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	nAPP2105050187
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Harvest Midstream Company	OGRID 373888
Contact Name Kijun Hong	Contact Telephone 505-632-4475
Contact email khong@harvestmidstream.com	Incident # *(assigned by OCD)* nAPP2105050187
Contact mailing address 1755 Arroyo Dr., Bloomfield, NM 87413	

Location of Release Source

Latitude 36.954092 Longitude -108.085317
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Horton Compressor Station	Site Type Compressor Station
Date Release Discovered 2/19/2021- 10:50 am	API# *(if applicable)* Facility # fCS00000000189

Unit Letter	Section	Township	Range	County
K	27	32N	12W	San Juan

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private *(Name)*: Lesher, James D and Karen C

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) approx. 30	Volume Recovered (bbls) 30
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☒ No
☒ Condensate	Volume Released (bbls) approx. 55	Volume Recovered (bbls) 55
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A tank valve failed due to freezing. Internal corrosion also played a role. The leak has been repaired.

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2105050187
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

☒ Description of remediation activities

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

Printed Name: Jennifer Deal Title: Environmental Specialist

Signature: Jennifer Deal Date: 4/19/2021

Email: jdeal@harvestmidstream.com Telephone: 505-324-5128

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Nelson Velez Date: 06/15/2022

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

April 9, 2021

Cory Smith
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos
Aztec, New Mexico 87410
Email: Cory.Smith@state.nm.us

RE: CLOSURE REPORT
Horton Compressor Station Release
Facility ID No. fCS00000000189
NMOCD Incident No. NAPP2105050187
NE¼ SW¼, Section 27, T32N, R12W
San Juan County, New Mexico

Dear Mr. Smith:

Harvest Midstream Company (Harvest) completed an excavation clearance at the Horton Compressor Station release location in March 2021. The release consisted of approximately 30 barrels (bbls) of produced water and 55 bbls of condensate and was discovered on February 19, 2021. It is classified as a major release because it was an unauthorized release of liquids exceeding 25 bbls. The leak was stopped and valve repaired, and Harvest collected soil samples to confirm all impacted soils were removed.

1.0 Site Information

1.1 Location

Site Name – Horton Compressor Station
Legal Description – NE¼ SW¼, Section 27, T32N, R12W, San Juan County, New Mexico
Release Latitude/Longitude – N36.95409, W108.08532
Land Jurisdiction – Private
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Location Map

1.2 Release Information

On February 19, 2021, personnel discovered released produced water and condensate at the compressor station. An estimated 30

624 E Comanche St.
Farmington, NM 87401
505-564-2281
animasenvironmental.com

bbls of produced water and 55 bbls of condensate were removed. The cause was a failed tank valve which was then fixed. Due to the quantity of liquids released, the release was classified as "major." NMOCD was notified and project correspondence is attached.

2.0 Site Ranking

In accordance with NMAC 19.15.29.12 Table I (August 2018), release closure criteria are based on the minimum depth to groundwater within the horizontal extent of the release area:

- **Depth to Groundwater:** Cathodic reports could not be located for oil and gas wells within one-half mile. Depth to water records could not located for any wells within one-half mile. However, the site is within a wash that is a tributary of Armenta Canyon wash. Depth to groundwater is less than 50 ft bgs.
- **Sensitive Receptor Determination:** The release site is located within a small wash that is a tributary of Armenta Canyon wash. It is designated as a wetland by the National Wetlands Inventory.

NMOCD Action levels are:

- 10 mg/kg benzene and 50 mg/kg total benzene, toluene, ethylbenzene, and xylene (BTEX);
- 1,000 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO);
- 2,500 mg/kg TPH as GRO, DRO, and motor oil range organics (MRO); and
- 20,000 mg/kg chlorides.

3.0 Confirmation Soil Sampling

Soil confirmation samples were collected by Harvest on March 5, 2021, with the collection of 5-point composite samples including one from each side wall and one composite sample from the base. Sample locations are presented on Figure 3. The final excavation measured approximately 40 ft by 43 ft by 6 to 10 ft deep and included approximately 192 cubic yards of overburden and contaminated soil. A photograph log is attached.

3.1 Field Data

Clearance of soil samples was achieved through laboratory analysis. Field notes are attached.

3.2 Laboratory Analyses

The samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto sample chain of custody records. The samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. All samples were laboratory analyzed for:

- BTEX per U.S. Environmental Protection Agency (USEPA) Method 8021B;
- TPH as GRO, DRO, MRO per USEPA Method 8015M/D; and
- Chlorides per USEPA Method 300.0.

3.3 Laboratory Analytical Results

All laboratory analytical results indicated benzene, total BTEX, TPH (as GRO, DRO, and MRO), and chlorides in all samples were below applicable action levels. The excavation was subsequently backfilled. Laboratory results are on Figure 3. The laboratory analytical report is attached.

4.0 Conclusions

Harvest completed an excavation clearance of petroleum hydrocarbon impacted soils at the Horton Compressor Station in March 2021 resulting from a release reported on February 19, 2021. Laboratory analytical results reported benzene, total BTEX, TPH (as GRO/DRO/MRO), and chloride concentrations as *below* applicable NMOCD action levels in all samples. No further action is recommended at this time.

If you have any questions about this report or site conditions, please do not hesitate to contact Elizabeth McNally at (505) 564-2281.

Sincerely,

David J. Reese
Environmental Scientist

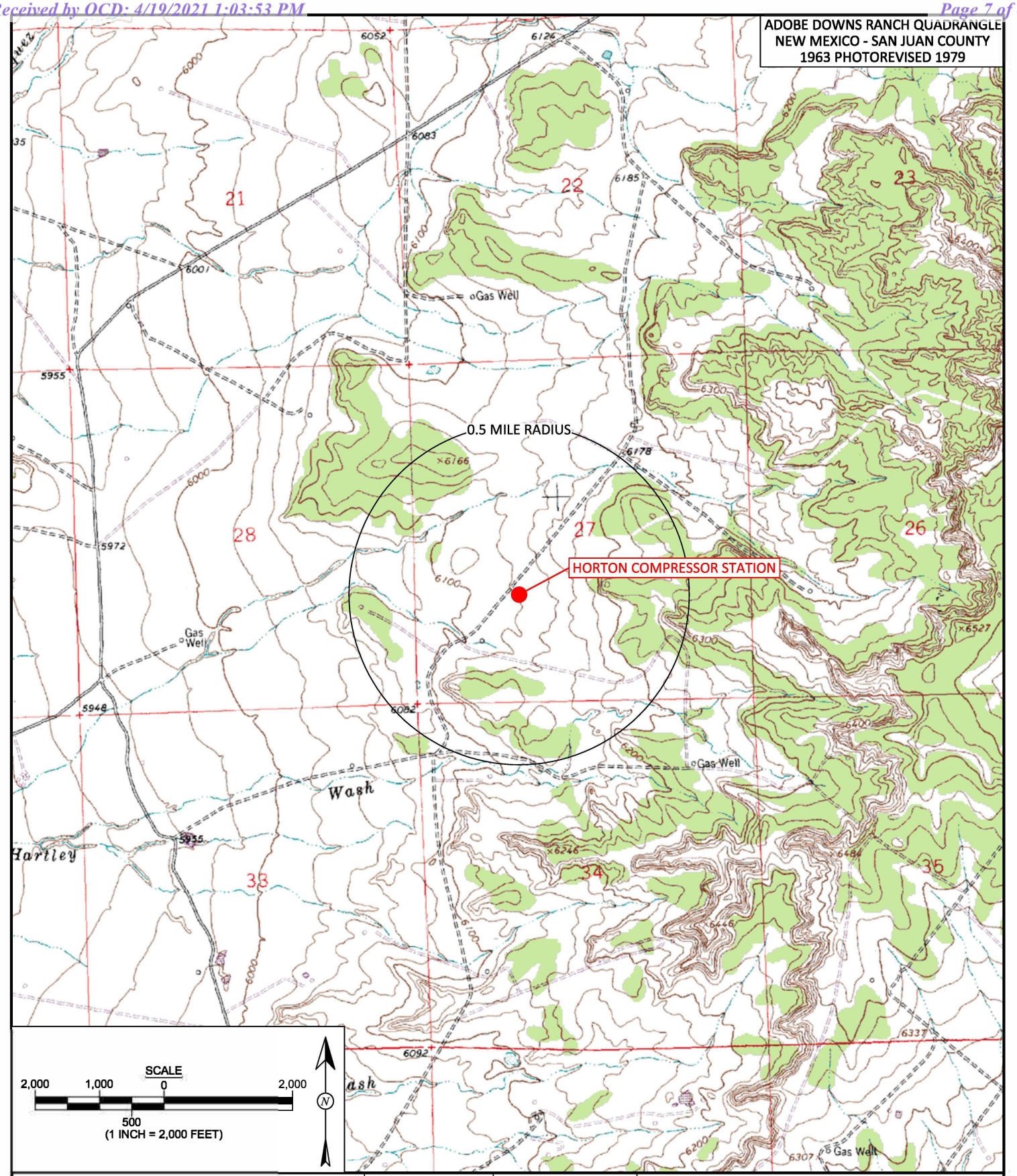
Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Location Map
Figure 3. Excavation Area and Soil Sample Locations
Photograph Log
Field Notes
Hall Analytical Report 2103374
Notifications and Correspondence
NMOCD Site Assessment/Characterization Ranking

