufman	Title: Environmental Specialist
Signature:	Taufar D	Pate:10/11/2021
V		lephone:346-237-2275
Cinani. <u>Kkaumane ilileo</u>	<u>np.com</u>	reprione340-231-2213
OCD Only		
	Da	te:
Teccived by.	Da	

OCD: 12/31/2021 11:51:23 AM State of New Mexico Oil Conservation Division

	Page 3 of 71
Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	Yes No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes No
Are the lateral extents of the release within a 100-year floodplain?	Yes No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
1 / 1 · 9r · · · · · · · · · · · · · · · · ·	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver	tical extents of soil

contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

<u>Ch</u>	naracterization Report Checklist: Each of the following items must be included in the report.
	Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
	Field data
	Data table of soil contaminant concentration data
	Depth to water determination
	Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
	Boring or excavation logs
	Photographs including date and GIS information
	Topographic/Aerial maps Laboratory data including chain of custody

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

Received by OCD: 12/31/2021 11:51:23 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 4 of 71
Incident ID	
District RP	
Facility ID	

Application ID

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

Printed Name: __Kathryn Kaufman ______ Title: __Environmental Specialist ______

Date: __12/31/2021 _____

email: __kkaufman@hilcorp.com ______ Telephone: __346-237-2275 ______

OCD Only

Received by: ______ Date: ______

Received by OCD: 12/31/2021 11:51:23 AM Form C-141 State of New Mexico Page 6 Oil Conservation Division

	Page 5 of 71
Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following item	ns must be included in the closure report.
☐ A scaled site and sampling diagram as described in 19.15.29.11 N	NMAC
Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC D	istrict office must be notified 2 days prior to final sampling)
Description of remediation activities	
I hereby certify that the information given above is true and complete the and regulations all operators are required to report and/or file certain remay endanger public health or the environment. The acceptance of a Compliance with any other federal, state, or local laws and/or regulation restore, reclaim, and re-vegetate the impacted surface area to the OCE accordance with 19.15.29.13 NMAC including notification to the OCE	C-141 report by the OCD does not relieve the operator of liability liate contamination that pose a threat to groundwater, surface water, 141 report does not relieve the operator of responsibility for ns. The responsible party acknowledges they must substantially tions that existed prior to the release or their final land use in
Printed Name:Kathryn Kaufman Title	e:Environmental Specialist
Signature:	Date:12/31/2021
email:kkaufman@hilcorp.com T	elephone:346-237-2275
OCD Only	
Received by:	Date:
	liability should their operations have failed to adequately investigate and ter, human health, or the environment nor does not relieve the responsible regulations.
Closure Approved by: Nelson Velez Nelson Velez	Date:01/04/2022
Printed Name: Nelson Velez	Title: Environmental Specialist - Adv

Executive Summary

On October 5, 2021, Hilcorp discovered the release of 15 barrels of produced water that leaked from a hole in the side of a below ground tank at the R B Sullivan #3F well site (Incident # nAPP2128435279). The hole in the tank was due to corrosion. The release was contained to the pit area which was unlined. The release did not spread beyond that tank containment area. The reported release volume is based on strapping data for the tank and the amount of liquid recovered.

A 5-point composite sample was collected on November 3, 2021 and exceeded the NMOCD Action levels for TPH and GRO+DRO. Based on these results, Hilcorp conducted additional remediation via digging and hauling the contaminated soil offsite for disposal. The second closure samples were collected on November 23, 2021. All analytical results from the second sampling were below NMOCD Action criteria. Sample results are noted below.

Analytical Data, Sample Collected 11/3/2021 and 11/23/2021

See attached Lab Reports.

Scaled Map

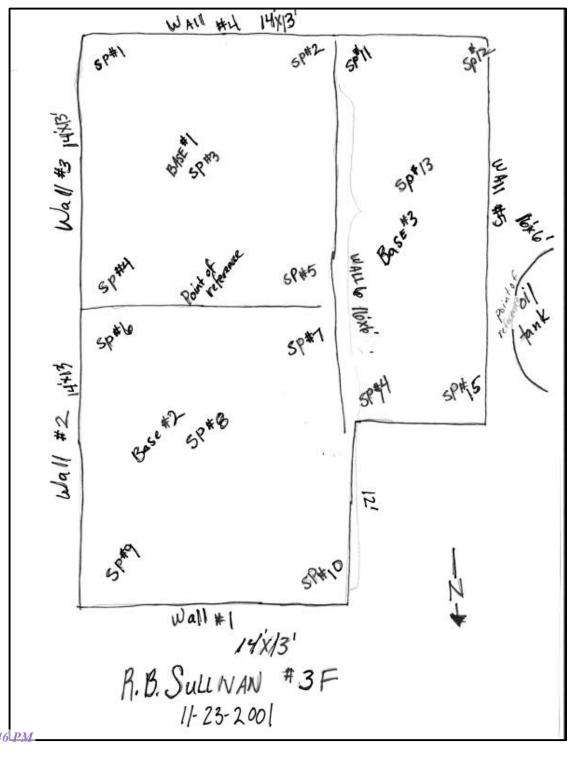
Lat: 36.59151 Long: -107.87046 RB Sullivan #3F API: 30-045-34304





Sample Locations/Field

Notes



Data table of soil contaminant concentration data

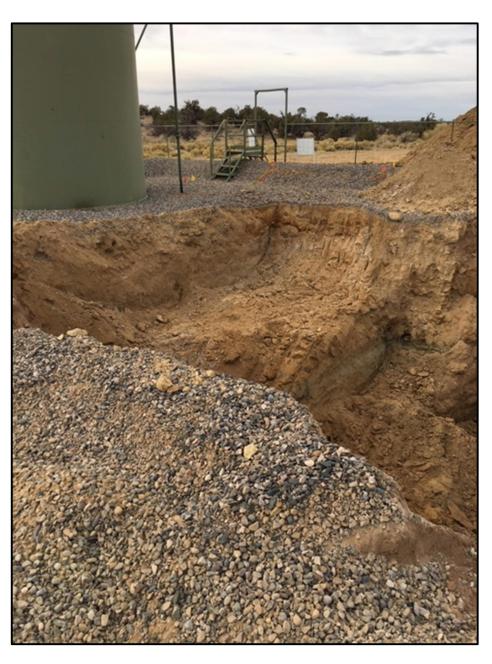
			Laboratory Results										
Sample Name	1 7 7 7	Field VOCs by PID (ppm)	Chloride (mg/kg)	TPH as DRO (mg/kg)	TPH as GRO (mg/kg)	TPH as MRO (mg/kg)	Total TPH (mg/kg)	TPH as GRO + DRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylene (mg/kg)	Total BTEX (mg/kg)
NMOCD Actio	n Level		20,000	-	-	-	2,500	1,000	10		-	-	50
C-141 Confirmation Sample	11/03/21	n/a	250	2200	110	3700	6010	2310	ND	ND	ND	0.71	0.71

Sample Name	Date	Field VOCs by PID (ppm)	RB Sullivan 3F Sample Results										
			Chloride (mg/kg)	TPH as DRO (mg/kg)	TPH as GRO (mg/kg)	TPH as MRO (mg/kg)	Total TPH (mg/kg)	TPH as GRO + DRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylene (mg/kg)	Total BTEX
NMOCD Action Level		8-8	20,000	8	. 8	3-5	2,500	1,000	10	-	2 - 2	-	50
Base 1	11/23/2021	n/a	180	12	ND	ND	12	12	ND	ND	ND	ND	ND
Base 2	11/23/2021	n/a	160	110	ND	270	380	110	ND	ND	ND	ND	ND
Base 3	11/23/2021	n/a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Wall 1	11/23/2021	n/a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Wall 2	11/23/2021	n/a	340	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Wall 3	11/23/2021	n/a	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Wall 4	11/23/2021	n/a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Wall 5	11/23/2021	n/a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Wall 6	11/23/2021	n/a	230	120	ND	230	350	120	ND	ND	ND	ND	ND

Confirmation samples were collected on 11/3/2021 and 11/23/2021 by Hilcorp personnel. Samples collected on 11/23 came back below NMOCD 19.15.29.12.D Table 1 closure criteria.

