State of New Mexico
Oil Conservation Division

Incident ID	NRM2022638776
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?	212 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NRM2022638776
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: Albert Ochoa Title: HSE Representative

Signature: Albert Ochoa Date: 12/23/2020

email: albert.ochoa@goodnightmidstream.com Telephone: (432) 242-6629

OCD Only

Received by: _____ Date: _____

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	NRM2022638776
District RP	
Facility ID	
Application ID	

Remediation Plan

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

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Albert Ochoa Title: HSE Representative

Signature: Albert Ochoa Date: 12/23/2020

email: albert.ochoa@goodnightmidstream.com Telephone: (432) 242-6629

OCD Only

Received by: Chad Hensley Date: 03/10/2021

☒ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Chad Hensley Date: 03/10/201

REMEDIATION WORK PLAN

Property:

Goodnight Midstream
Dodger Injection Well
Lea County, New Mexico
Unit Letter "F", Section 4, Township 22 South, Range 36 East
Latitude 32.424203, Longitude -103.273661

NRM2022638776

December 2020

Prepared for:

Goodnight Midstream
11612 Tower Rd
Midland, TX

Attn: **Mr. Albert Ochoa**

Prepared by:

Thomas Franklin
Environmental Manager

Jack Zimmerman, PG, CPG
Senior Geologist

American Safety Services, Inc. (Geoscience License #50528)
8715 Andrews Hwy. • Odessa, TX 79765. • T 432.552.7625 • www.americansafety.net

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1.2 Project Objective 1
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Figure 2 - Site Vicinity Map
Figure 3 - Sample Location Map (August 5, 2020 sampling event)
Figure 4 - Sample Location Map (Proposed confirmation sampling grid)
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REMEDIATION WORK PLAN

Goodnight Midstream
Dodger Injection Well
Lea County, New Mexico
Unit Letter "F", Section 4, Township 22 South, Range 36 East
Latitude 32.424203, Longitude -103.273661
NRM2022638776

December 2020

1.0 INTRODUCTION

1.1 Site Description & Background

American Safety Services Inc. (ASSI) has prepared this Remediation Work Plan for Goodnight Midstream at the Dodger Injection Well (referred to hereinafter as the "Site" or "subject Site"). This Remediation Work Plan is based upon data collected by ASSI on August 5, 2020 and the interpretation of that data.

The Site is located in Unit Letter "F", Section 4, Township 22 South, Range 36 East, Lea County, New Mexico (GPS 32.424203, -103.273661). Figures 1 and 2 in Appendix A show the Site location.

Remedial action will be conducted in accordance with the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), the New Mexico Oil Conservation Division (NMOCD), and rules under the New Mexico Administrative Code (*NMAC 19.15.29*).

1.2 Project Objective

The objective of the Remediation Work Plan is to present documentation of the activities that were previously completed and to propose appropriate and effective remedial action based on interpretation of analytical results to the NMOCD.

1.3 Standard of Care

ASSI's services are performed in accordance with standards provided by a firm rendering the same or similar services in the area during the same time frame. ASSI makes no warranties, expressed or implied, as to the services performed hereunder. Additionally, ASSI does not warranty the work of third parties supplying information used in the Remediation Work Plan (e.g. laboratories, regulatory agencies, or other third parties). This scope of services will be performed in accordance with the scope of work agreed to by the client.

1.4 Reliance

This Remediation Work Plan has been prepared for the exclusive use of Goodnight Midstream, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Goodnight Midstream and ASSI. Any unauthorized distribution or reuse is at the sole risk of Goodnight Midstream. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and ASSI's Agreement. The limitation of liability defined in the agreement is the aggregate limit of ASSI's liability to the client.

2.0 PROPOSED REMEDIAL ACTION GOALS

In accordance with the NMAC 19.15.29, ASSI utilized the general site characteristics to determine the appropriate "ranking" for the Site.

- The depth to the initial groundwater-bearing zone is greater than one hundred feet at the Site,
- The impacted area is more than 1,000 feet from a water source, and
- Distance to the nearest surface water body is greater than 1,000 feet.

Cleanup goals for soils remaining in place include: 10 milligrams per kilogram (mg/Kg) for Benzene, 50 mg/Kg for Total Benzene, Toluene, Ethylbenzene, and Xylene (BTEX), 2,500 mg/Kg for Total Petroleum Hydrocarbons (TPH), and 20,000 mg/Kg for Chloride.