Cc:
Kijun Hong
Harvest Midstream Company
1755 Arroyo Dr.
Bloomfield, New Mexico 87413
Email: khong@harvestmidstream.com

https://animasenvironmental.sharepoint.com/sites/HarvestMidstream/Shared Documents/Horton Compressor Station C-141/Reports/Horton Comp. Station Exc Clearance Report 040921.docx



DRAWN BY: C. Lameman	**DATE DRAWN:** April 12, 2021
REVISIONS BY: C. Lameman	**DATE REVISED:** April 12, 2021
CHECKED BY: E. McNally	**DATE CHECKED:** April 12, 2021
APPROVED BY: E. McNally	**DATE APPROVED:** April 12, 2021

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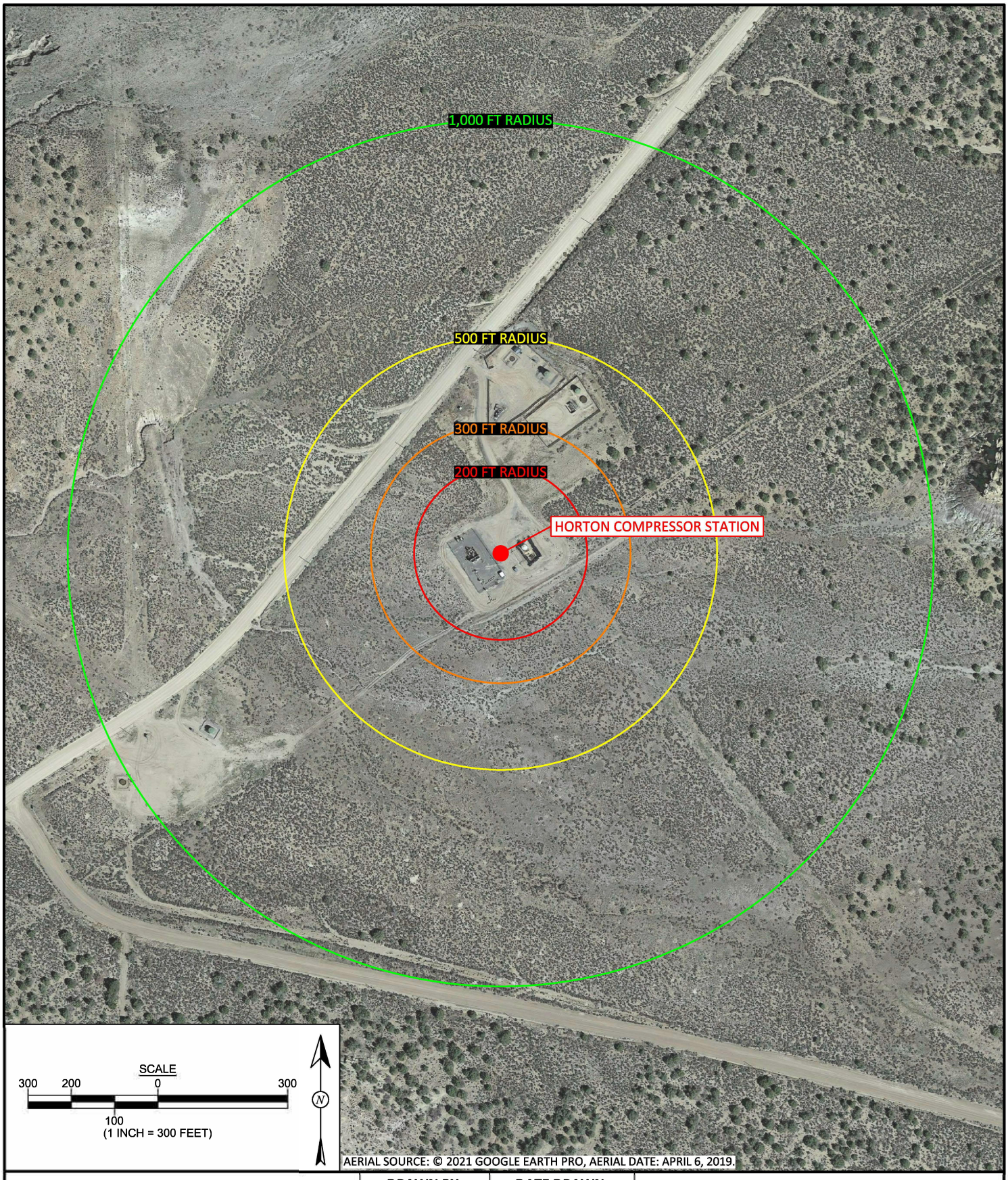
FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
HARVEST MIDSTREAM
HORTON COMPRESSOR STATION
API: fCS00000000189
INCIDENT ID: nAPP2105050187
NE¼ SW¼, SECTION 27, T32N, R12W
SAN JUAN COUNTY, NEW MEXICO
N36.954092, W108.085317



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REVISIONS BY: C. Lameman	**DATE REVISED:** April 12, 2021
CHECKED BY: E. McNally	**DATE CHECKED:** April 12, 2021
APPROVED BY: E. McNally	**DATE APPROVED:** April 12, 2021