Sampling Site Photographs – 11/23/2021

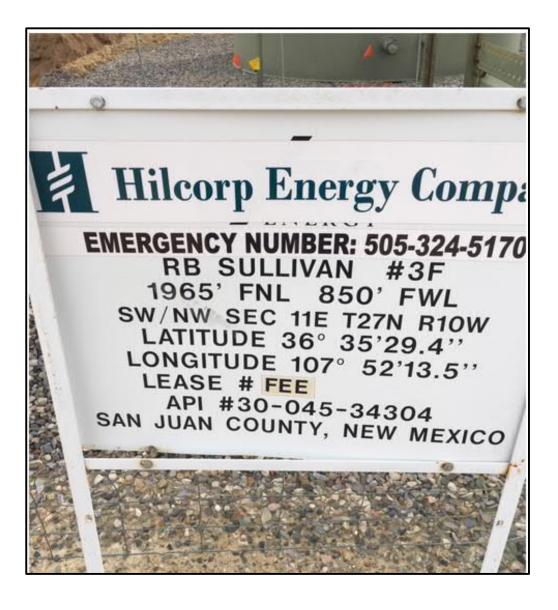




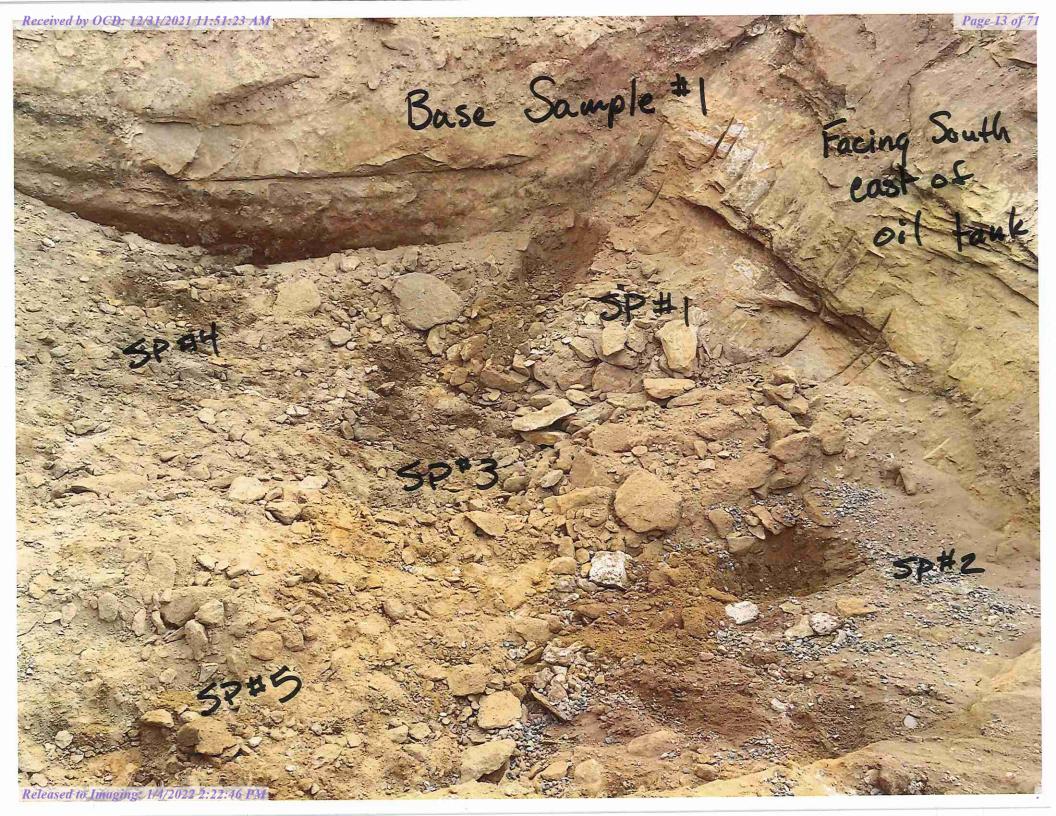
Looking north

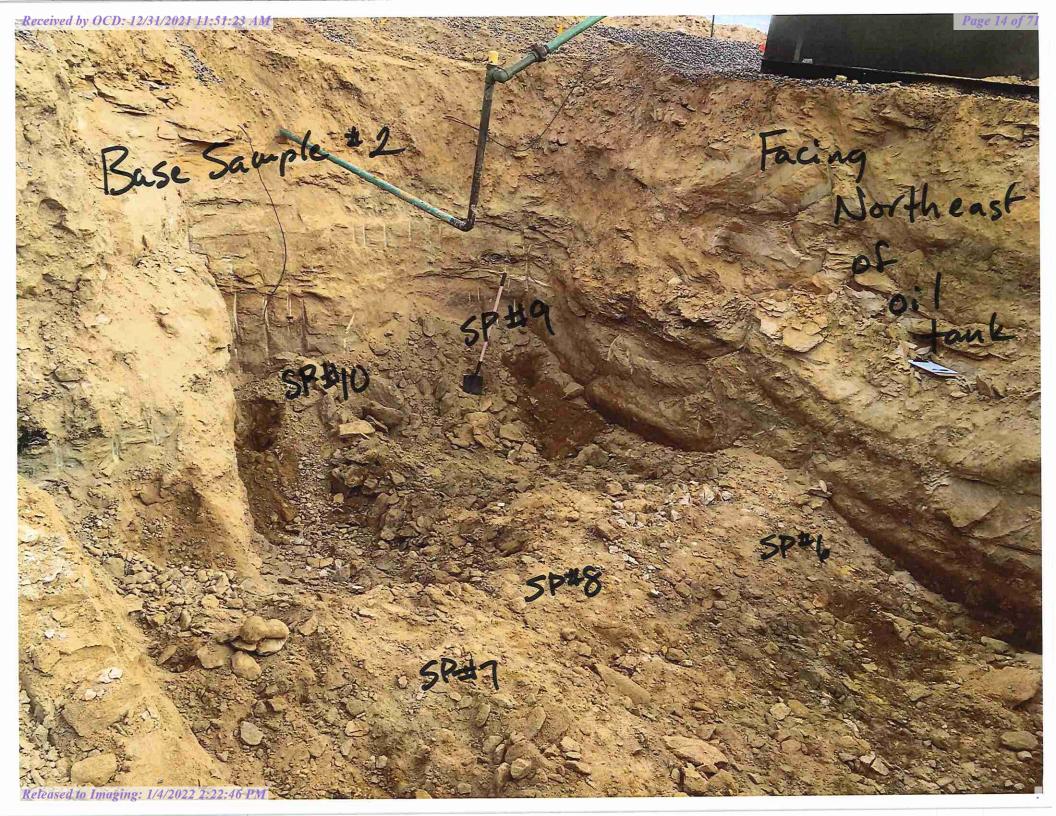
Looking southwest

Sampling Site Photographs – 11/23/2021

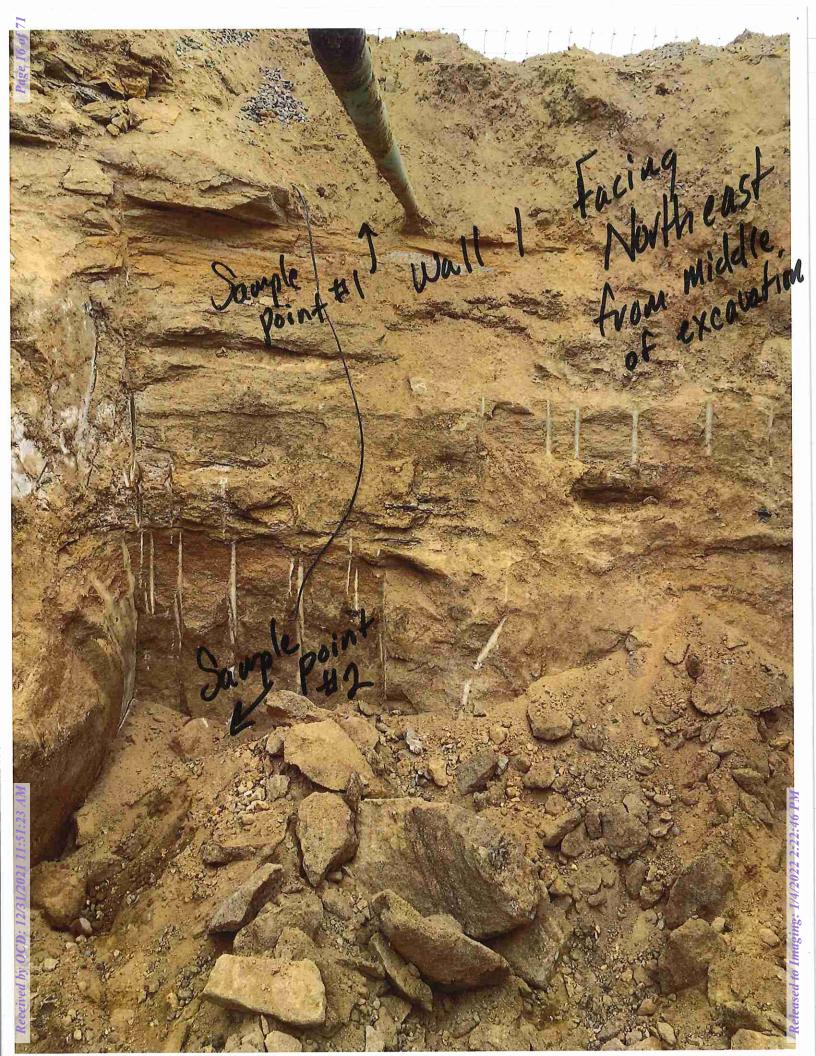


See additional sample photos attached.





Facing North eask of tank

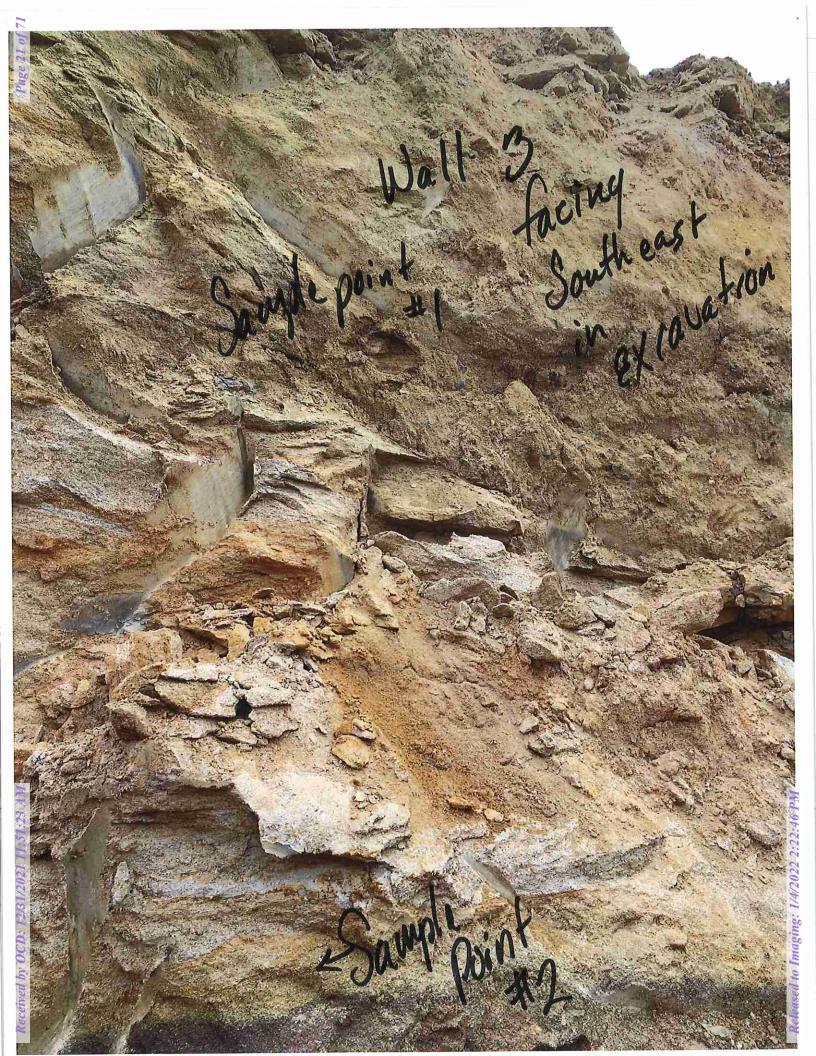


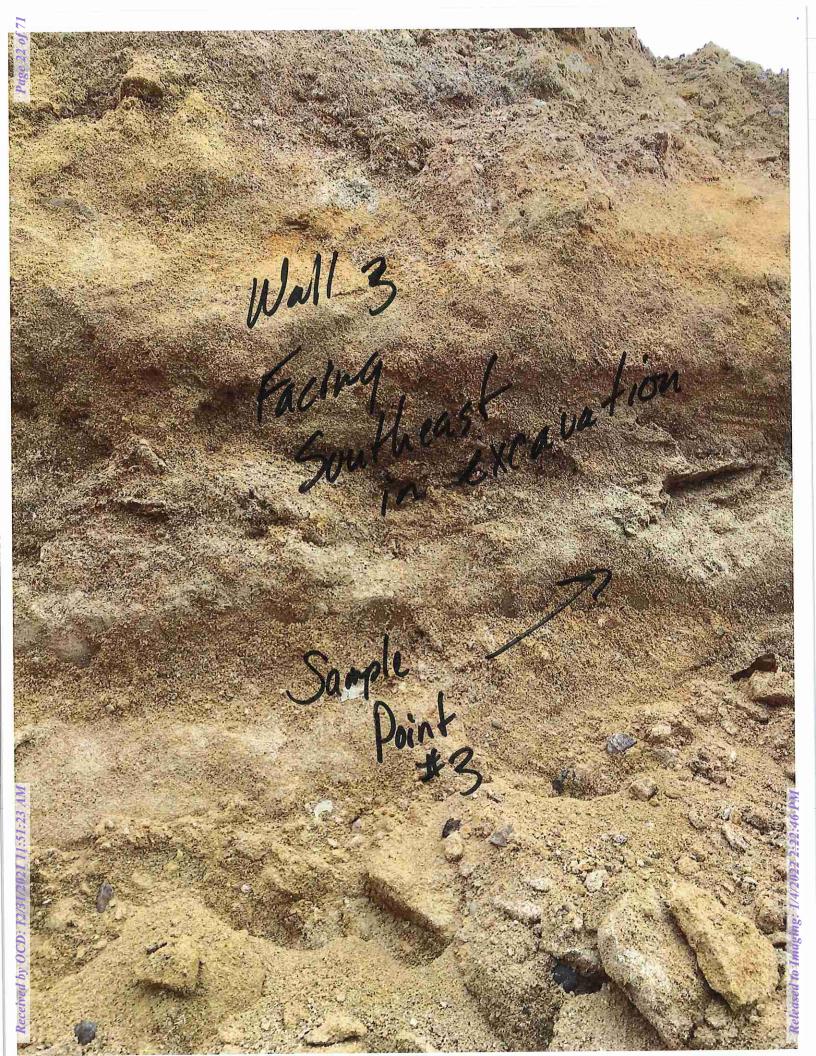
Factory North east Wall in madte ce ex carake s-Sample #4 Point Sample

Sample Sample Point Wall #2 Facing East in excavation Sample

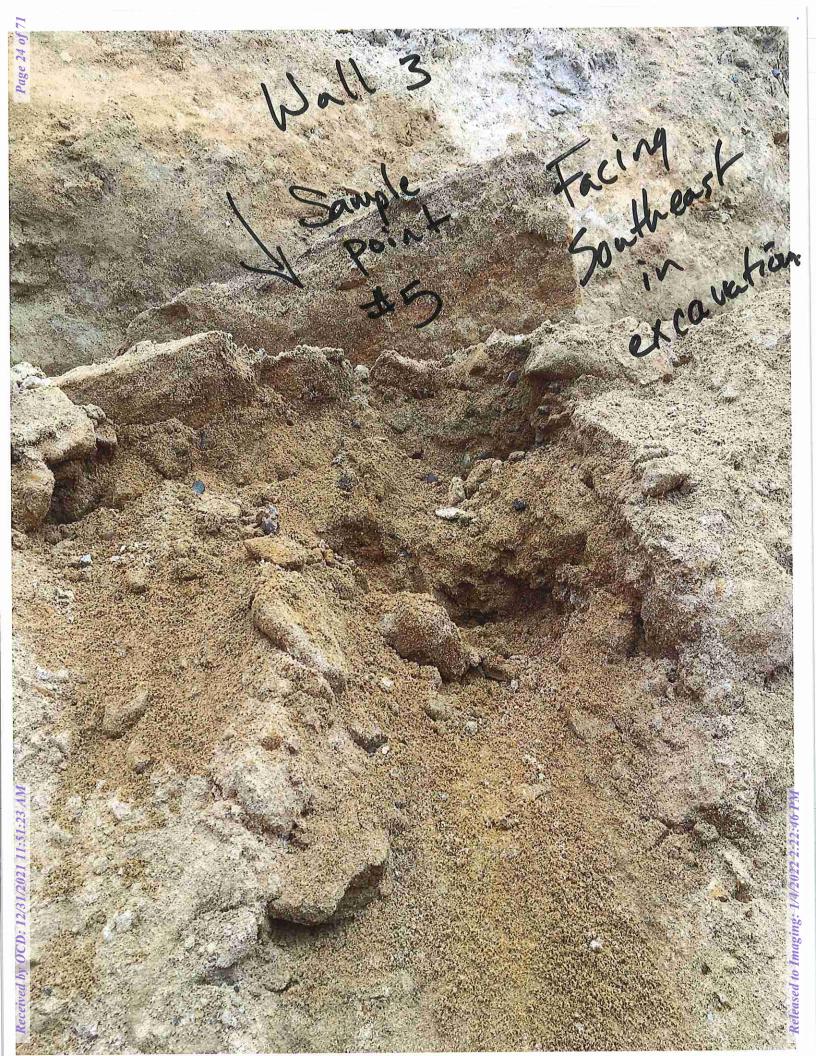
Wall 7 Facing East in excambion Sample

Wall 2 ocing invarion excavation Sarring.