Figure 5 in Appendix A shows the location of the Site in Lea Co, New Mexico and surrounding topography.

3.0 INITIAL RESPONSE & SAMPLING ACTIVITIES

3.1 Initial Response

On August 5, 2020, ASSI personnel performed a site inspection in response to a release of fourteen (14) barrels (bbls) of produced water (NRM2022638776). The cause of the release was due to a 3/8'' plug that vibrated out of a pump, which in-turn allowed the release to occur directly onto the ground. All the released fluid was contained onsite, a vacuum truck was dispatched to recover the fluid. Twelve (12) bbls of produced water were recovered. ASSI determined the release footprint to be approximately two thousand four hundred and seventy (2,470) square feet (sq. ft.) of production pad.

3.2 Soil Sampling Activities

Initial sampling activities were conducted on August 5th by ASSI personnel, using a stainless-steel hand auger. Eight (8) auger holes were installed at various locations collecting material at discrete intervals from surface to one and-a-half (1.5) foot below ground surface (bgs) at sample locations Auger Hole 1 thru Auger Hole 4 and at a depth of one (1) foot bgs at sample locations North, South, East, and West. Table 1 in Appendix B presents analytical results. Figure 3 in Appendix A shows the approximate sample

locations during the August 5th sampling event. Soil was field screened for Chloride utilizing an electro conductivity meter during sample collection activities.

3.3 Soil Sampling Analytical Results

Twelve (12) soil samples were collected on August 5th from sample locations Auger Hole 1 through Auger Hole 4 as well as North, South, East, and West. Collected samples were delivered by ASSI personnel to Xenco Laboratories for analysis on August 5th. The samples were analyzed for BTEX, TPH, and Chloride. Analytical results were compared to *Table I of the NMAC 19.15.29.12* and show BTEX, TPH, and Chloride concentrations are below the NMOCD guidelines for clean-up goals at all sample locations.

4.0 LABORATORY ANALYTICAL METHODS

The samples were analyzed for BTEX using EPA method EPA 8021B, TPH utilizing EPA method SW8015 Mod, and Chloride utilizing EPA method 300. Laboratory analysis is provided in Appendix D.

Soil was collected in laboratory prepared glassware, placed on ice, and packed in a cooler. The sample coolers and completed chain-of-custody forms were relinquished to Xenco Laboratories in Midland, TX for a normal turn-around time.

5.0 INITIAL SURFACE ACTIVITIES

On August 6th at the request of Goodnight Midstream, a third-party contractor was instructed to address the surface staining on the production pad. Five (5) cubic yards (yd^3) of material (e.g. approximately the top 1 inch of soil) from within the release footprint was removed and temporally stockpiled on a plastic liner.

On September 9th the stockpiled material was removed by ASSI personnel under an appropriate manifest and transported to Sundance Services West, Inc., located in Eunice, New Mexico. Appendix F of this report contains the completed waste profile manifest for the material.

6.0 REMEDIATION WORK PLAN

Based upon the data collected (e.g. 12 soil samples) and review of analytical results for those twelve samples, the constituents of concern (COCs) have been both vertically and horizontally delineated.

Confirmation sampling will be completed. Confirmation samples will represent an area covering the release footprint. Each composite sample collected will represent no more than 200 sq. ft.

Specifically, a grid area will be designed covering the release footprint comprised of twelve (12) individual 10’ x 20’ cells equaling 200 sq. ft. each (Figure 4 in Appendix A). Twelve (12) 5-point composite samples will be collected.

The composite samples will be comprised of material from a total of sixty (60) sample points (e.g. 5-sample points within each 200 sq. ft. cell). Auger holes will be installed

with a stainless-steel hand auger. Twelve (12) samples will be submitted for laboratory analysis, as discussed in Section 4.0, under proper Chain-of-Custody. Samples will be relinquished to Xenco Laboratories in Midland, Texas for a normal turn-around time.

ASSI, on behalf of Goodnight Midstream, respectfully submits this Remediation Work Plan to the EMNRD for review.