FIGURE 2

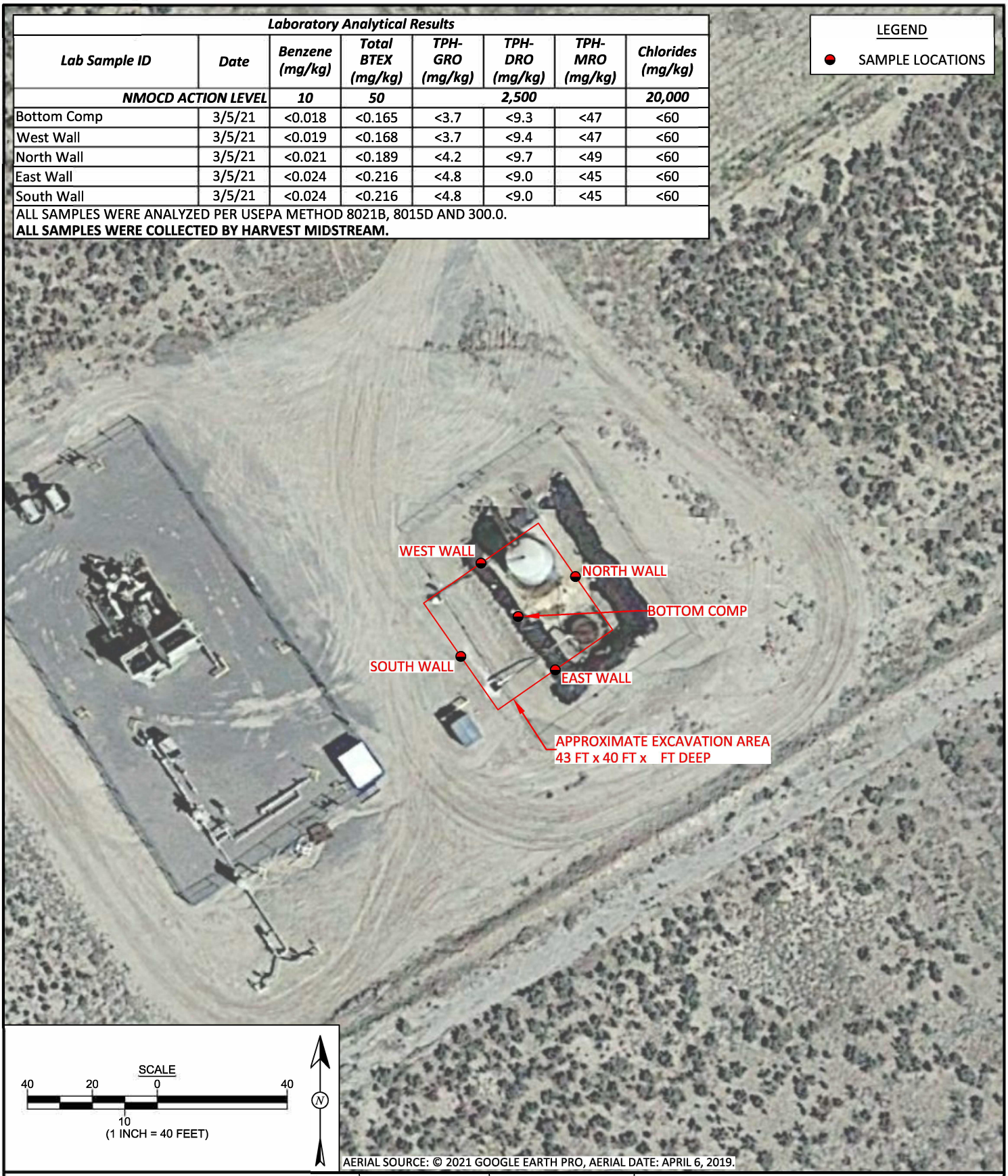
AERIAL SITE LOCATION MAP

HARVEST MIDSTREAM
HORTON COMPRESSOR STATION
API: fCS00000000189
INCIDENT ID: nAPP2105050187
NE¼ SW¼, SECTION 27, T32N, R12W
SAN JUAN COUNTY, NEW MEXICO
N36.954092, W108.085317

Laboratory Analytical Results

Lab Sample ID	Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-MRO (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL		10	50		2,500		20,000
Bottom Comp	3/5/21	<0.018	<0.165	<3.7	<9.3	<47	<60
West Wall	3/5/21	<0.019	<0.168	<3.7	<9.4	<47	<60
North Wall	3/5/21	<0.021	<0.189	<4.2	<9.7	<49	<60
East Wall	3/5/21	<0.024	<0.216	<4.8	<9.0	<45	<60
South Wall	3/5/21	<0.024	<0.216	<4.8	<9.0	<45	<60

ALL SAMPLES WERE ANALYZED PER USEPA METHOD 8021B, 8015D AND 300.0.
ALL SAMPLES WERE COLLECTED BY HARVEST MIDSTREAM.



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REVISIONS BY: C. Lameman	**DATE REVISED:** April 12, 2021
CHECKED BY: E. McNally	**DATE CHECKED:** April 12, 2021
APPROVED BY: E. McNally	**DATE APPROVED:** April 12, 2021

FIGURE 3

EXCAVATION AREA AND SAMPLE LOCATIONS MAP
HARVEST MIDSTREAM
HORTON COMPRESSOR STATION
API: fCS00000000189; INCIDENT ID: nAPP2105050187
NE¼ SW¼, SECTION 27, T32N, R12W
SAN JUAN COUNTY, NEW MEXICO
N36.954092, W108.085317

Horton Compressor Station
NMOCD Incident No. nAPP2105050187
Release Excavation Clearance

Photo 1: Excavation in progress. View is to the southwest.

Photo 2: Excavation in progress. View is to the southeast.

Horton Compressor Station
NMOCD Incident No. nAPP2105050187
Release Excavation Clearance

Photo 3: Excavation. View is to the southeast.

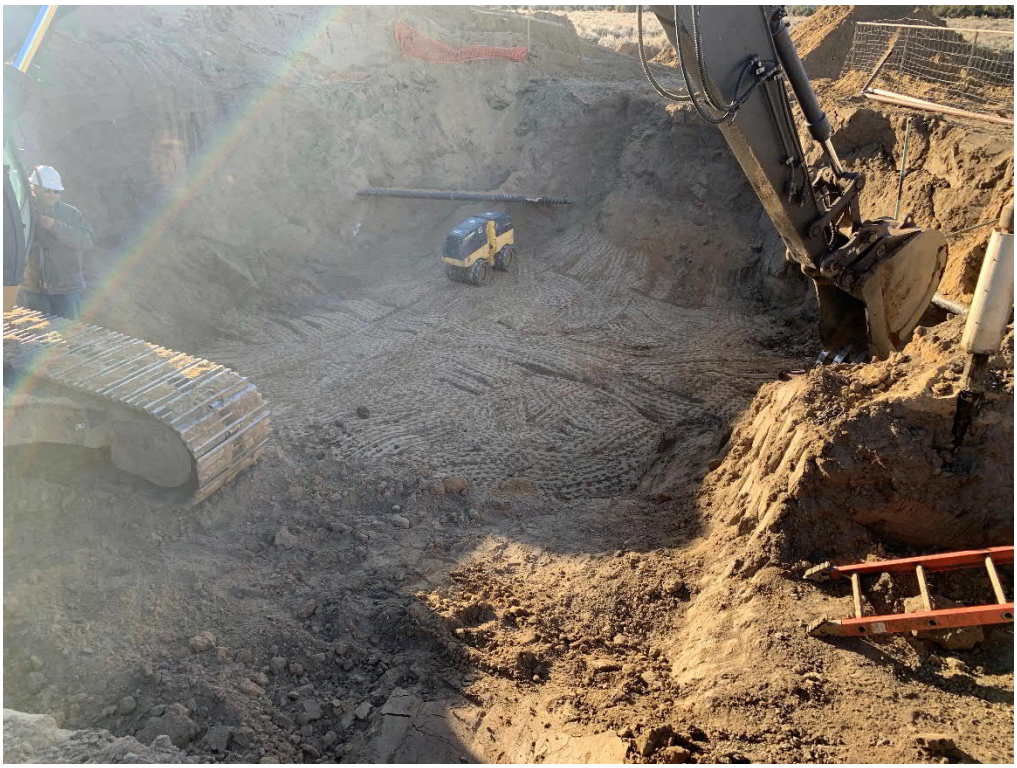


Photo 4: Northwest corner of excavation.

Horton Compressor Station
NMOCD Incident No. nAPP2105050187
Release Excavation Clearance

Photo 5: Excavation. View is to the south.