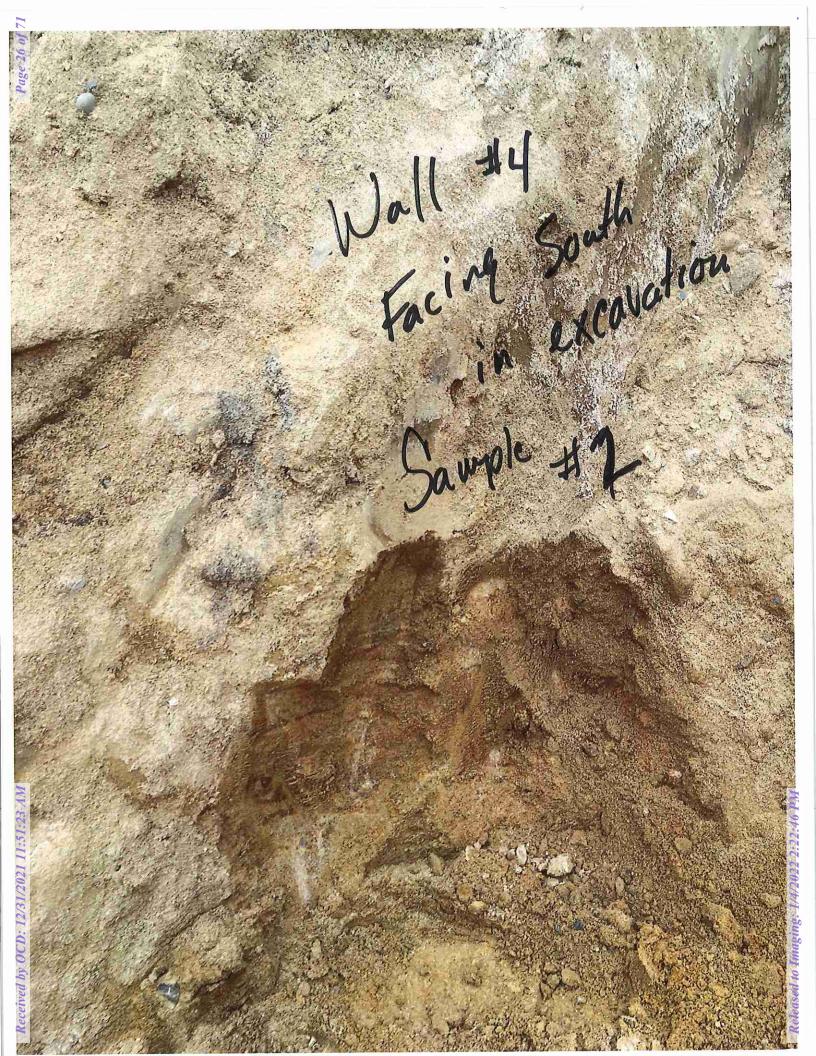


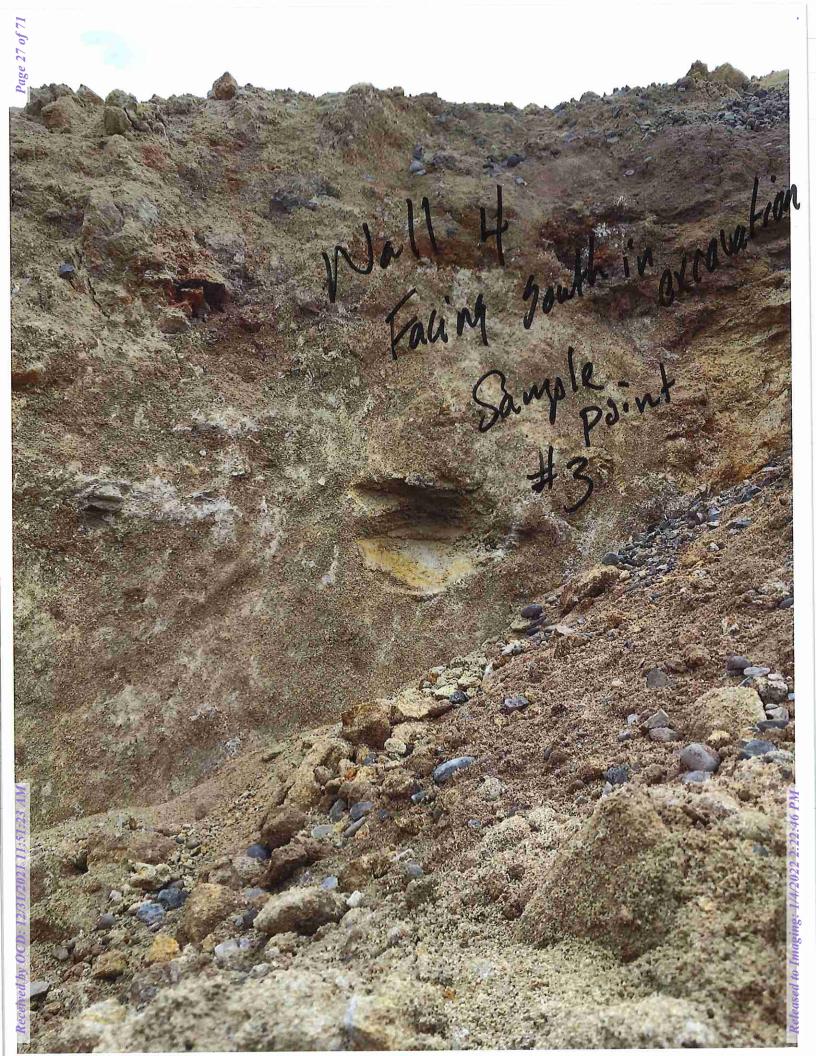


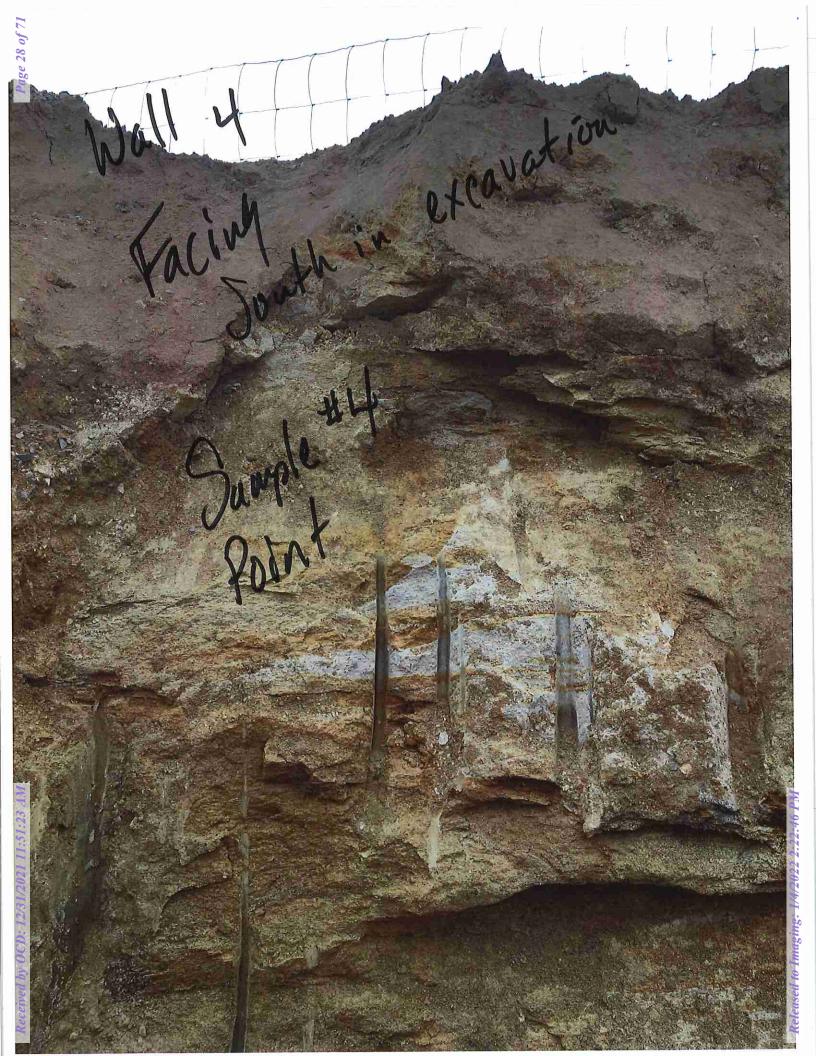
Wall 3 Carly Michael Carly Carl Sample

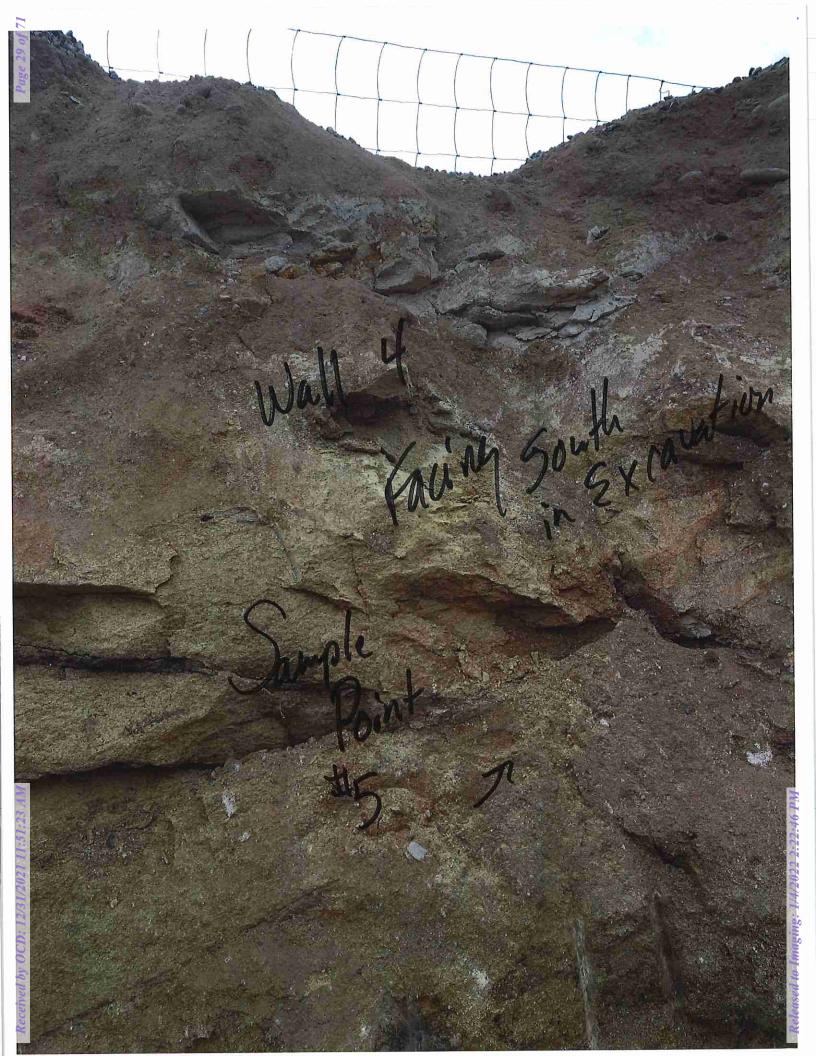


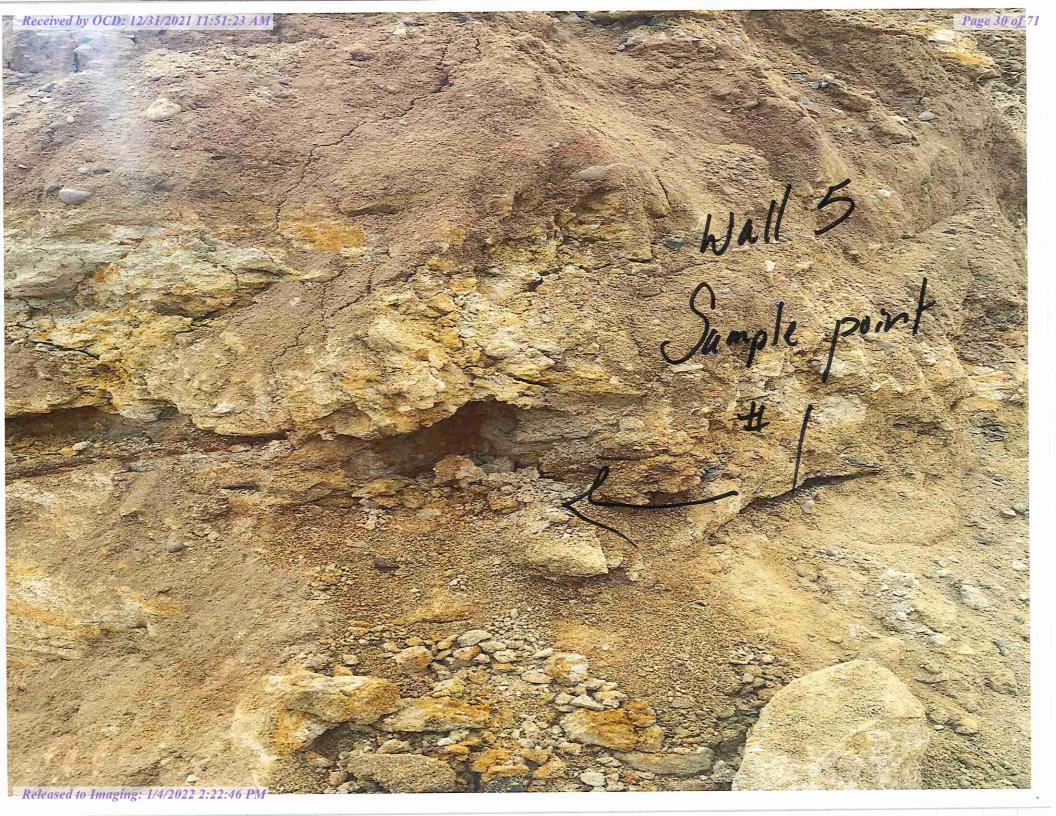
Chacher of the Sample Dink H

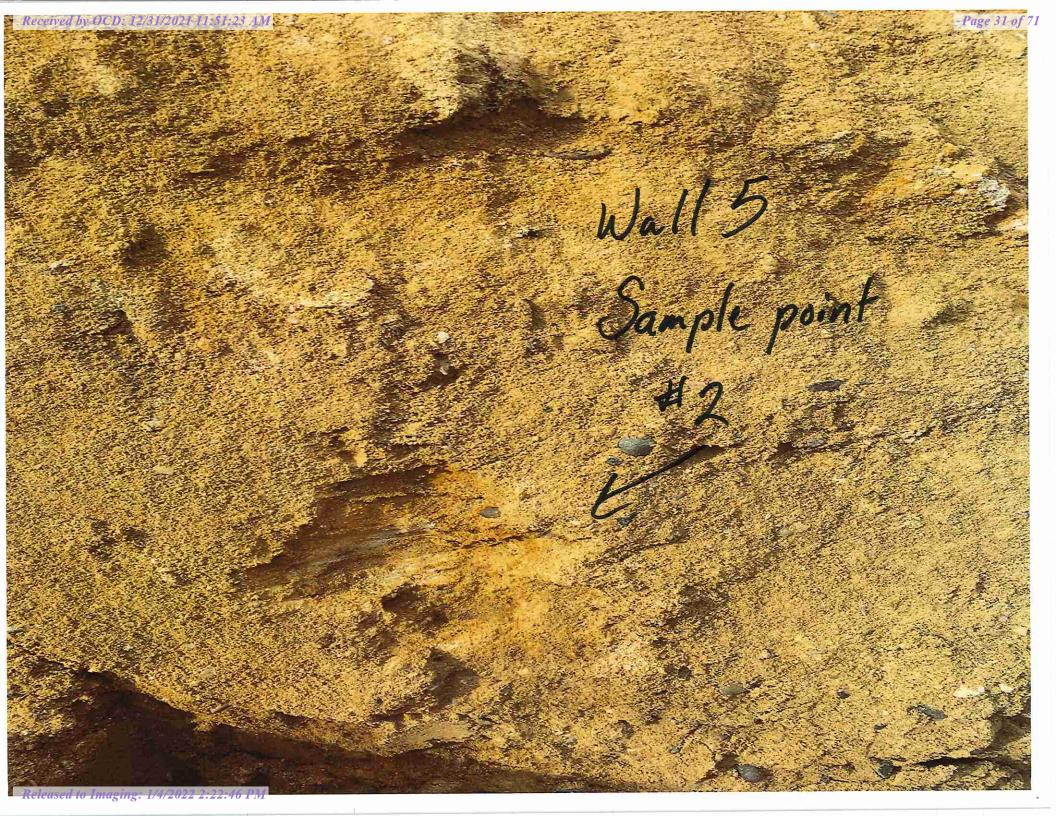


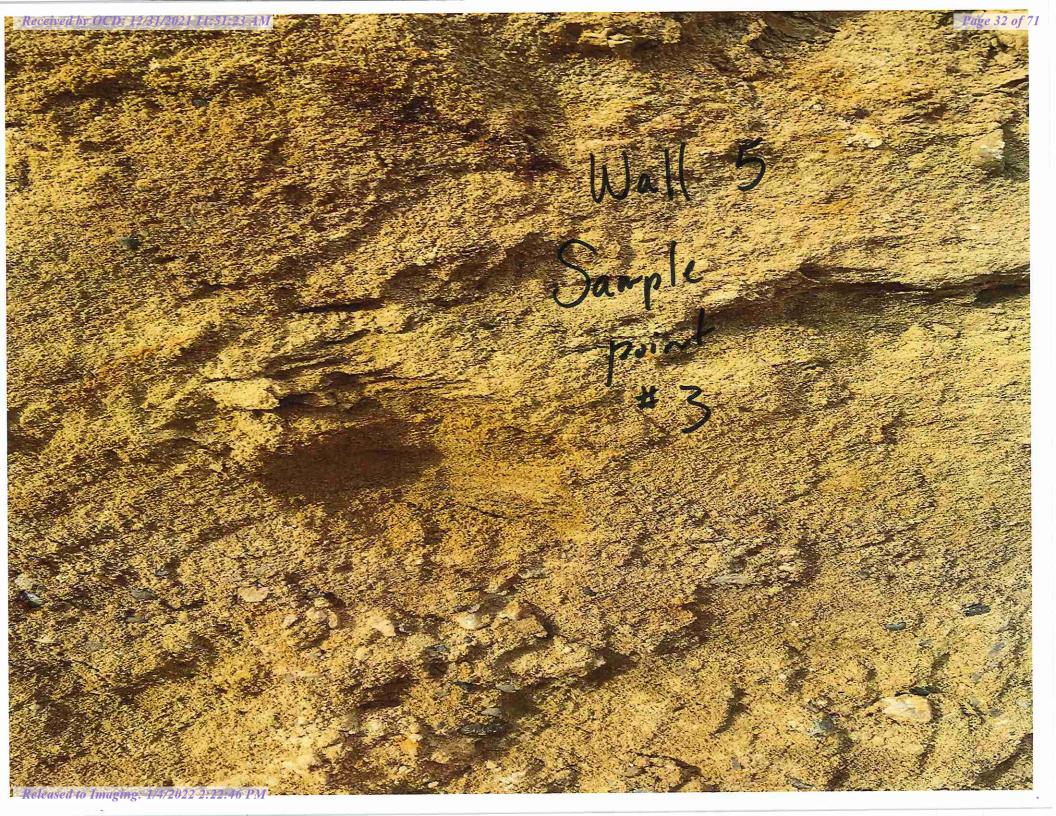




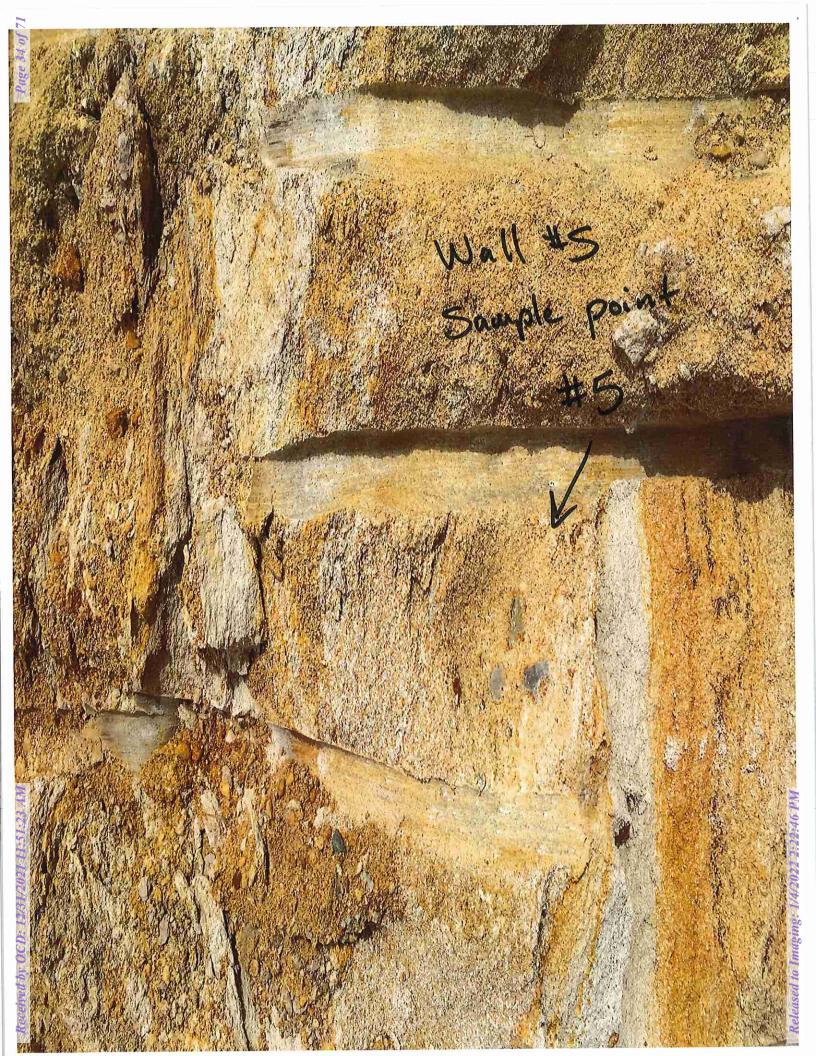


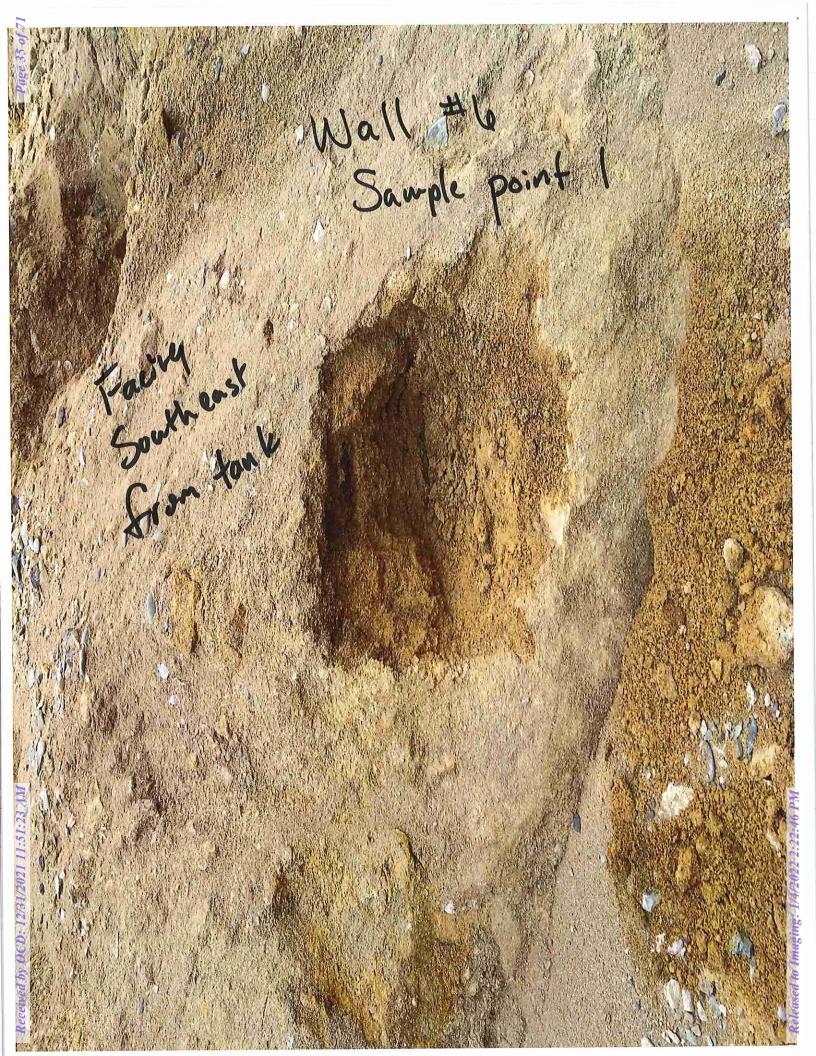


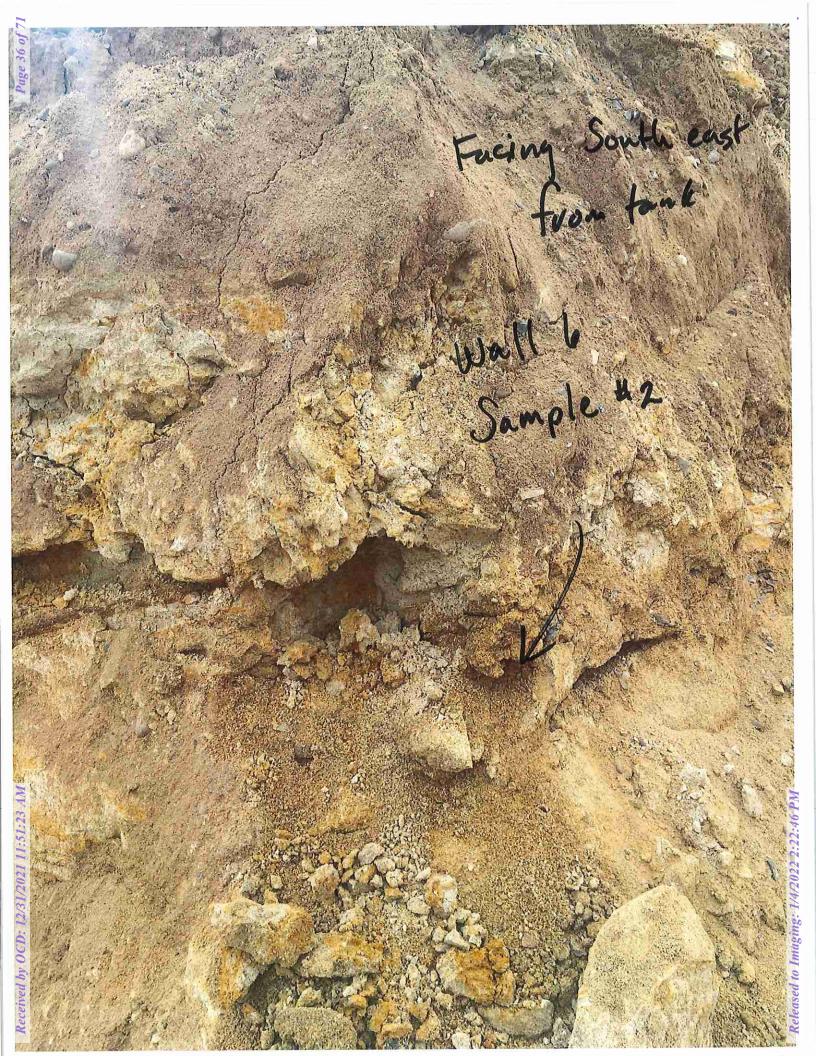


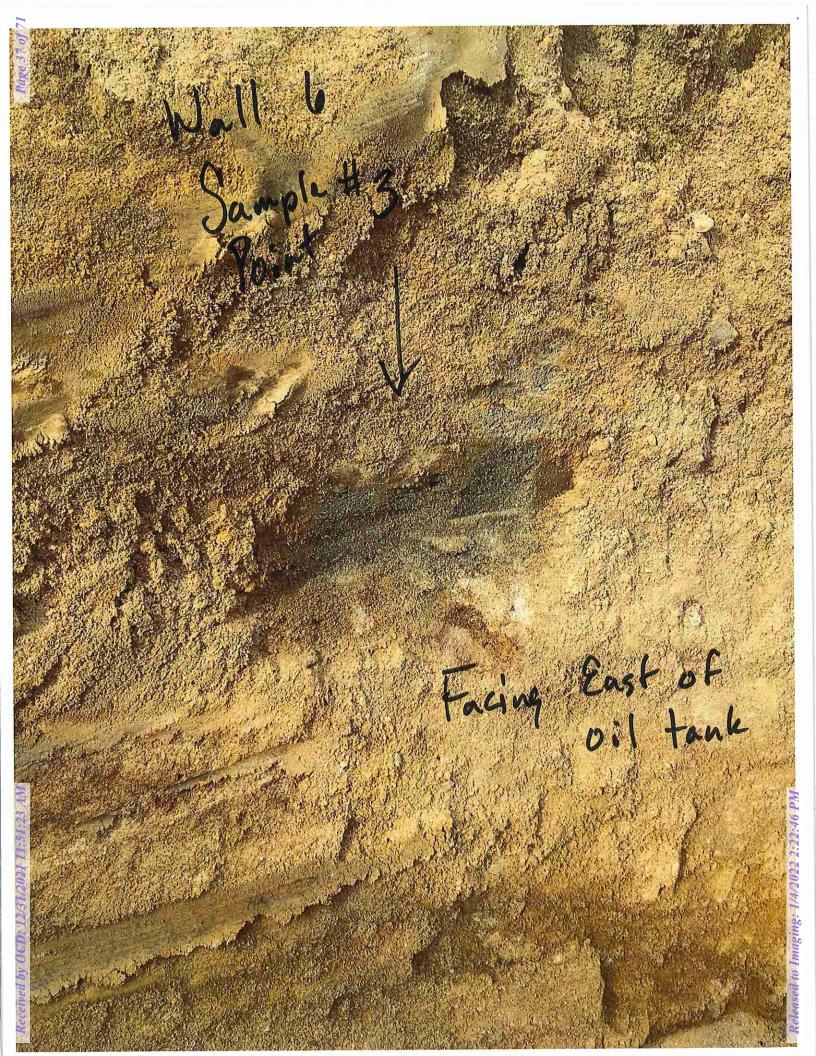


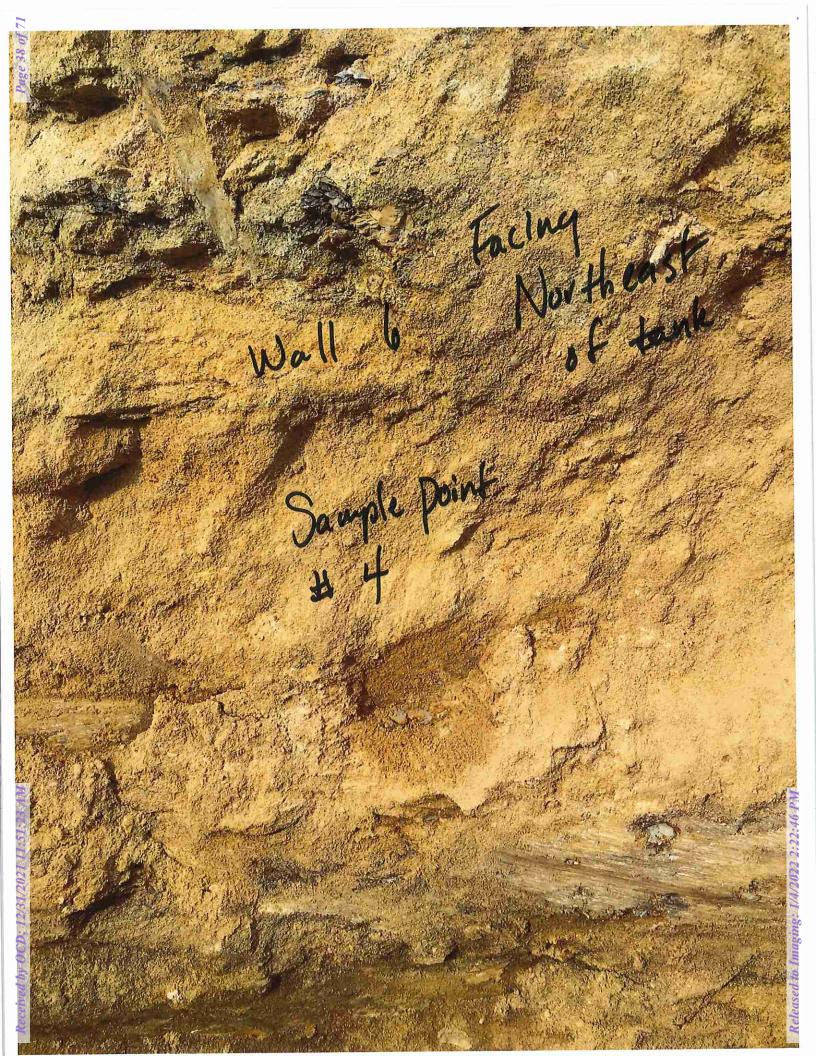


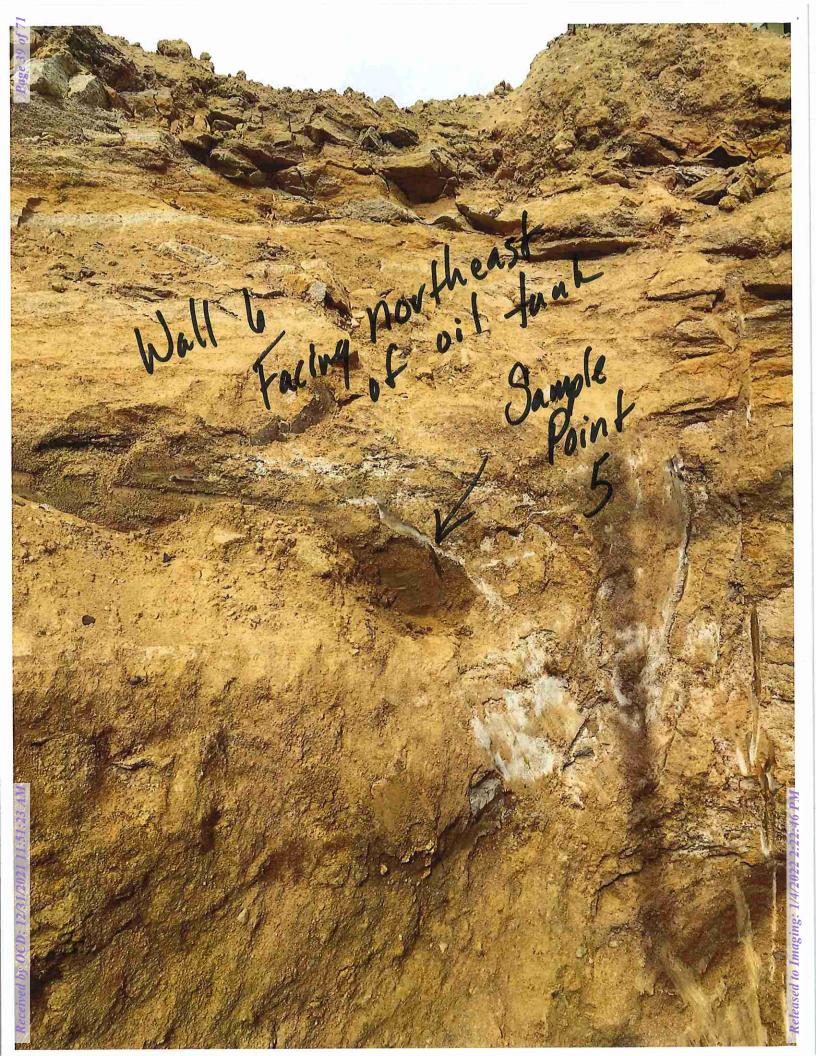














Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

November 18, 2021

Kate Kaufman HILCORP ENERGY PO Box 4700 Farmington, NM 87499

TEL: (505) 564-0733 FAX:

RE: RB Sullivan 3F

OrderNo.: 2111271

Dear Kate Kaufman:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/4/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2111271

Date Reported: 11/18/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: BGT Pit

 Project:
 RB Sullivan 3F
 Collection Date: 11/3/2021 1:00:00 PM

 Lab ID:
 2111271-001
 Matrix: SOIL
 Received Date: 11/4/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	Analyst: SB					
Diesel Range Organics (DRO)	2200	96		mg/Kg	10	11/10/2021 10:33:22 AM
Motor Oil Range Organics (MRO)	3700	480		mg/Kg	10	11/10/2021 10:33:22 AM
Surr: DNOP	0	70-130	S	%Rec	10	11/10/2021 10:33:22 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	110	4.8		mg/Kg	1	11/9/2021 3:15:28 PM