APPENDIX A

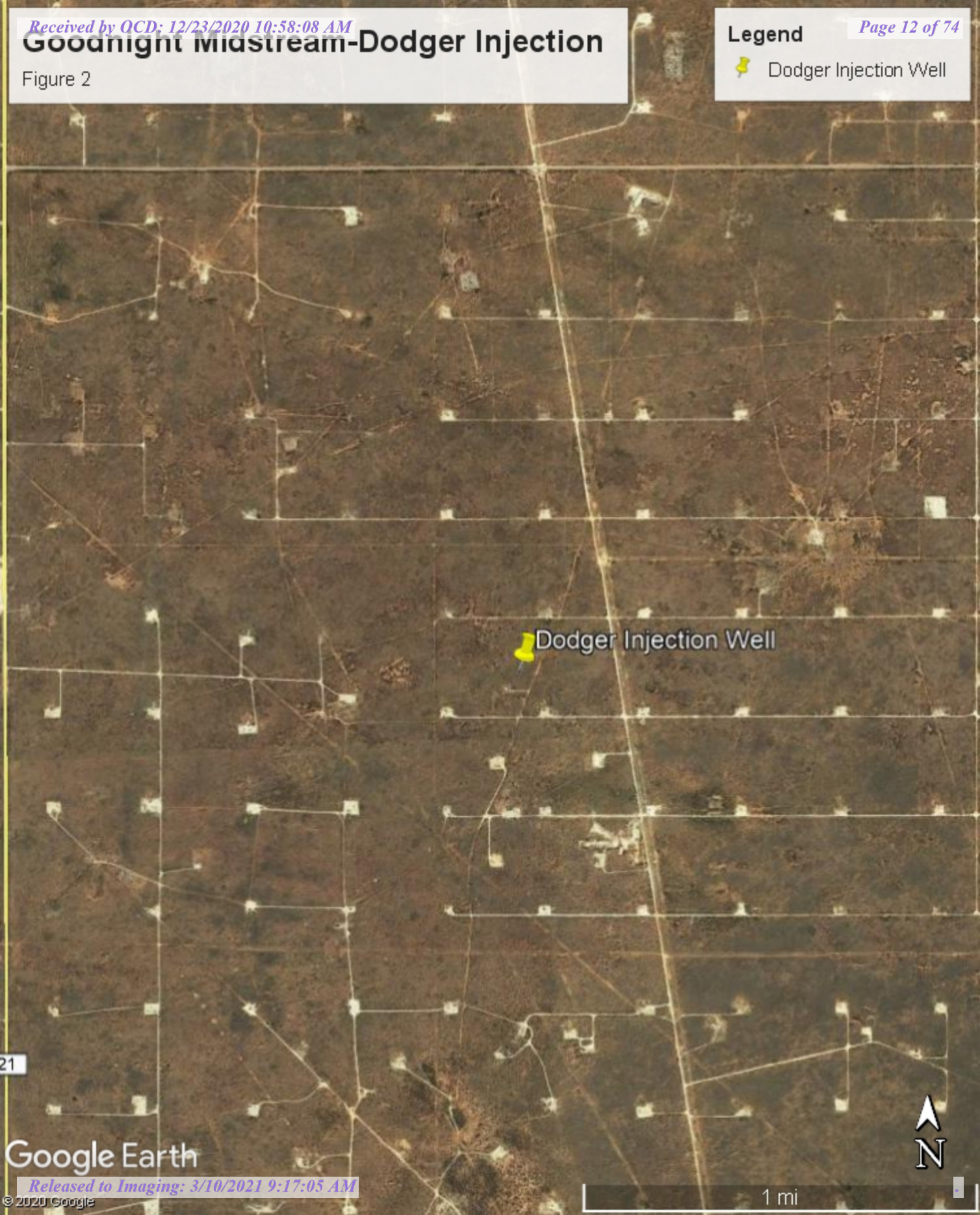
Figures

Goodnight Midstream-Dodger Injection

Figure 1

Goodnight Midstream-Dodger Injection

Figure 2

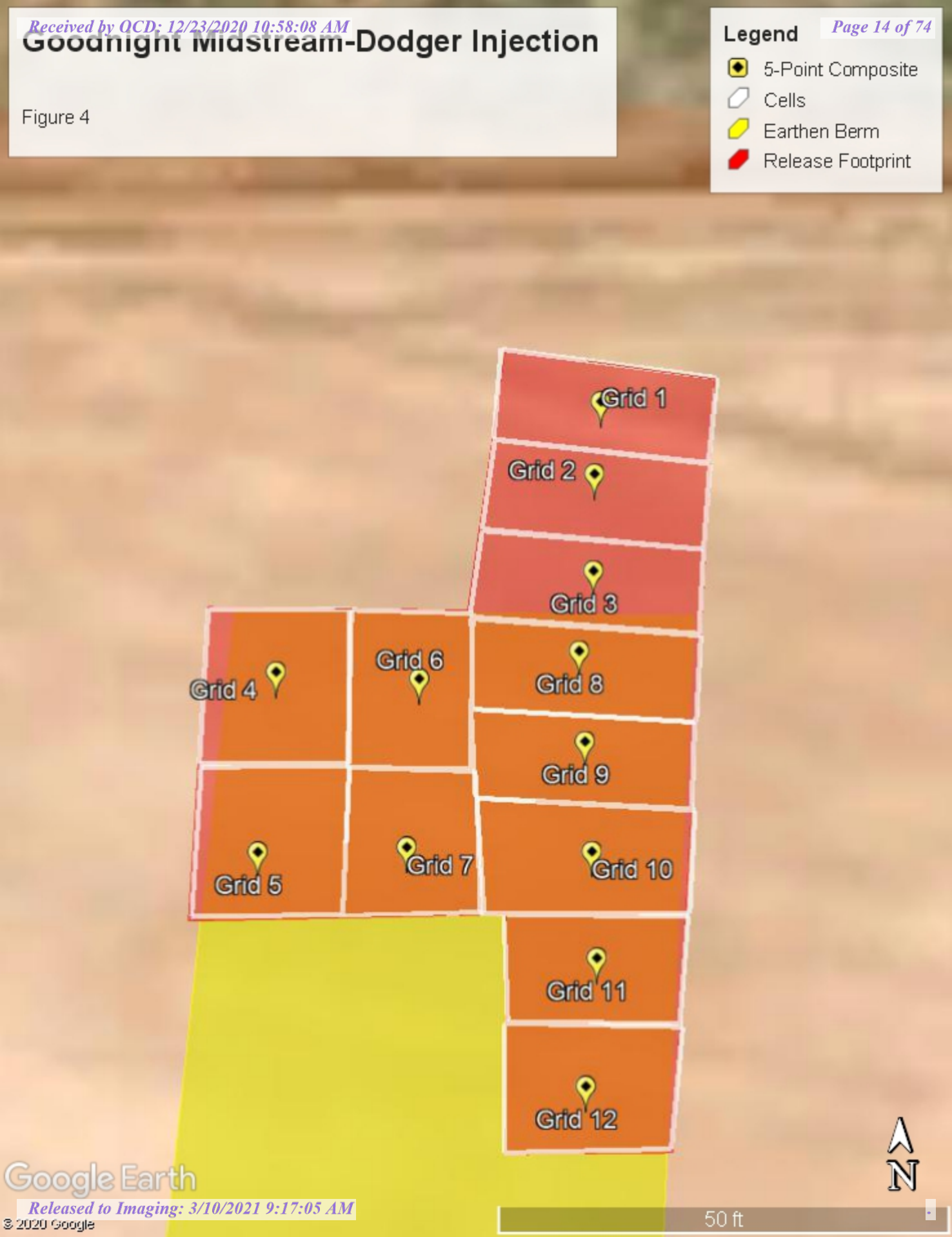


Goodnight Midstream-Dodger Injection

Figure 3

Goodnight Midstream-Dodger Injection

Figure 4

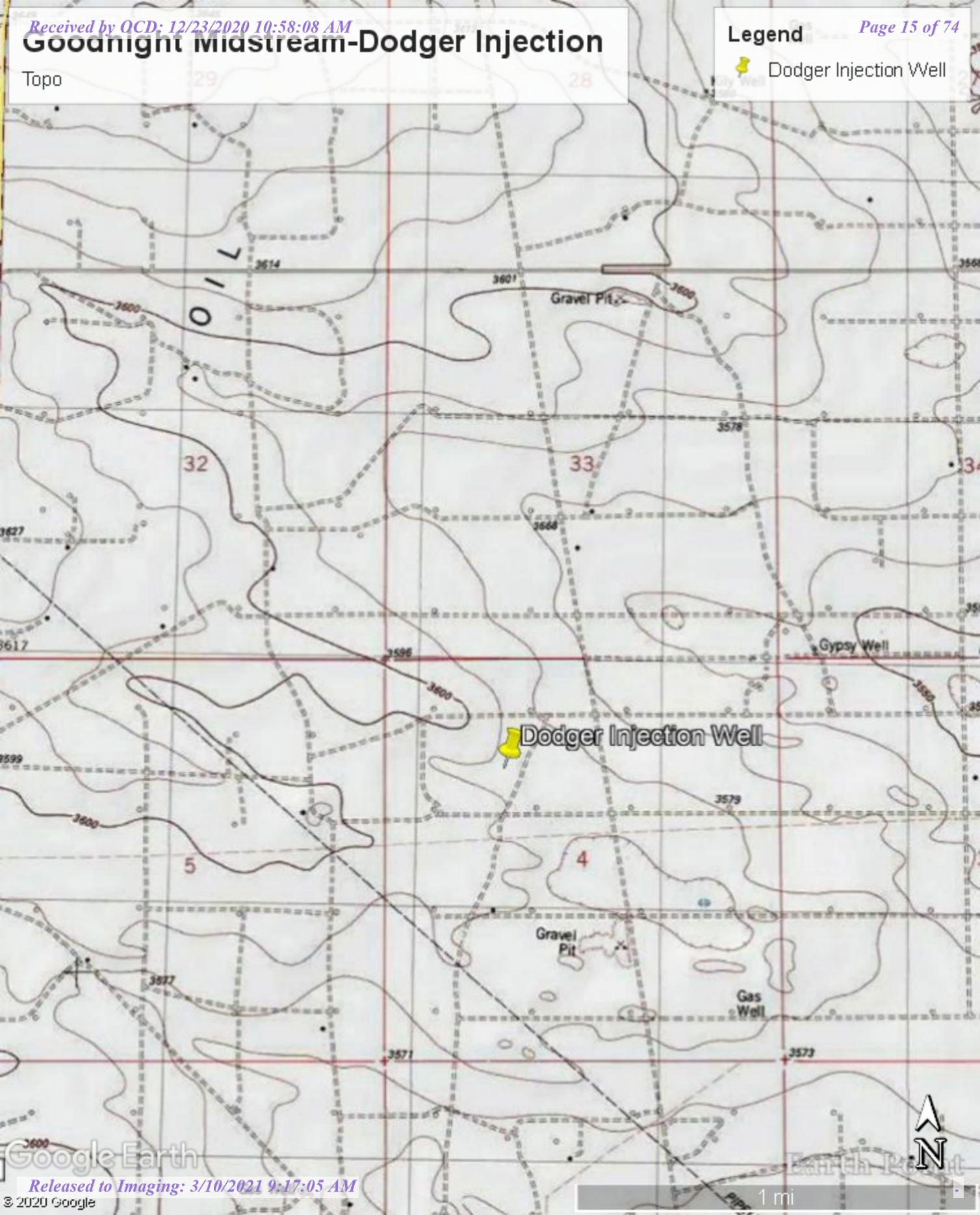


Goodnight Midstream-Dodger Injection

Topo

Legend

Dodger Injection Well



APPENDIX B

Table 1

SUMMARY OF ANALYTICAL RESULTS FOR WO#(S): 669268

Goodnight Midstream-Dodger Injection Well

Lea Co. NM

SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH (FT)	In-situ	Chloride (mg/Kg)	Gasoline