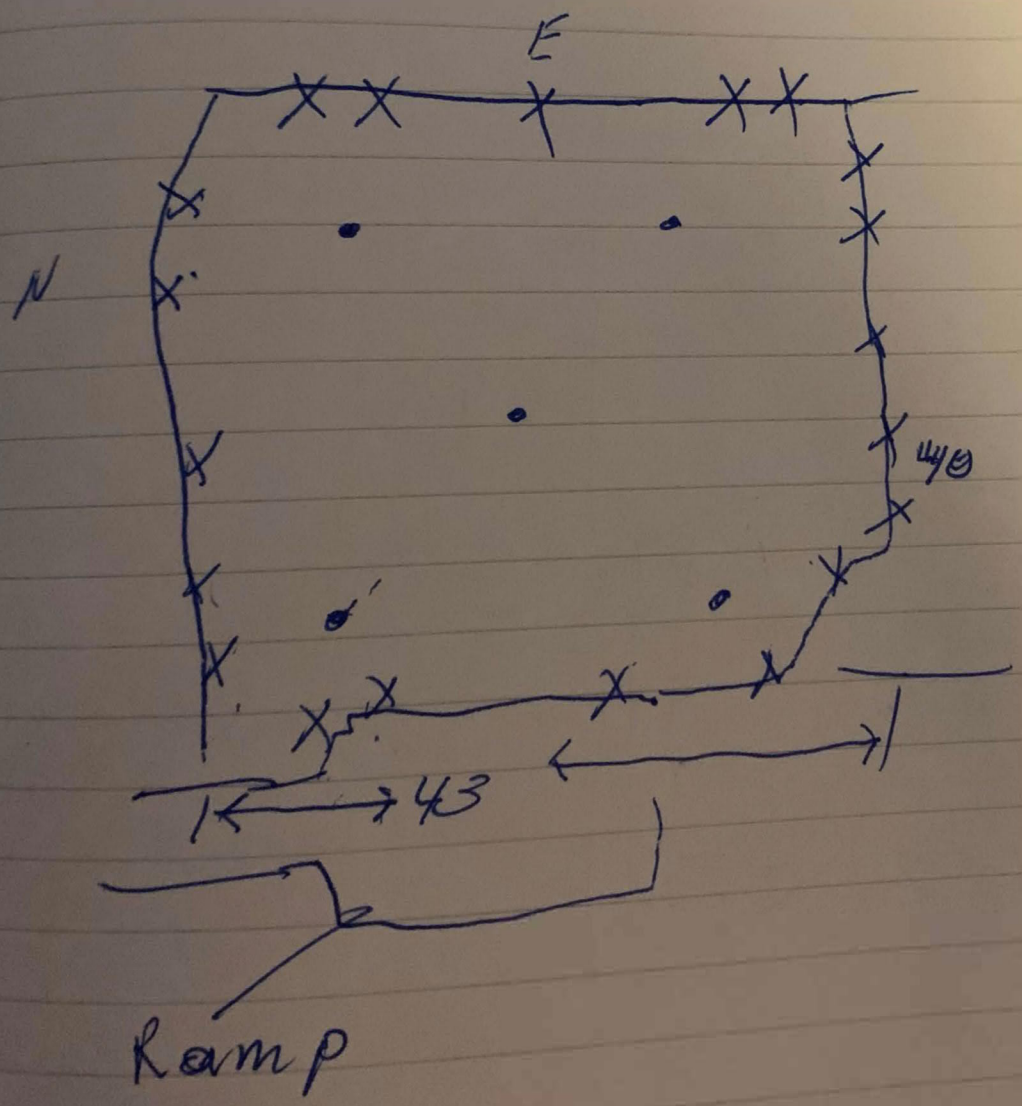
Photo 6: Backfilled excavation, April 2021.

Horton Compressor

DATE: 3-9-21

TOPIC: Horton

Impacted 1126 Need ~ 176 Yds



Dump Truck
Hauled ~~Off~~
~~To~~ Yard 192

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

March 08, 2021

Kijun Hong
Harvest
1755 Arroyo Dr.
Bloomfield, NM 87413
TEL: (505) 632-4475
FAX:

RE: Horton Compressor OrderNo.: 2103374

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/6/2021 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
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2103374**
Date Reported: **3/8/2021**

CLIENT: Harvest
Client Sample ID: Bottom Comp
Project: Horton Compressor
Collection Date: 3/5/2021 8:00:00 AM
Lab ID: 2103374-001 **Matrix:** SOIL **Received Date:** 3/6/2021 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	3/6/2021 6:14:23 PM	58553
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/6/2021 12:33:40 PM	58551
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/6/2021 12:33:40 PM	58551
Surr: DNOP	97.2	70-130		%Rec	1	3/6/2021 12:33:40 PM	58551
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	3/6/2021 7:21:30 PM	G75751
Surr: BFB	103	75.3-105		%Rec	1	3/6/2021 7:21:30 PM	G75751
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	3/6/2021 7:21:30 PM	B75751
Toluene	ND	0.037		mg/Kg	1	3/6/2021 7:21:30 PM	B75751
Ethylbenzene	ND	0.037		mg/Kg	1	3/6/2021 7:21:30 PM	B75751
Xylenes, Total	ND	0.073		mg/Kg	1	3/6/2021 7:21:30 PM	B75751
Surr: 4-Bromofluorobenzene	97.7	80-120		%Rec	1	3/6/2021 7:21:30 PM	B75751

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

Qualifiers:

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

Analytical Report
Lab Order **2103374**
Date Reported: **3/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: West Wall
Project: Horton Compressor
Collection Date: 3/5/2021 8:10:00 AM
Lab ID: 2103374-002 **Matrix:** SOIL **Received Date:** 3/6/2021 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	3/6/2021 6:26:48 PM	58553
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/6/2021 1:09:50 PM	58551
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/6/2021 1:09:50 PM	58551
Surr: DNOP	97.3	70-130		%Rec	1	3/6/2021 1:09:50 PM	58551
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	3/6/2021 7:44:53 PM	G75751
Surr: BFB	97.3	75.3-105		%Rec	1	3/6/2021 7:44:53 PM	G75751
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	3/6/2021 7:44:53 PM	B75751
Toluene	ND	0.037		mg/Kg	1	3/6/2021 7:44:53 PM	B75751
Ethylbenzene	ND	0.037		mg/Kg	1	3/6/2021 7:44:53 PM	B75751
Xylenes, Total	ND	0.075		mg/Kg	1	3/6/2021 7:44:53 PM	B75751
Surr: 4-Bromofluorobenzene	92.6	80-120		%Rec	1	3/6/2021 7:44:53 PM	B75751

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

Qualifiers:

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

Analytical Report
Lab Order **2103374**
Date Reported: **3/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: North Wall
Project: Horton Compressor
Collection Date: 3/5/2021 8:20:00 AM
Lab ID: 2103374-003 **Matrix:** SOIL **Received Date:** 3/6/2021 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	3/6/2021 7:04:00 PM	58553
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/6/2021 1:21:59 PM	58551
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/6/2021 1:21:59 PM	58551
Surr: DNOP	99.5	70-130		%Rec	1	3/6/2021 1:21:59 PM	58551
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	3/6/2021 8:08:12 PM	G75751
Surr: BFB	99.8	75.3-105		%Rec	1	3/6/2021 8:08:12 PM	G75751
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.021		mg/Kg	1	3/6/2021 8:08:12 PM	B75751
Toluene	ND	0.042		mg/Kg	1	3/6/2021 8:08:12 PM	B75751
Ethylbenzene	ND	0.042		mg/Kg	1	3/6/2021 8:08:12 PM	B75751
Xylenes, Total	ND	0.084		mg/Kg	1	3/6/2021 8:08:12 PM	B75751
Surr: 4-Bromofluorobenzene	94.8	80-120		%Rec	1	3/6/2021 8:08:12 PM	B75751

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

Qualifiers:

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

Analytical Report
Lab Order **2103374**
Date Reported: **3/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: East Wall
Project: Horton Compressor
Collection Date: 3/5/2021 8:30:00 AM
Lab ID: 2103374-004 **Matrix:** SOIL **Received Date:** 3/6/2021 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	3/6/2021 7:16:25 PM	58553
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/6/2021 1:34:07 PM	58551
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/6/2021 1:34:07 PM	58551
Surr: DNOP	100	70-130		%Rec	1	3/6/2021 1:34:07 PM	58551
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/6/2021 8:31:52 PM	G75751
Surr: BFB	99.0	75.3-105		%Rec	1	3/6/2021 8:31:52 PM	G75751
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	3/6/2021 8:31:52 PM	B75751
Toluene	ND	0.048		mg/Kg	1	3/6/2021 8:31:52 PM	B75751
Ethylbenzene	ND	0.048		mg/Kg	1	3/6/2021 8:31:52 PM	B75751
Xylenes, Total	ND	0.096		mg/Kg	1	3/6/2021 8:31:52 PM	B75751
Surr: 4-Bromofluorobenzene	94.7	80-120		%Rec	1	3/6/2021 8:31:52 PM	B75751

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

Qualifiers:

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

Analytical Report
Lab Order **2103374**
Date Reported: **3/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Client Sample ID: South Wall
Project: Horton Compressor
Collection Date: 3/5/2021 8:40:00 AM
Lab ID: 2103374-005 **Matrix:** SOIL **Received Date:** 3/6/2021 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	3/6/2021 7:28:49 PM	58553
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/6/2021 1:46:22 PM	58551
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/6/2021 1:46:22 PM	58551
Surr: DNOP	96.6	70-130		%Rec	1	3/6/2021 1:46:22 PM	58551
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/6/2021 8:55:28 PM	G75751
Surr: BFB	102	75.3-105		%Rec	1	3/6/2021 8:55:28 PM	G75751
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	3/6/2021 8:55:28 PM	B75751
Toluene	ND	0.048		mg/Kg	1	3/6/2021 8:55:28 PM	B75751
Ethylbenzene	ND	0.048		mg/Kg	1	3/6/2021 8:55:28 PM	B75751
Xylenes, Total	ND	0.096		mg/Kg	1	3/6/2021 8:55:28 PM	B75751
Surr: 4-Bromofluorobenzene	97.4	80-120		%Rec	1	3/6/2021 8:55:28 PM	B75751

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2103374**

08-Mar-21

Client: Harvest

Project: Horton Compressor

Sample ID: **MB-58553**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **58553**	RunNo: **75748**
Prep Date: **3/6/2021**	Analysis Date: **3/6/2021**	SeqNo: **2679509** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-58553**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **58553**	RunNo: **75748**
Prep Date: **3/6/2021**	Analysis Date: **3/6/2021**	SeqNo: **2679510** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.5	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2103374**

08-Mar-21

Client: Harvest

Project: Horton Compressor

Sample ID: **MB-58551**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **58551**	RunNo: **75744**
Prep Date: **3/6/2021**	Analysis Date: **3/6/2021**	SeqNo: **2679384** Units: **mg/Kg**

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	9.9		10.00		99.1	70	130			

Sample ID: **LCS-58551**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **58551**	RunNo: **75744**
Prep Date: **3/6/2021**	Analysis Date: **3/6/2021**	SeqNo: **2679385** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.5	68.9	141			
Surr: DNOP	4.7		5.000		93.4	70	130			

Sample ID: **2103374-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **Bottom Comp**	Batch ID: **58551**	RunNo: **75744**
Prep Date: **3/6/2021**	Analysis Date: **3/6/2021**	SeqNo: **2679387** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	9.4	46.82	0	81.8	15	184			
Surr: DNOP	4.3		4.682		92.4	70	130			

Sample ID: **2103374-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **Bottom Comp**	Batch ID: **58551**	RunNo: **75744**
Prep Date: **3/6/2021**	Analysis Date: **3/6/2021**	SeqNo: **2679388** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	9.1	45.33	0	82.7	15	184	2.13	23.9	
Surr: DNOP	4.2		4.533		91.9	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
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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2103374**

08-Mar-21

Client: Harvest

Project: Horton Compressor

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G75751**	RunNo: **75751**
Prep Date:	Analysis Date: **3/6/2021**	SeqNo: **2679659** 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	1100		1000		111	75.3	105			S

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G75751**	RunNo: **75751**
Prep Date:	Analysis Date: **3/6/2021**	SeqNo: **2679660** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	80	120			
Surr: BFB	1200		1000		119	75.3	105			S

Sample ID: **2103374-001a ms**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **Bottom Comp**	Batch ID: **G75751**	RunNo: **75751**
Prep Date:	Analysis Date: **3/6/2021**	SeqNo: **2679666** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	3.7	18.37	0	105	61.3	114			
Surr: BFB	840		734.8		115	75.3	105			S

Sample ID: **2103374-001a msd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **Bottom Comp**	Batch ID: **G75751**	RunNo: **75751**
Prep Date:	Analysis Date: **3/6/2021**	SeqNo: **2679667** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	3.7	18.37	0	106	61.3	114	0.989	20	
Surr: BFB	900		734.8		122	75.3	105	0	0	S

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
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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2103374**

08-Mar-21

Client: Harvest

Project: Horton Compressor

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B75751**	RunNo: **75751**
Prep Date:	Analysis Date: **3/6/2021**	SeqNo: **2679677** 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	1.1		1.000		106	80	120			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B75751**	RunNo: **75751**
Prep Date:	Analysis Date: **3/6/2021**	SeqNo: **2679678** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.4	80	120			
Toluene	0.96	0.050	1.000	0	95.7	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	80	120			

Sample ID: **2103374-002a ms**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **West Wall**	Batch ID: **B75751**	RunNo: **75751**
Prep Date:	Analysis Date: **3/6/2021**	SeqNo: **2679684** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.65	0.019	0.7457	0	87.5	76.3	120			
Toluene	0.68	0.037	0.7457	0	90.6	78.5	120			
Ethylbenzene	0.68	0.037	0.7457	0	91.0	78.1	124			
Xylenes, Total	2.0	0.075	2.237	0	90.5	79.3	125			
Surr: 4-Bromofluorobenzene	0.75		0.7457		100	80	120			

Sample ID: **2103374-002a msd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **West Wall**	Batch ID: **B75751**	RunNo: **75751**
Prep Date:	Analysis Date: **3/6/2021**	SeqNo: **2679685** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.65	0.019	0.7457	0	87.4	76.3	120	0.103	20	
Toluene	0.68	0.037	0.7457	0	90.7	78.5	120	0.110	20	
Ethylbenzene	0.68	0.037	0.7457	0	90.7	78.1	124	0.396	20	
Xylenes, Total	2.0	0.075	2.237	0	90.5	79.3	125	0.0553	20	
Surr: 4-Bromofluorobenzene	0.77		0.7457		104	80	120	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
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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: Harvest | Work Order Number: 2103374 | RcptNo: 1

Received By: Juan Rojas 3/6/2021 8:55:00 AM

Completed By: Juan Rojas 3/6/2021 9:11:12 AM

Reviewed By: 03/06/2021

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JR 3/6/21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good				

Chain-of-Custody Record

Client: Harvest midstream

Mailing Address: 1755 ARGO 40 DR
Bloomfield NM 87413

Phone #: 505--632-4475

email or Fax#: khong@harvestmidstream.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time: same day
☐ Standard ☑ Rush 3-8-21

Project Name: Horton compressor

Project #:

Project Manager: KIJUN HONG

Sampler: Morgan Killion

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.6+0.2=1.4

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

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 2103374	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	chlorides				Air Bubbles (Y or N)
3/5/21	8:00	soil	Bottom comp-	1-402	(Cool)	-001	X		X									X				
3/5/21	8:10	soil	West wall	1-402		-002	X		X									X				
3/5/21	8:20	soil	North wall	1-402		-003	X		X									X				
3/5/21	8:30	soil	East wall	1-402		-004	X		X									X				
3/5/21	8:40	soil	South wall	1-402		-005	X		X									X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
3/5/21	1324			3/5/21	1324
Date:	Time:	Relinquished by:	Received by:	Date	Time
3/5/21	1845		courier	3/6/21	8:55

Remarks:

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.