Surr: BFB	803	70-130	S	%Rec	1	11/9/2021 3:15:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/9/2021 3:15:28 PM
Toluene	ND	0.048		mg/Kg	1	11/9/2021 3:15:28 PM
Ethylbenzene	ND	0.048		mg/Kg	1	11/9/2021 3:15:28 PM
Xylenes, Total	0.71	0.096		mg/Kg	1	11/9/2021 3:15:28 PM
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	11/9/2021 3:15:28 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	250	60		mg/Kg	20	11/9/2021 5:08:30 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 1 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **2111271** *18-Nov-21*

Client: HILCORP ENERGY
Project: RB Sullivan 3F

Sample ID: MB-63840 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 63840 RunNo: 82686

Prep Date: 11/9/2021 Analysis Date: 11/9/2021 SeqNo: 2936663 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-63840 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 63840 RunNo: 82686

Prep Date: 11/9/2021 Analysis Date: 11/9/2021 SeqNo: 2936664 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.0 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

2111271 18-Nov-21

WO#:

Client: HILCORP ENERGY
Project: RB Sullivan 3F

Sample ID: MB-63789 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 63789 RunNo: 82690 Units: mg/Kg Prep Date: 11/5/2021 Analysis Date: 11/8/2021 SeqNo: 2936051 Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 8.8 10.00 88.4 70 130

Sample ID: LCS-63789 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 63789 RunNo: 82690

Prep Date: 11/5/2021 Analysis Date: 11/8/2021 SeqNo: 2936052 Units: mg/Kg

SPK value SPK Ref Val %REC Analyte PQL LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 48 10 50.00 95.7 68.9 135 Surr: DNOP 4.6 5.000 91.7 70 130