Range Hydrocarbons (GRO) (mg/Kg)	Diesel Range Organics (DRO) (mg/Kg)	Motor Oil Range Hydrocarbons (MRO) (mg/Kg)	Total TPH (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	m, p-Xylenes (mg/Kg)	o-Xylene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)
Auger Hole 1	08/05/20 10:30	0 - 1	X	164	<50.0	<50.0	<50.0	<50	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.002	<0.002
Auger Hole 1	08/05/20 10:32	1 - 1.5	X	67.0	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00201	<0.00201
Auger Hole 2	08/05/20 10:37	0 - 1	X	174	<50.0	<50.0	<50.0	<50	<0.00198	<0.00198	<0.00198	<0.00396	<0.00198	<0.00198	<0.00198
Auger Hole 2	08/05/20 10:39	1 - 1.5	X	56.4	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00199	<0.00199
Auger Hole 3	08/05/20 10:44	0 - 1	X	206	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.002	<0.002
Auger Hole 3	08/05/20 10:46	1 - 1.5	X	73.0	<50.0	<50.0	<50.0	<50	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00199	<0.00199
Auger Hole 4	08/05/20 10:51	0 - 1	X	195	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.002	<0.002
Auger Hole 4	08/05/20 10:53	1 - 1.5	X	222	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00199	<0.00199
North	08/05/20 10:58	0 - 1	X	204	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00198	<0.00198	<0.00198