From:	Smith, Cory, EMNRD
To:	Kijun Hong
Cc:	Karen Lupton; Griswold, Jim, EMNRD; Monica Smith; Jim Stiffler; Elizabeth McNally; Angela Ledgerwood; Hernandez, Emily, EMNRD; Stanley Dean; Robert Maxwell - (C)
Subject:	RE: [EXTERNAL] RE: Immediate Notification - Harvest - Horton Compressor Station - Tank Valve Failure
Date:	Thursday, March 4, 2021 8:47:12 AM

Kijun,

That works for us.. thank you for the notification for confirmation sampling at the Horton Compressor Station (no incident # given) for Friday March 5, 2021 at 8AM. If an OCD representative is not onsite please sample per 19.15.29 NMAC. If the Date and/or Time changes please notify OCD ASAP so we may adjust our schedules.

Thank you,

Cory Smith • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1000 Rio Brazos | Aztec, NM 87410
505.334.6178 x115 | Cory.Smith@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Kijun Hong <khong@harvestmidstream.com>
Sent: Wednesday, March 3, 2021 11:25 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Karen Lupton <klupton@animasenvironmental.com>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>; Monica Smith <msmith@harvestmidstream.com>; Jim Stiffler <jstiffler@harvestmidstream.com>; McNally, Elizabeth <emcnally@animasenvironmental.com>; Angela Ledgerwood <aledgerwood@animasenvironmental.com>; Hernandez, Emily, EMNRD <Emily.Hernandez@state.nm.us>; Stanley Dean <sdean@harvestmidstream.com>; Robert Maxwell - (C) <Robert.Maxwell@harvestmidstream.com>
Subject: [EXT] RE: [EXTERNAL] RE: Immediate Notification - Harvest - Horton Compressor Station - Tank Valve Failure

8am work for you?

From: Smith, Cory, EMNRD [mailto:Cory.Smith@state.nm.us]
Sent: Wednesday, March 3, 2021 11:18 AM
To: Kijun Hong
Cc: Karen Lupton; Griswold, Jim, EMNRD; Monica Smith; Jim Stiffler; McNally, Elizabeth; Angela Ledgerwood; Hernandez, Emily, EMNRD; Stanley Dean; Robert Maxwell - (C)
Subject: RE: [EXTERNAL] RE: Immediate Notification - Harvest - Horton Compressor Station - Tank Valve Failure

Kijun,

Thanks for the update… what time is the expect sampling on Friday suppose to occur?

Please also make sure to notify the Surface owner of the proposed sampling date/time.

Cory Smith • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1000 Rio Brazos | Aztec, NM 87410
505.334.6178 x115 | Cory.Smith@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Kijun Hong <khong@harvestmidstream.com>
Sent: Wednesday, March 3, 2021 10:13 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Karen Lupton <klupton@animasenvironmental.com>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>; Monica Smith <msmith@harvestmidstream.com>; Jim Stiffler <jstiffler@harvestmidstream.com>; McNally, Elizabeth <emcnally@animasenvironmental.com>; Angela Ledgerwood <aledgerwood@animasenvironmental.com>; Hernandez, Emily, EMNRD <Emily.Hernandez@state.nm.us>; Stanley Dean <sdean@harvestmidstream.com>; Robert Maxwell - (C) <Robert.Maxwell@harvestmidstream.com>
Subject: [EXT] RE: [EXTERNAL] RE: Immediate Notification - Harvest - Horton Compressor Station - Tank Valve Failure

Hey Cory,
We did find failures in the liner and have been digging/hauling to remediate.

We are ready to sample Friday morning if OCD would like to come out and witness. I have attached the initial site evaluation for the cleanup standards.

Please get with Stan Dean to coordinate 505-215-2231.

Thanks,
Kijun

From: Kijun Hong
Sent: Friday, February 19, 2021 3:13 PM
To: Smith, Cory, EMNRD
Cc: Karen Lupton; Griswold, Jim, EMNRD; Monica Smith; Jim Stiffler; McNally, Elizabeth; Angela Ledgerwood; Hernandez, Emily, EMNRD
Subject: Re: [EXTERNAL] RE: Immediate Notification - Harvest - Horton Compressor Station - Tank Valve Failure

Yes, release was contained inside containment.

Thanks Cory

On Feb 19, 2021, at 2:12 PM, Smith, Cory, EMNRD <Cory.Smith@state.nm.us> wrote:

Kijun,

Thank you for the notification, did the release stay within the Secondary containment?

Please submit a C-141 initial no later than March 6, 2021.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Karen Lupton <klupton@animasenvironmental.com>
Sent: Friday, February 19, 2021 1:36 PM
To: Kijun Hong <khong@harvestmidstream.com>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>
Cc: Monica Smith <msmith@harvestmidstream.com>; Jim Stiffler <jstiffler@harvestmidstream.com>; McNally, Elizabeth <emcnally@animasenvironmental.com>; Angela Ledgerwood <aledgerwood@animasenvironmental.com>
Subject: [EXT] RE: Immediate Notification - Harvest - Horton Compressor Station - Tank Valve Failure

Thank you Kijun – we will start the C-141 process.

Karen

From: Kijun Hong <khong@harvestmidstream.com>
Sent: Friday, February 19, 2021 1:34 PM
To: 'Smith, Cory, EMNRD' <Cory.Smith@state.nm.us>; 'Griswold, Jim, EMNRD' <Jim.Griswold@state.nm.us>
Cc: Monica Smith <msmith@harvestmidstream.com>; Jim Stiffler <jstiffler@harvestmidstream.com>; Elizabeth McNally <emcnally@animasenvironmental.com>; Karen Lupton <klupton@animasenvironmental.com>; Angela Ledgerwood

<aledgerwood@animasenvironmental.com>
Subject: Immediate Notification - Harvest - Horton Compressor Station - Tank Valve Failure

Harvest discovered a release today (2/19/2021) at our Horton Compressor Station (36.95388, -108.08566) from a tank valve failure due to freeze.

We anticipate the final liquids loss volume to be greater than 25 bbls constituting a major release. Release occurred inside secondary containment and is a mixture of produced water and condensate.

Once cleanup is complete, Harvest will coordinate a liner inspection as required. We are in the process of recovering all free liquids.

There were no fires, injuries, and no emergency services were dispatched in association with this release.

Please let this serve as immediate notification. Further details to follow.

Thank You,
Kijun

<image002.png>
Kijun Hong | Harvest Midstream Company| Environmental Specialist | Four Corners
Office: 505-632-4475 | Cell: 505-436-8457 | 1755 Arroyo Dr., Bloomfield, NM 87413

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From:	Kijun Hong
To:	Smith, Cory, EMNRD
Cc:	Karen Lupton; Griswold, Jim, EMNRD; Monica Smith; Jim Stiffler; Elizabeth McNally; Angela Ledgerwood; Hernandez, Emily, EMNRD; Stanley Dean; Robert Maxwell - (C)
Subject:	RE: [EXTERNAL] RE: Immediate Notification - Harvest - Horton Compressor Station - Tank Valve Failure
Date:	Wednesday, March 3, 2021 10:13:05 AM
Attachments:	C-141 NMOCD Soil Threshold Worksheet 030221 DR.PDF

Hey Cory,
We did find failures in the liner and have been digging/hauling to remediate.

We are ready to sample Friday morning if OCD would like to come out and witness. I have attached the initial site evaluation for the cleanup standards.