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **2111271** *18-Nov-21*

Client: HILCORP ENERGY
Project: RB Sullivan 3F

Sample ID: MB-63765 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 63765 RunNo: 82648

Prep Date: 11/4/2021 Analysis Date: 11/6/2021 SeqNo: 2933643 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 960 1000 95.8 70 130

Sample ID: LCS-63765 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 63765 RunNo: 82648

Prep Date: 11/4/2021 Analysis Date: 11/6/2021 SeqNo: 2933644 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 22 5.0 25.00 0 88.9 78.6 131 Surr: BFB 1100 109 70 1000 130

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **2111271**

18-Nov-21

Client: HILCORP ENERGY
Project: RB Sullivan 3F

Sample ID: MB-63765 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 63765 RunNo: 82648 Prep Date: 11/4/2021 Analysis Date: 11/6/2021 SeqNo: 2933696 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 1.000 97.5 70 130 Surr: 4-Bromofluorobenzene 0.97

Sample ID: Ics-63765	Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: 63	765	F	RunNo: 8	2709				
Prep Date: 11/4/2021	1 Analysis Date: 11/9/2021		alysis Date: 11/9/2021 SeqNo: 2936451 Units: mg			SeqNo: 2936451 Ur		(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit %RF		RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.5	80	120			
Toluene	0.93	0.050	1.000	0	93.0	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0 92.9 80			120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