Please get with Stan Dean to coordinate 505-215-2231.

Thanks,
Kijun

From: Kijun Hong
Sent: Friday, February 19, 2021 3:13 PM
To: Smith, Cory, EMNRD
Cc: Karen Lupton; Griswold, Jim, EMNRD; Monica Smith; Jim Stiffler; McNally, Elizabeth; Angela Ledgerwood; Hernandez, Emily, EMNRD
Subject: Re: [EXTERNAL] RE: Immediate Notification - Harvest - Horton Compressor Station - Tank Valve Failure

Yes, release was contained inside containment.

Thanks Cory

> On Feb 19, 2021, at 2:12 PM, Smith, Cory, EMNRD <Cory.Smith@state.nm.us> wrote:
>
> Kijun,
>
> Thank you for the notification, did the release stay within the Secondary containment?
>
> Please submit a C-141 initial no later than March 6, 2021.
>
> Cory Smith
> Environmental Specialist
> Oil Conservation Division

Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Karen Lupton <klupton@animasenvironmental.com>
Sent: Friday, February 19, 2021 1:36 PM
To: Kijun Hong <khong@harvestmidstream.com>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>
Cc: Monica Smith <msmith@harvestmidstream.com>; Jim Stiffler <jstiffler@harvestmidstream.com>; McNally, Elizabeth <emcnally@animasenvironmental.com>; Angela Ledgerwood <aledgerwood@animasenvironmental.com>
Subject: [EXT] RE: Immediate Notification - Harvest - Horton Compressor Station - Tank Valve Failure

Thank you Kijun – we will start the C-141 process.

Karen

From: Kijun Hong <khong@harvestmidstream.com>
Sent: Friday, February 19, 2021 1:34 PM
To: 'Smith, Cory, EMNRD' <Cory.Smith@state.nm.us>; 'Griswold, Jim, EMNRD' <Jim.Griswold@state.nm.us>
Cc: Monica Smith <msmith@harvestmidstream.com>; Jim Stiffler <jstiffler@harvestmidstream.com>; Elizabeth McNally <emcnally@animasenvironmental.com>; Karen Lupton <klupton@animasenvironmental.com>; Angela Ledgerwood <aledgerwood@animasenvironmental.com>
Subject: Immediate Notification - Harvest - Horton Compressor Station - Tank Valve Failure

Harvest discovered a release today (2/19/2021) at our Horton Compressor Station (36.95388, -108.08566) from a tank valve failure due to freeze.

We anticipate the final liquids loss volume to be greater than 25 bbls constituting a major release. Release occurred inside secondary containment and is a mixture of produced water and condensate.

Once cleanup is complete, Harvest will coordinate a liner inspection as required. We are in the process of recovering all free liquids.

There were no fires, injuries, and no emergency services were dispatched in association with this release.

Please let this serve as immediate notification. Further details to follow.

Thank You,
Kijun

<image002.png>
Kijun Hong | Harvest Midstream Company| Environmental Specialist | Four Corners
Office: 505-632-4475 | Cell: 505-436-8457 | 1755 Arroyo Dr., Bloomfield, NM 87413

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NMOCD Site Assessment/Characterization, Remediation & Closure

Site Name:	**Horton Compressor Station**
API or Facility#:	fCS00000000189
Lat/Long:	N36.954092 W108.085317
TRS:	K-27-32N-12W
Land Jurisdiction:	Private
County:	San Juan
Determination made by:	David Reese, CHMM/Environmental Scientist
Date:	3/2/2021

Wellhead Protection Area Assessment:

Determine the horizontal distance from all known water sources within 1/2 mile of the release including private and domestic water sources. Water sources are wells, springs or other sources of fresh water extraction. Private and domestic water sources are those water sources used by less than five households for domestic or stock purposes. (NMAC 19.15.29.11A.3)

Water Source Type (well/spring/stock pond)	ID (if available)	Latitude	Longitude	Distance
none within 1/2 mile				

Distance to Nearest Significant Watercourse (NMAC 19.15.29.11A.4)

an unnamed blue-line wash is 0.25 mi to the NNW, ultimately drains to the La Plata River

Depth to Groundwater Determination (NMAC 19.15.29.11A.2)

Cathodic Report/Site Specific Hydrogeology	A 2017 hydrogeologic report (part of BGT registration C-144) estimated dtw at > 100 ft bgs.
Elevation Differential	~25 ft higher than wash to the NNW
Water Wells	no registered wells within 1/2 mile
Cathodic Report Nearby Wells	A hydrogeologic report at the Horton Federal CB-27 #1, located 360 ft to the NE, estimated dtw at 45 ft bgs.

Sensitive Receptor Determination

If a release occurs within the following areas, the RP must treat the release as if it occurred less than 50 ft to Groundwater (NMAC 19.15.29.12C.4):	Yes	No
<300' of any continuously flowing watercourse or any other significant watercourse	☐	☑
<200' of any lakebed, sinkhole or playa lake (measured from the Ordinary High Water Mark)	☐	☑
<300' of an occupied permanent residence, school, hospital, institution or church	☐	☑
<500' of a spring or private/domestic water well used by <5 households for domestic or stock watering purposes	☐	☑
<1000' of any water well or spring	☐	☑
within incorporated municipal boundaries or within a defined municipal fresh water well field	☐	☑
<300' of a wetland	☐	☑
within the area overlying a subsurface mine	☐	☑
within an unstable area	☐	☑
within a 100-year floodplain	☐	☑

Explain any 'Yes' Marks:

Actual Depth to Groundwater is: ≤50 ☐ 50-100 ☐ >100 ☑

***Treat Depth to Groundwater as if it is ≤ 50 ft?** Yes ☐ No ☑

	≤50	50-100	>100
Release Action Levels are... Benzene	**10**	**10**	**10**
BTEX (mg/kg)	**50**	**50**	**50**
8015 TPH (GRO/DRO) (mg/kg)	**Not Applicable**	**1,000**	**1,000**
8015 TPH (GRO/DRO/MRO) (mg/kg)	**100**	**2,500**	**2,500**
Chlorides (mg/kg)	**600**	**10,000**	**20,000**

NMAC 19.15.29.12 Table I. Release Action Levels are determined by the depth below bottom of pit to groundwater.

Horton Compressor Station
Hydrogeologic Report for Siting Criteria

General Geology and Hydrology

The San Juan Basin is a typical Rocky Mountain basin with a gently dipping southern flank and a steeply dipping northern flank. Asymmetrically layered Tertiary sandstones and shales, along with Quaternary alluvial deposits dominate surficial geology (Dane and Bachman, 1965). The below ground tank location is located on a topographic high due east of the La Plata River and east-northeast of La Plata, New Mexico. Within the reaches of the La Plata River, the Tertiary Nacimiento Formation is exposed, along with Quaternary alluvial and aeoloian sands surrounding the center of the wash.

Cretaceous and Tertiary sandstones, as well as Quaternary alluvial deposits serve as the primary aquifers in the San Juan. In most of the area, the Nacimiento Formation lies at the surface. Thickness of the Nacimiento ranges from 418 feet to 2,232 feet, aquifers within the coarser and continuous sandstone bodies are between 0 feet and 1,000 feet deep in this section of the San Juan Basin (Stone et al., 1983). Groundwater within these aquifers flows toward the nearby San Juan River and its tributaries.

The prominent soil type at the below-ground grade tank are entisols, which are defined as soils that do not show any profile development. Soils are basically unaltered from their parent rock. Miles of arroyos, washes, and intermittent streams exist as part of the drainage network toward the San Juan River (www.emnrd.state.nm.us). These features often cut into soil and other unconsolidated materials, contributing to sedimentation downstream. The sudden influx of water from storm events easily erodes soils that cover the area.