Sample Log-In Check List

ENVIRONMENTAL ANALYSIS LABORATORY

Client Name:	HILCORP ENERGY	Work Order Nur	mber: 21	11271			RcptNo: 1
Received By:	Cheyenne Cason	11/4/2021 7:15:00) AM		Chem	L	
Completed By:	Isaiah Ortiz	11/4/2021 12:19:1	2 PM		Chem	_ (24
Reviewed By:	cu	1114/4			gaaan		
Chain of Cus	stody						
1. Is Chain of C	ustody complete?		Yes	V	No		Not Present
2. How was the	sample delivered?		Cou	<u>ırier</u>			
Log In							
3. Was an atten	npt made to cool the samp	les?	Yes	✓	No		NA 🗆
4. Were all samp	ples received at a tempera	ture of >0° C to 6.0°C	Yes	V	No		NA 🗆
5. Sample(s) in p	proper container(s)?		Yes	V	No		
6. Sufficient sam	ple volume for indicated te	est(s)?	Yes	V	No	П	
7. Are samples (except VOA and ONG) pro	perly preserved?	Yes	V	No		
	tive added to bottles?		Yes		No	TO A CONTROL OF THE PARTY OF TH	NA 🗆
9. Received at le	ast 1 vial with headspace	<1/4" for AQ VOA?	Yes		No		NA 🗹
10. Were any sam	nple containers received be	oken?	Yes		No	V	
	rk match bottle labels?		Yes	V	No		# of preserved bottles checked for pH:
	incles on chain of custody)						(<2 or >12 unless noted)
	orrectly identified on Chair analyses were requested?		Yes	V	No		Adjusted?
	ng times able to be met?	,	Yes	V			
	istomer for authorization.)		Yes	\checkmark	No	Ш	Checked by: TMC 11/4/21
	ing (if applicable)					/	
15. Was client not	tified of all discrepancies w	ith this order?	Yes		No		NA 🗹
Person I	Notified:	Date		P THE PARTY NAMED IN		-	
By Whor	m:	Via:	eMa	ail 🗆	Phone	Fax	In Person
Regardir	ng:	West of the Land State of the S] I Holle [ı ax	
Client In:	structions:			-		-	ACTION ACTION ACTION ACTION ACTION ACTION ACTION ACTION
16. Additional rem	narks:						
17. Cooler Inform	nation						
Cooler No	Temp °C Condition	Seal Intact Seal No	Seal Da	ate	Signed E	Rv.	
1	1.1 Good	Not Present	Jour De		Oigned L	· y	The state of the s

Chain-of-Custody Record Turn-Around Time: Client: HALL ENVIRONMENTAL ☑ Standard ☐ Rush ANALYSIS LABORATORY Project Name: www.hallenvironmental.com Mailing Address: RB SullIVAN # 3F 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 505-486-9543 Phone #: **Analysis Request** email or Fax#: kkandman chi/com. com Project Manager: SO4 TPH:8015D(GRO / DRO / MRO) QA/QC Package: Khoekstva Chilcovo: com BTEX / MTBE / TMB's (8021) Total Coliform (Present/Absent) 8270SIMS KATE KANFMAN CI, F, Br, NO₃, NO₂, PO₄, ☐ Standard ☐ Level 4 (Full Validation) Accreditation:

Az Compliance Sampler: EDB (Method 504.1) □ NELAC ☐ Other On Ice: ☐ Yes □ No PAHs by 8310 or 8270 (Semi-VOA) ☐ EDD (Type) # of Coolers: (RCRA 8 Metals Cooler Temp(including CF): 1.2-0.1= 1.1 8260 (VOA) Container Preservative HEAL No. Date Time Sample Name Matrix Type and # Type 7111771 55 1:00 BGT 001 Date: Relinquished by: Received by: Via: Date Time Remarks: Date: Relinquished by: Received by: Via: cme come

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.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

December 07, 2021

Kate Kaufman HILCORP ENERGY PO Box 4700 Farmington, NM 87499

TEL: (505) 564-0733

FAX:

RE: RB Sullivan 3F OrderNo.: 2111C11

Dear Kate Kaufman:

Hall Environmental Analysis Laboratory received 9 sample(s) on 11/24/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

CLIENT: HILCORP ENERGY

Analytical Report

Lab Order **2111C11**Date Reported: **12/7/2021**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Base 1

 Project:
 RB Sullivan 3F
 Collection Date: 11/23/2021 9:25:00 AM

 Lab ID:
 2111C11-001
 Matrix: SOIL
 Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: SB				
Diesel Range Organics (DRO)	12	9.4	mg/Kg	1	12/1/2021 12:59:55 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/1/2021 12:59:55 PM
Surr: DNOP	93.9	70-130	%Rec	1	12/1/2021 12:59:55 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	11/30/2021 8:08:50 PM
Surr: BFB	100	70-130	%Rec	1	11/30/2021 8:08:50 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	11/30/2021 8:08:50 PM
Toluene	ND	0.046	mg/Kg	1	11/30/2021 8:08:50 PM
Ethylbenzene	ND	0.046	mg/Kg	1	11/30/2021 8:08:50 PM
Xylenes, Total	ND	0.093	mg/Kg	1	11/30/2021 8:08:50 PM
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	11/30/2021 8:08:50 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	180	60	mg/Kg	20	12/2/2021 12:24:27 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 14

Date Reported: 12/7/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: Base 2

 Project:
 RB Sullivan 3F
 Collection Date: 11/23/2021 9:30:00 AM

 Lab ID:
 2111C11-002
 Matrix: SOIL
 Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	Analyst: SB				
Diesel Range Organics (DRO)	110	9.3	mg/Kg	1	12/1/2021 1:10:37 PM
Motor Oil Range Organics (MRO)	270	47	mg/Kg	1	12/1/2021 1:10:37 PM
Surr: DNOP	126	70-130	%Rec	1	12/1/2021 1:10:37 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/30/2021 10:29:54 PM
Surr: BFB	95.5	70-130	%Rec	1	11/30/2021 10:29:54 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	11/30/2021 10:29:54 PM
Toluene	ND	0.048	mg/Kg	1	11/30/2021 10:29:54 PM
Ethylbenzene	ND	0.048	mg/Kg	1	11/30/2021 10:29:54 PM
Xylenes, Total	ND	0.096	mg/Kg	1	11/30/2021 10:29:54 PM
Surr: 4-Bromofluorobenzene	95.1	70-130	%Rec	1	11/30/2021 10:29:54 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	160	60	mg/Kg	20	12/2/2021 12:36:47 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 14

Date Reported: 12/7/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: Base 3

Project: RB Sullivan 3F Collection Date: 11/23/2021 9:38:00 AM 2111C11-003 Lab ID: Matrix: SOIL Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	Analyst: SB				
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/1/2021 1:21:19 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/1/2021 1:21:19 PM
Surr: DNOP	91.8	70-130	%Rec	1	12/1/2021 1:21:19 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/30/2021 10:53:14 PM
Surr: BFB	103	70-130	%Rec	1	11/30/2021 10:53:14 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	11/30/2021 10:53:14 PM
Toluene	ND	0.048	mg/Kg	1	11/30/2021 10:53:14 PM
Ethylbenzene	ND	0.048	mg/Kg	1	11/30/2021 10:53:14 PM
Xylenes, Total	ND	0.096	mg/Kg	1	11/30/2021 10:53:14 PM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	11/30/2021 10:53:14 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	60	mg/Kg	20	12/2/2021 12:49:07 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 3 of 14

Date Reported: 12/7/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: Wall 5

 Project:
 RB Sullivan 3F
 Collection Date: 11/23/2021 9:43:00 AM

 Lab ID:
 2111C11-004
 Matrix: SOIL
 Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG		Analyst: SB			
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/1/2021 1:32:04 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/1/2021 1:32:04 PM
Surr: DNOP	126	70-130	%Rec	1	12/1/2021 1:32:04 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/30/2021 11:16:42 PM
Surr: BFB	97.1	70-130	%Rec	1	11/30/2021 11:16:42 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	11/30/2021 11:16:42 PM
Toluene	ND	0.047	mg/Kg	1	11/30/2021 11:16:42 PM
Ethylbenzene	ND	0.047	mg/Kg	1	11/30/2021 11:16:42 PM
Xylenes, Total	ND	0.093	mg/Kg	1	11/30/2021 11:16:42 PM
Surr: 4-Bromofluorobenzene	98.6	70-130	%Rec	1	11/30/2021 11:16:42 PM
EPA METHOD 300.0: ANIONS					Analyst: LRN
Chloride	ND	60	mg/Kg	20	12/2/2021 1:10:51 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 14

Date Reported: 12/7/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: Wall 6

 Project:
 RB Sullivan 3F
 Collection Date: 11/23/2021 9:48:00 AM

 Lab ID:
 2111C11-005
 Matrix: SOIL
 Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O		Analyst: SB			
Diesel Range Organics (DRO)	120	9.3	mg/Kg	1	12/1/2021 1:42:59 PM
Motor Oil Range Organics (MRO)	230	46	mg/Kg	1	12/1/2021 1:42:59 PM
Surr: DNOP	99.9	70-130	%Rec	1	12/1/2021 1:42:59 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/30/2021 11:40:07 PM
Surr: BFB	98.3	70-130	%Rec	1	11/30/2021 11:40:07 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	11/30/2021 11:40:07 PM
Toluene	ND	0.048	mg/Kg	1	11/30/2021 11:40:07 PM
Ethylbenzene	ND	0.048	mg/Kg	1	11/30/2021 11:40:07 PM
Xylenes, Total	ND	0.095	mg/Kg	1	11/30/2021 11:40:07 PM
Surr: 4-Bromofluorobenzene	95.9	70-130	%Rec	1	11/30/2021 11:40:07 PM
EPA METHOD 300.0: ANIONS					Analyst: LRN
Chloride	230	60	mg/Kg	20	12/2/2021 11:19:41 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 14

Date Reported: 12/7/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: Wall 1

 Project:
 RB Sullivan 3F
 Collection Date: 11/23/2021 9:53:00 AM

 Lab ID:
 2111C11-006
 Matrix: SOIL
 Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	Analyst: SB				
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/1/2021 9:21:24 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/1/2021 9:21:24 PM
Surr: DNOP	82.1	70-130	%Rec	1	12/1/2021 9:21:24 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	12/1/2021 12:03:38 AM
Surr: BFB	102	70-130	%Rec	1	12/1/2021 12:03:38 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	12/1/2021 12:03:38 AM
Toluene	ND	0.046	mg/Kg	1	12/1/2021 12:03:38 AM
Ethylbenzene	ND	0.046	mg/Kg	1	12/1/2021 12:03:38 AM
Xylenes, Total	ND	0.092	mg/Kg	1	12/1/2021 12:03:38 AM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	12/1/2021 12:03:38 AM
EPA METHOD 300.0: ANIONS					Analyst: LRN
Chloride	ND	59	mg/Kg	20	12/2/2021 11:32:03 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 14

Date Reported: 12/7/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: Wall 2

 Project:
 RB Sullivan 3F
 Collection Date: 11/23/2021 9:56:00 AM

 Lab ID:
 2111C11-007
 Matrix: SOIL
 Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	12/1/2021 9:31:52 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/1/2021 9:31:52 PM
Surr: DNOP	106	70-130	%Rec	1	12/1/2021 9:31:52 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/1/2021 12:26:54 AM
Surr: BFB	102	70-130	%Rec	1	12/1/2021 12:26:54 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	12/1/2021 12:26:54 AM
Toluene	ND	0.047	mg/Kg	1	12/1/2021 12:26:54 AM
Ethylbenzene	ND	0.047	mg/Kg	1	12/1/2021 12:26:54 AM
Xylenes, Total	ND	0.094	mg/Kg	1	12/1/2021 12:26:54 AM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	12/1/2021 12:26:54 AM
EPA METHOD 300.0: ANIONS					Analyst: LRN
Chloride	340	60	mg/Kg	20	12/2/2021 11:44:24 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 14

Date Reported: 12/7/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: Wall 3

 Project:
 RB Sullivan 3F
 Collection Date: 11/23/2021 10:00:00 AM

 Lab ID:
 2111C11-008
 Matrix: SOIL
 Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/1/2021 9:42:20 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/1/2021 9:42:20 PM
Surr: DNOP	132	70-130	S	%Rec	1	12/1/2021 9:42:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/1/2021 12:50:18 AM
Surr: BFB	99.7	70-130		%Rec	1	12/1/2021 12:50:18 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/1/2021 12:50:18 AM
Toluene	ND	0.049		mg/Kg	1	12/1/2021 12:50:18 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/1/2021 12:50:18 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/1/2021 12:50:18 AM
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	12/1/2021 12:50:18 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	100	60		mg/Kg	20	12/2/2021 11:56:45 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 14

Date Reported: 12/7/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: Wall 4

 Project:
 RB Sullivan 3F
 Collection Date: 11/23/2021 10:06:00 AM

 Lab ID:
 2111C11-009
 Matrix: SOIL
 Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	Analyst: SB				
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	12/1/2021 9:52:48 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/1/2021 9:52:48 PM
Surr: DNOP	103	70-130	%Rec	1	12/1/2021 9:52:48 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/1/2021 1:13:46 AM
Surr: BFB	102	70-130	%Rec	1	12/1/2021 1:13:46 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	12/1/2021 1:13:46 AM
Toluene	ND	0.047	mg/Kg	1	12/1/2021 1:13:46 AM
Ethylbenzene	ND	0.047	mg/Kg	1	12/1/2021 1:13:46 AM
Xylenes, Total	ND	0.094	mg/Kg	1	12/1/2021 1:13:46 AM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	12/1/2021 1:13:46 AM
EPA METHOD 300.0: ANIONS					Analyst: LRN
Chloride	ND	61	mg/Kg	20	12/2/2021 12:09:06 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 14

Hall Environmental Analysis Laboratory, Inc.

2111C11

WO#:

07-Dec-21

Client: HILCORP ENERGY **Project:** RB Sullivan 3F

Sample ID: MB-64250 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 64250 RunNo: 83213

Prep Date: 12/1/2021 Analysis Date: 12/1/2021 SeqNo: 2957146 Units: mq/Kq

PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result HighLimit Qual

Chloride ND 1.5

Sample ID: LCS-64250 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 64250 RunNo: 83213

Units: mg/Kg Prep Date: 12/1/2021 Analysis Date: 12/1/2021 SeqNo: 2957147

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

Chloride 14 1.5 15.00 92.7 110

Sample ID: MB-64264 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 64264 RunNo: 83262

Prep Date: 12/2/2021 Analysis Date: 12/2/2021 SeqNo: 2958497 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID: LCS-64264 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 64264 RunNo: 83262

Prep Date: 12/2/2021 Analysis Date: 12/2/2021 SeqNo: 2958498 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

14 Chloride 1.5 15.00 n 90.9 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 10 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#: **2111C11**

07-Dec-21

Client: HILCORP ENERGY
Project: RB Sullivan 3F

Sample ID: 2111C11-006AMS	SampT	ype: MS	3	Tes	TestCode: EPA Method 8015M/D: Diesel Range Or						
Client ID: Wall 1	Batch	ID: 642	225	F	RunNo: 8	3211					
Prep Date: 11/30/2021	Analysis D	nalysis Date: 12/2/2021 SeqNo: 2956863						(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	47	10	50.40	5.478	82.8	39.3	155				
Surr: DNOP	5.1		5.040		100	70	130				
Sample ID: 2111C11-006AMSI	SD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics										

Campio ib: Ellion coordin	ob camp.	Camprypo. MOD				Ailiculou	00 10 M/D. DIC	Joer Italige	o organios	
Client ID: Wall 1	Batch	Batch ID: 64225			RunNo: 8	3211				
Prep Date: 11/30/2021	Analysis D	sis Date: 12/2/2021 SeqNo: 2956864			956864	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.6	48.22	5.478	75.8	39.3	155	11.6	23.4	
Surr: DNOP	4.5		4.822		92.8	70	130	0	0	

Sample ID: LCS-64215	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 64215	RunNo: 83211	
Prep Date: 11/30/2021	Analysis Date: 12/2/2021	SeqNo: 2956906	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	3.9 5.000	78.4 70	130

Sample ID: LCS-64223	SampT	ype: LC	s	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch	ID: 64 2	223	F	RunNo: 8	3211							
Prep Date: 11/30/2021	Analysis D	Analysis Date: 12/1/2021			SeqNo: 29	956907	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	43	10	50.00	0	85.1	68.9	135						
Surr: DNOP	4.2		5.000		83.7	70	130						

Sample ID: LCS-64225	SampType: LCS				tCode: E	PA Method	esel Rang	e Organics		
Client ID: LCSS	Batch	n ID: 64	225	F	RunNo: 8	3211				
Prep Date: 11/30/2021	ep Date: 11/30/2021 Analysis Date: 12/1/2021			9	SeqNo: 2	956908	Units: mg/k			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.0	68.9	135			
Surr: DNOP	4.5		5.000		89.3	70	130			

Sample ID: LCS-64239	SampT	ype: L0	cs	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batcl	n ID: 64	239	F	RunNo: 8	3211				
Prep Date: 12/1/2021	Analysis D	Analysis Date: 12/1/2021			SeqNo: 2	956909	Units: %Red	:		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.8		5.000		76.0	70	130			

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 11 of 14

Hall Environmental Analysis Laboratory, Inc.

12

10.00

WO#: 2111C11 07-Dec-21

Client: HILCORP ENERGY **Project:** RB Sullivan 3F

Sample ID: MB-64223	SampT	ype: ME	3LK	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch	ID: 64	223	R	unNo: 8	3211				
Prep Date: 11/30/2021	Analysis D	ate: 12	2/1/2021	S	eqNo: 2	956910	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		134	70	130			S
Sample ID: MB-64225	SampT	ype: ME	BLK	Tes	Code: EI	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch ID: 64225			R	unNo: 8	3211				
Prep Date: 11/30/2021	Analysis Date: 12/1/2021			S	eqNo: 2	956911	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	70	130			
Sample ID: MB-64239	SampT	ype: ME	BLK	Tes	Code: El	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch	ID: 64	239	R	unNo: 8	3211				
Prep Date: 12/1/2021	Analysis D	ate: 12	2/1/2021	S	eqNo: 2	956912	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		113	70	130			
Sample ID: MB-64215	SampT	ype: ME	3LK	Tes	Code: EI	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch ID: 64215			R	unNo: 8	3242				
Prep Date: 11/30/2021	Analysis Date: 12/2/2021			S	eqNo: 2	957749	Units: %Red	;		
Analyte				SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

Surr: DNOP

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank

124

70

130

- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 12 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#:

2111C11 07-Dec-21

Client: HILCORP ENERGY **Project:** RB Sullivan 3F

Sample ID: mb-64196 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 64196 RunNo: 83185

Prep Date: 11/29/2021 Analysis Date: 11/30/2021 SeqNo: 2955215 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 970 1000 97.3 70 130

Sample ID: Ics-64196 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 64196 RunNo: 83185

Prep Date: 11/29/2021 Analysis Date: 11/30/2021 SeqNo: 2955216 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 23 5.0 25.00 0 90.6 78.6 131 Surr: BFB 1100 1000 70 113 130

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 13 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#: **2111C11** *07-Dec-21*

Client: HILCORP ENERGY
Project: RB Sullivan 3F

Sample ID: mb-64196 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 64196 RunNo: 83185

Prep Date: 11/29/2021 Analysis Date: 11/30/2021 SeqNo: 2955257 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Benzene
 ND
 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 0.97 1.000 97.2 70 130

Sample ID: LCS-64196 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 64196 RunNo: 83185

Prep Date: 11/29/2021	Analysis [Analysis Date: 11/30/2021			SeqNo: 29	955258	mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	0.95	0.025	1.000	0	95.3	80	120							
Toluene	0.93	0.050	1.000	0	93.4	80	120							
Ethylbenzene	0.93	0.050	1.000	0	93.1	80	120							
Xylenes, Total	2.8	0.10	3.000	0	92.7	80	120							
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130							

Sample ID: 2111c11-001ams SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: Base 1 Batch ID: 64196 RunNo: 83185

Prep Date: 11/29/2021	Analysis [Analysis Date: 11/30/2021			SeqNo: 2	955268	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9452	0	96.3	80	120			
Toluene	0.90	0.047	0.9452	0	95.5	80	120			
Ethylbenzene	0.91	0.047	0.9452	0	96.5	80	120			
Xylenes, Total	2.7	0.095	2.836	0	95.9	80	120			
Surr: 4-Bromofluorobenzene	0.93		0.9452		98.8	70	130			

Sample ID: 2111c11-001amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: Base 1 Batch ID: 64196 RunNo: 83185

Prep Date: 11/29/2021	Analysis [Date: 11	/30/2021	S	SeqNo: 2	955269	Units: mg/K	ng/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.96	0.024	0.9662	0	99.1	80	120	5.12	20				
Toluene	0.95	0.048	0.9662	0	0 98.8 80		120	5.61	20				
Ethylbenzene	0.96	0.048	0.9662	0	99.0	80	120	4.82	20				
Xylenes, Total	2.9	0.097	2.899	0	98.9	80	120	5.25	20				
Surr: 4-Bromofluorobenzene	0.97		0.9662		101	70	130	0	0				

Qualifiers:

* Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

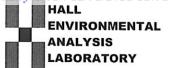
E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 14 of 14



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

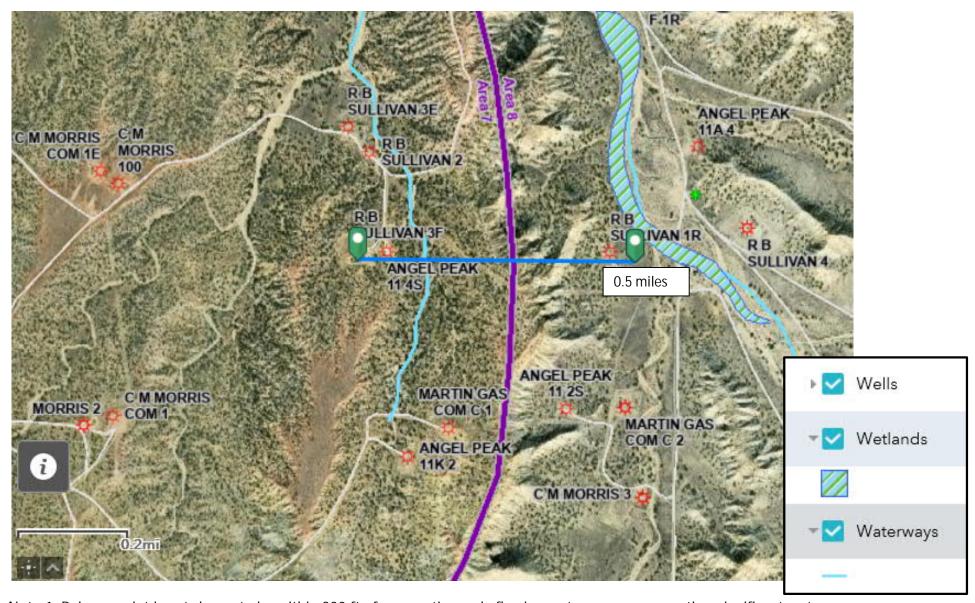
TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: HILCORP ENERG	Y Work Order Nur	mber: 2111C11		RcptNo: 1	
Received By: Cheyenne Cason	11/24/2021 7:43:0	00 AM	Chul		
Completed By: Isaiah Ortiz	11/24/2021 8:47:4	19 AM	I_0-	4	
Reviewed By:	11/21		,		
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
<u>Log In</u>					
3. Was an attempt made to cool the	samples?	Yes 🗸	No 🗌	NA 🗆	
4. Were all samples received at a ter	mperature of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5. Sample(s) in proper container(s)?		Yes 🗸	No 🗌		
6. Sufficient sample volume for indica	ated test(s)?	Yes 🗸	No 🗌		
7. Are samples (except VOA and ON	G) properly preserved?	Yes 🗸	No 🗌		
8. Was preservative added to bottles	?	Yes	No 🗹	NA 🗆	
9. Received at least 1 vial with heads	pace <1/4" for AQ VOA?	Yes	No 🗌	NA 🗹	
10. Were any sample containers recei	ved broken?	Yes	No 🗹 🎏	of preserved	
11. Does paperwork match bottle labe (Note discrepancies on chain of cu		Yes 🗸	_ b	ottles checked or pH:	unless noted)
12. Are matrices correctly identified on		Yes 🗸	No 🗆	Adjusted?	
13. Is it clear what analyses were requ	ested?	Yes 🗸	No 🗌		1-11-
 Were all holding times able to be n (If no, notify customer for authorization) 		Yes 🗸	No 🗆	Checked by:	11/24/21
Special Handling (if applicabl					
15. Was client notified of all discrepar		Yes 🗌	No 🗌	NA 🗸	
Person Notified:	Date	e: [
By Whom:	Via:	eMail F	hone Fax] In Person	
Regarding: Client Instructions:					
16. Additional remarks:					
17. Cooler Information					
Cooler Information Cooler No Temp °C Cond	lition Seal Intact Seal No	Seal Date	Signed By		
1 0.4 Good	Not Present		3.00		