Dry and arid weather further prohibit active recharge. The climate of the region is arid, averaging approximately 9.79 inches of rainfall annually. As is typical of the southwestern United States monsoonal weather patterns, most precipitation falls from August through October. The heaviest rainfall occurs in the summer in isolated, intense cloudbursts. November through June is relatively dry. Snow generally falls from December to mid-February and averages less than one-half inch in depth. However, most recharge occurs during the winter months during snowmelt periods from the upper elevations (Western Regional Climate Center www.wrcc.dri.edu). The predominant vegetation are sagebrush and grasses with a more restricted pinon-juniper association (Dick-Peddie, 1993).

Site-Specific Hydrogeology

Depth to groundwater is estimated to be greater than 100 feet beneath the bottom of the below-grade tank. This estimation is based on data from Stone et al. (1983), the United States

Geological Survey (USGS) *Groundwater Atlas of the United States.* Additionally, local topography and proximity to surface hydrologic features are taken into consideration. When available, permitted water well logs and cathodic protection well logs are referenced to infer depth to groundwater near the site.

Local aquifers include sandstones within the Nacimiento Formation, which range from 0 feet to 1,000 feet below ground surface in this area, as well as shallow aquifers within Quaternary alluvial deposits (Stone et al., 1983). The 1,000-foot depth range for Nacimiento aquifers covers an area greater than 20 miles wide in the central San Juan Basin and depth decreases toward the margins of the San Juan Basin.

The below-grade tank is located in a region incised by washes, gullies, and arroyos, with the McDermott Arroyo and the La Plata River being the predominant topographic features. Groundwater is expected to be shallow within the reaches of the La Plata River, as the Quaternary deposits near the wash itself form shallow aquifers. The below-grade tank is located at an elevation of 6,140 feet and is in the upper reaches of Hartley Wash which drains to McDermott Arroyo. An elevation difference between the site and the primary channel of the Hartley Wash of approximately 215 feet suggests groundwater is greater than 100 feet beneath the below-grade tank. The nearest relevant iWaters data point with similar topographical characteristics and associated depth to groundwater information is well number SJ 03583 located approximately 1.79 miles to the northeast. Depth to groundwater in the permitted water well is 60 feet below ground surface.

References

Dane, C.H. and G.O. Bachman, 1965, *Geologic Map of New Mexico*: U.S. Geological Survey, 1 sheet, scale 1:500,000.

Dick-Peddie, W.A., 1993, *New Mexico Vegetation – Past, Present and Future*: Albuquerque, New Mexico, University of New Mexico Press, 244 p.

Stone, W.J., F.P. Lyford, P.F. Frenzel, N.H. Mizell, and E.T. Padgett, 1983, *Hydrogeology and Water Resources of the San Juan Basin, New Mexico*: HR-6 New Mexico Bureau of Geology and Mineral Resources Hydrology Report 6.

USGS, Groundwater Atlas of the United States: Arizona, Colorado, New Mexico, Utah, HA 730-C: (http://www.pubs.usgs.gov).

Western Region Climate Center, 2008, New Mexico climate summaries: Desert Research Institute at http://www.wrcc.dri.edu/summary/climsmnm.html.

New Mexico Energy, Minerals and Natural Resources Department, www.emnrd.state.nm.us.

New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

No PODs found.

PLSS Search:

Section(s): 27 **Township:** 32N **Range:** 12W

New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

No PODs found.

PLSS Search:

Section(s): 28 **Township:** 32N **Range:** 12W

New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

No PODs found.

PLSS Search:

Section(s): 34 **Township:** 32N **Range:** 12W

National Flood Hazard Layer FIRMette

FEMA

108°5'26"W 36°57'29"N

108°4'48"W 36°57'N

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

1:6,000

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

Legend

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

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

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

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

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

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

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

N

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/2/2021 at 5:06 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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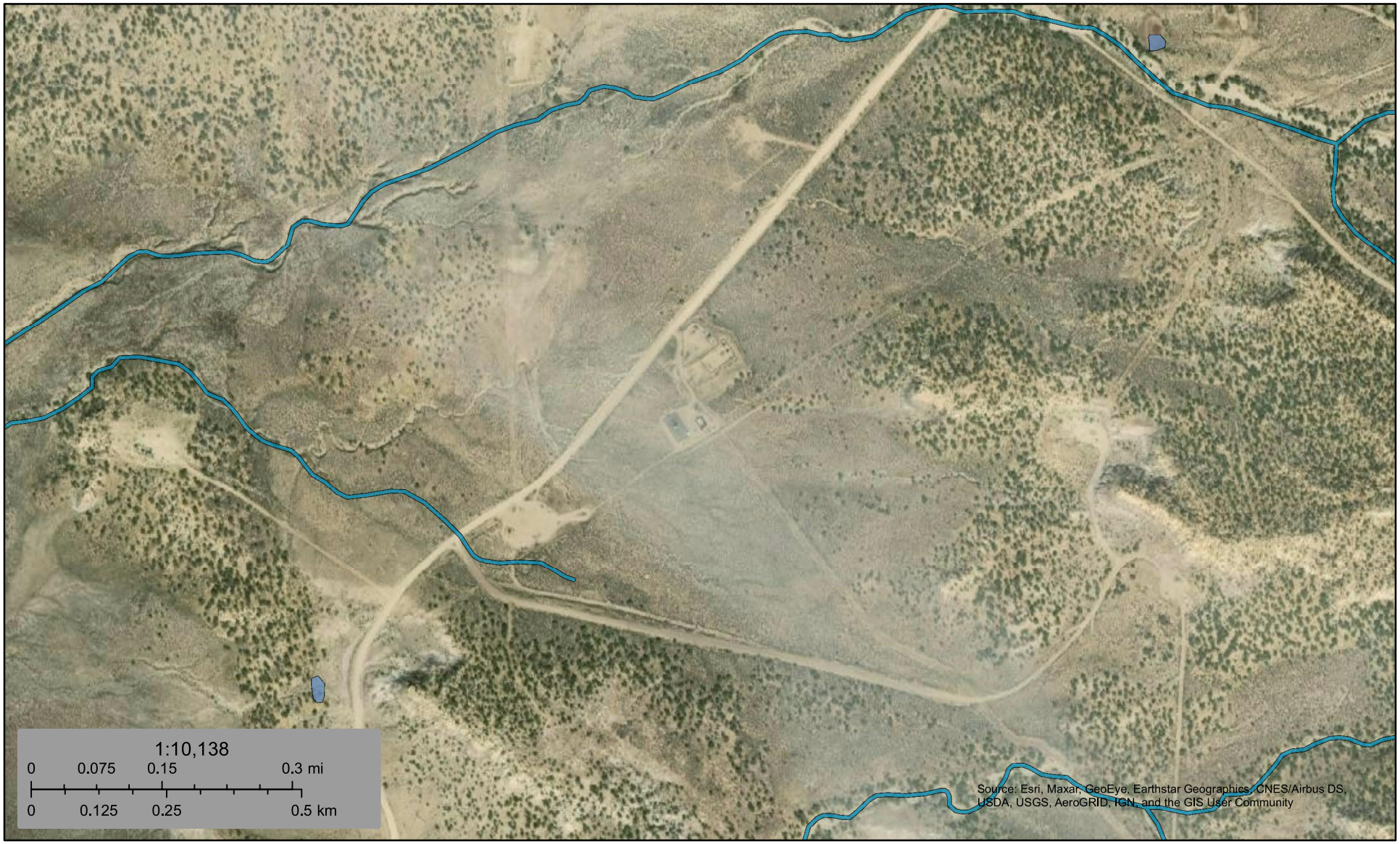
U.S. Fish and Wildlife Service

National Wetlands Inventory

Horton Compressor Station



March 2, 2021

Wetlands

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

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

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

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District II
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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 24643

CONDITIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 24643
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	6/15/2022