20 C	hain	-of-Cu	Time:				1						-	_							
Client:	Hilc	orp		√ Standard	Standard Rush_raject Name:														ATI/ IOT		(
d				-	e:																
Mailing	Address	382	CR3100	RB Si	ullivan	3F		49	01 H							tal.co	om И 871	109			
	A	21001	vm 87410	Project #:			1				15-39				657.0		o. 4107				
Phone	#: 5	SOS. 5	99.3400						51. 50)3-3-	10-08	Alter Drugger	23 10 10 10	THE OWNER WHEN	A THE OWNER OF THE OWNER O	uest	-				
email o	r Fax#:	KKai	ifman Chilco	Project Mana	ager:		=	6					SO ₄			£					
	Package:			Kate	Kaufr	nan	TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's		8270SIMS		PO ₄ , S			Total Coliform (Present/Absent)	0				
□ Star			☐ Level 4 (Full Valid	lation)			B's	RO	2 P(70S		2, P			ent/	38.				
Accreditation: ☐ Az Compliance ☐ Sampler: C Carc ☐ NELAC ☐ Other ☐ On Ice: ▼ Yes						□ No	₽	0/0	808,	1.7		-	NO ₂ ,		2	res	: 4,				
	(Type)	□ Other		# of Coolers: (GRC	des/	d 50	10 or	als	ő		8	m (F	00				
					Cooler Temp(including CF): O, 4 -0 = O, 4 (°C				stici	etho	83	Me	Br, NO ₃ ,	8	ij.	lifor	hloride				
			,	Containes						Š	s by	ξ¥ 8	<u>.</u>	Š	S)	ပ္ပို	260				
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX	ТРН	808	EDB (Method 504.1)	PAHs by 8310	RCRA 8 Metals	Cl, Fl,	8260 (VOA)	8270 (Semi-VOA)	Tota	3				
11/23/2	925	Soil	Base 1	Glass ta/		001	X	X									X				
11/23/21	930	Soil	Base 2	Slasstali.		007	X	X									X			П	
11/23/21	938	Soil	Base 3	Glasston/		003	X	X									X				
11/23/9	943	Soil	Wall 5	Glass 40/1		004	X	X									X				
1/23/21	948	901	Wall 6	GKSS40=/1		005	X	X									X				
11/23/21	953	Soil	Wall	Chass toz/	4	006	X	X									X				
23/21	956	Soil	Wall 2	Glasstor/		607	X	X								,	X			П	
123/21	1000	Soil	Wall 3	61855404/1		008	Ź	X									X			П	-46 PM
23/21	1006	Soil	Wall 4	Glass407/		009	X	X		14						9	X				.22:
																					22.2
/207					7															П	4/20
2/31		1																	\top		Z: 1/
Pate:	Time: Relinquished by: Date Time 1450 Received by: Via: Date Time					Date Time	Ren	narks	3:												Released to Imaging: 1/4/202
Bate:	Time:	Relinquishe	ed by:	Received by:	Via:	Date Time															to In
23/21/746 / Who Ome co					מיוש נ	11241210743															eased
Rec	f necessary,	, samples sub	mitted to Hall Environmental m	ay be subcontracted to other a			possi	bility.	Any su	b-cont	racted	data w	ill be	clearly	, notat	ted on t	he ana	lytical re	eport.		Reh

Determination of water sources and significant watercourses within ½ mile of the lateral extent of the release

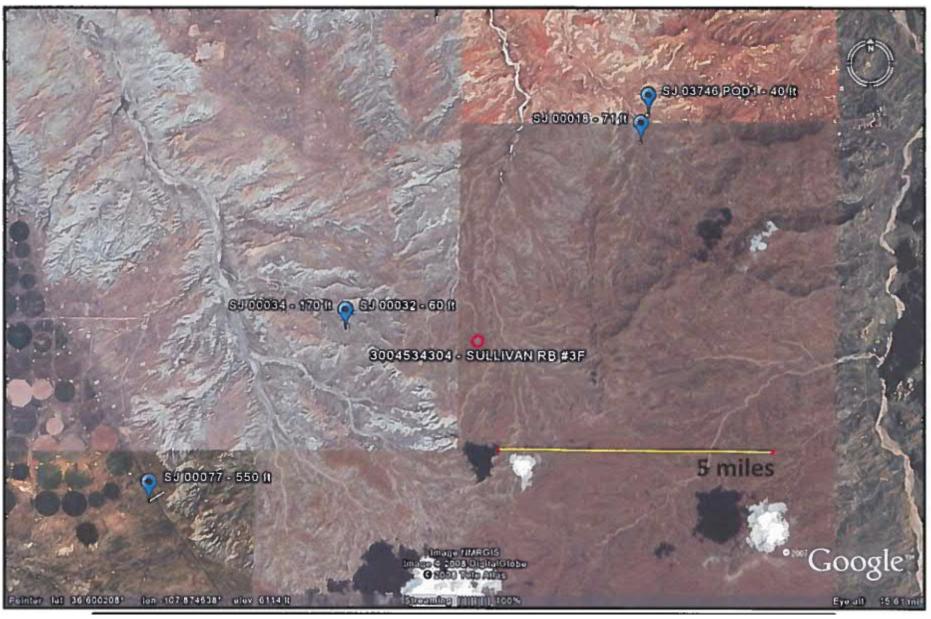


Note 1: Release point is not shown to be within 300 ft of any continuously flowing watercourse or any other significant water course.

Note 2: The lateral extents of the release point are not shown to be within 300 feet of a mapped wetland.

Released to Imaging: 1/4/2022 2:22:46 PM

Distance to mapped water wells. iWaters Groundwater Database Map

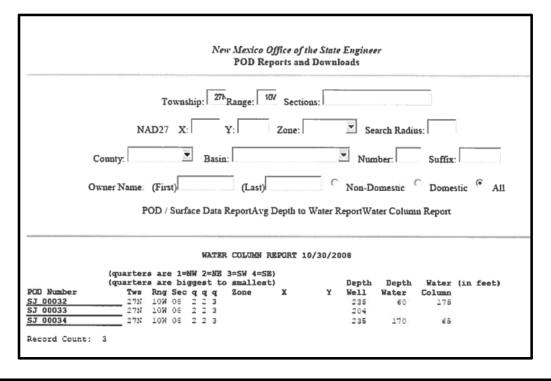


Note: Estimated depth to groundwater is greater than 100 feet. This is based on data published on the New Mexico Engineers iWaters Database website.

Note: The lateral extents of the release point are not shown to be within 500 ft of a spring or domestic freshwater well used by less than 5 households (or stock watering) or within 1,000 ft of any freshwater water well or spring.

Released to Imaging: 1/4/2022 2:22:46 PM

Depth to groundwater determination.



Note: Estimated depth to groundwater is greater than 100 feet. This is based on data published on the New Mexico Engineers iWaters Database website.

New Mexico Office of the State Engineer POD Reports and Downloads												
		Town	ship:	^{28h} Rai	age: 09/	Secti	ons:					
			WA:	TER CO	olumn re	PORT :	10/30/2	800				
POD Number SJ 03746 POD1 SJ 00018	(quarter (quarter Tws 28N 28N		ggest qqq 123	to sn		x	Υ	Depth Well 190 135	Depth Water 40 71	Water Column 150 64	(in feet)	

27N 11W 26 2 1 3

Depth to groundwater determination.

New Mexico Office of the State Engineer POD Reports and Downloads Township: Z7h Range: 11V Sections: POD / Surface Data ReportAvg Depth to Water ReportWater Column Report WATER COLUMN REPORT 10/30/2008 (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Depth Depth Water (in feet) Tws Rng Sec q q q Zone X 27% 11% 07 2 2 Y Well POD Number Water Column

1102

550

552

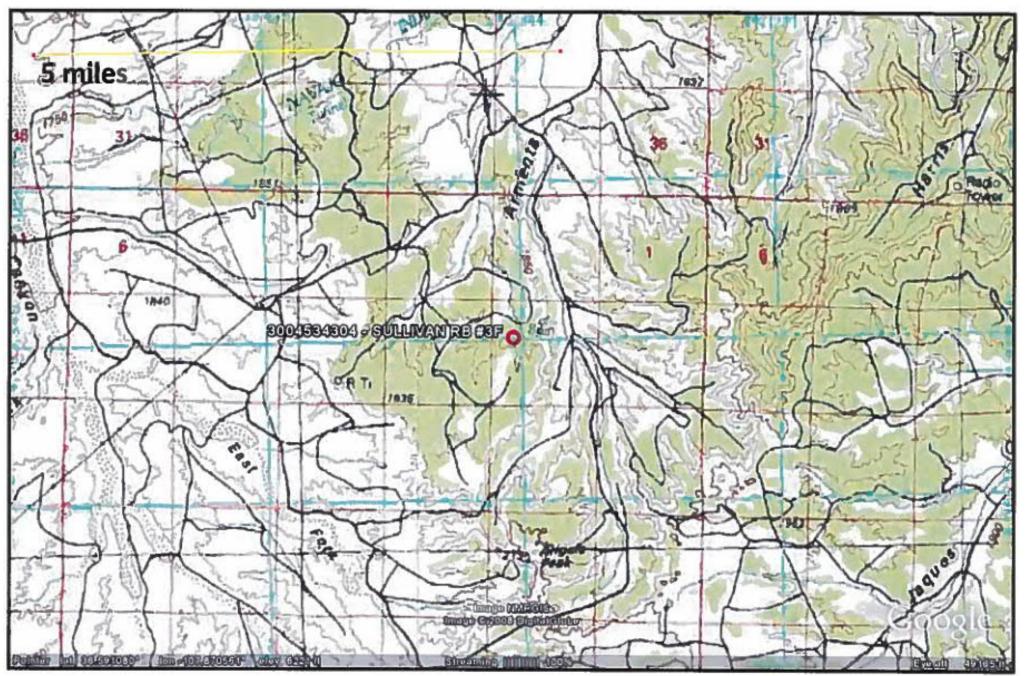
Record Count: 2

SJ 01787 SJ 00077

> Note: Estimated depth to groundwater is greater than 100 feet. This is based on data published on the New Mexico Engineers iWaters Database website.

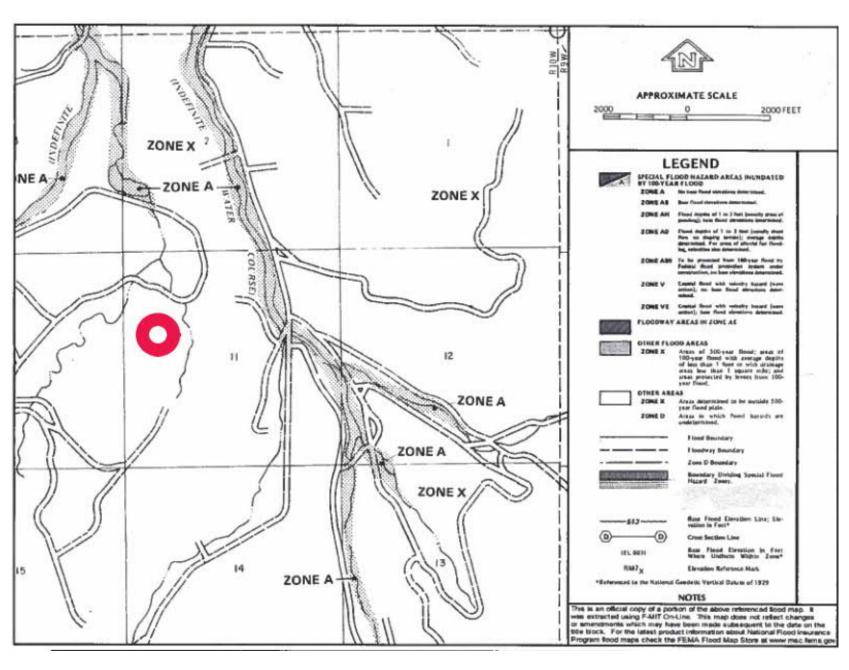
					P	OD Ke	ports and	Down	loads			
		Town	nchi	29	Rai	10 10	Section	15.				
		1011			1401	age.	Section					
				WATE	R CC	DLUMN R	EPORT 10	/27/2	800			
	(quarter								Depth	Depth	Water	(in fee
OD Number	Tws	Rng Se				one	' X	Y	Well	Water	Column	tan roc
G 36732 DCL	29H	10W 25	2					-	500	450	50	
J 00785 S	29N	10W 04	2	4 2					20			
T 00680	29N	10W 13	2	2					40	10	30	
J 00785 NEW	29H	10W 13	4						60	20	40	
7 00785 S-2	29H	10W 13							60	20	40	
7 03023	29H	10W 18		3 1					90	€5	25	
03502	29H	10W 18							150			
03081	29H	10W 18							20			
02078	291	10W 19							40	9	31	
00303	29N	10W 19							20	5	15	
02860	29N	10W 19							21	2	15	
02900	29H	10W 20							70			
01140	29N	10W 20		2 2					25	€	19	
01990	29N	10W 20		1					40	12	28	
02548	29N	10W 20		4					12	2	10	
02547	2911	10W 20	100	4					12	2	10	
03535	29N	10W 21		2 3					15			
03455	29N	10W 21							20	17	3	
03456	29N	10W 21							20	17	3	
03441	29N	10W 21							40	30	10	
03470	29N	10W 21 10W 21							20 25	7	13	
01474	29N 29N			5.00							35	
03180 03713 POD1	29N	10W 21 10W 22		4 4					30 265	15 20	245	
02820	29N	10W 23		1 1					82	16	66	
02896	29N	10W 24							110	34	7€	
02075	29N	10W 24		4 2					40	20	20	
										17.41	5.5	
J 00092 J 02802	29			2 4						33 132	30	102
J 02907	29			3 2						60	30	102
J 02122	29			4 1						60	12	48
J 01019	29			4						50	4	46
J 01056	25			3						50	31	19
7 02216	29			1 1							7	
										30		23
J 03582	29			1 :		**				10	4	. 6
J 02151	25			2 :		W	484€00	207	5600	37	20	17
J 03652	29			2 :						34	ć	28
J 03142	25			2 2						38	22	16
J 03637	29				1					21	10	11
J 03582 POD2	29			1000	3					28	5	23
J 02840	29			3 4						55	32	23
J 00506	29			4 :						78	55	23
J 00662	29			4 4						93	70	23
J 00497	29	N 10W	29	3 :	3					85	35	50
J 03777 POD1	29			4 .			270344	207	1311	100	50	50
J 00473	29			2 4						58	10	48
J 03743 POD1	29			4 .						490	140	350
J 01051	29			2 :						90	30	60
J 01050	- 2		7.7	ī						85	38	47

Topographic Map



FEMA Flood Zone Map





District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 69797

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	69797
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	1. Closure Report Approved, Release Resolved	1/4/2022