South	08/05/20 11:03	0 - 1	X	176	<50.0	<50.0	<50.0	<50	<0.00198	<0.00198	<0.00198	<0.00397	<0.00198	<0.00198	<0.00198
East	08/05/20 11:08	0 - 1	X	197	<50.0	<50.0	<50.0	<50	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	<0.002	<0.002
West	08/05/20 11:13	0 - 1	X	175	<50.0	<50.0	<50.0	<50	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	<0.00202	<0.00202

mg/Kg - milligrams per Kilogram

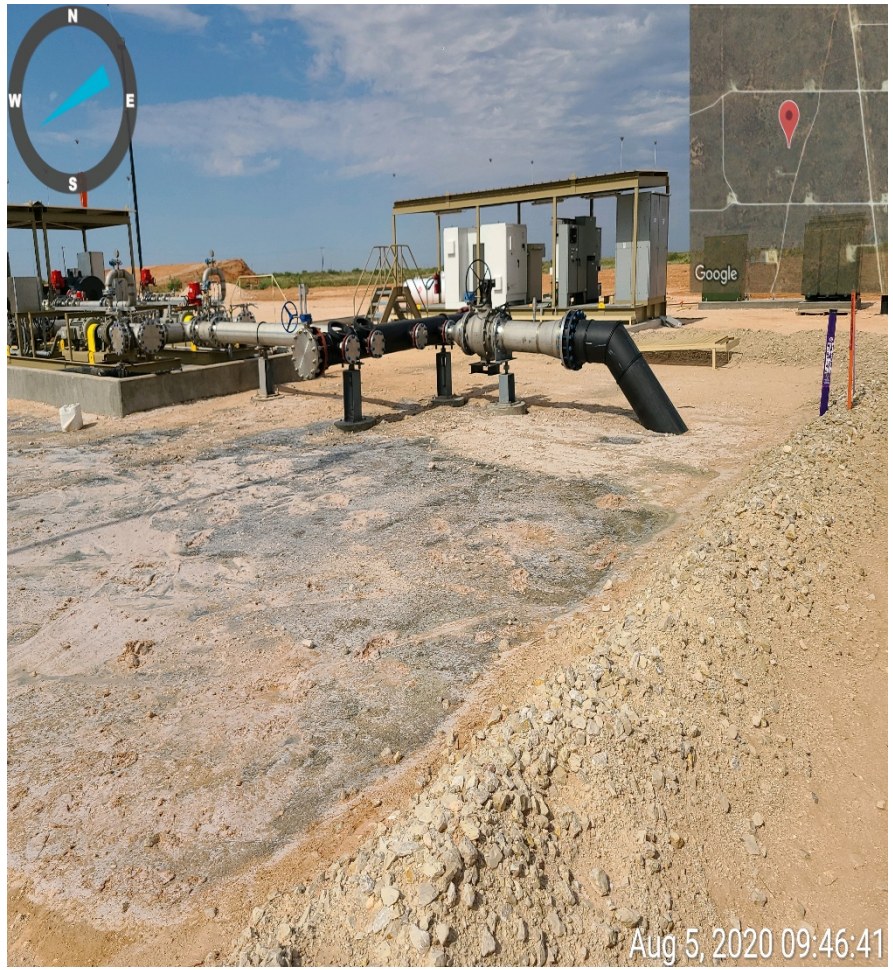
In-situ - sample collected in-place

Total TPH reported values are rounded-off to 3-significant figures using the LIMS Odd/Even Rounding Rule which is a laboratory accepted standard

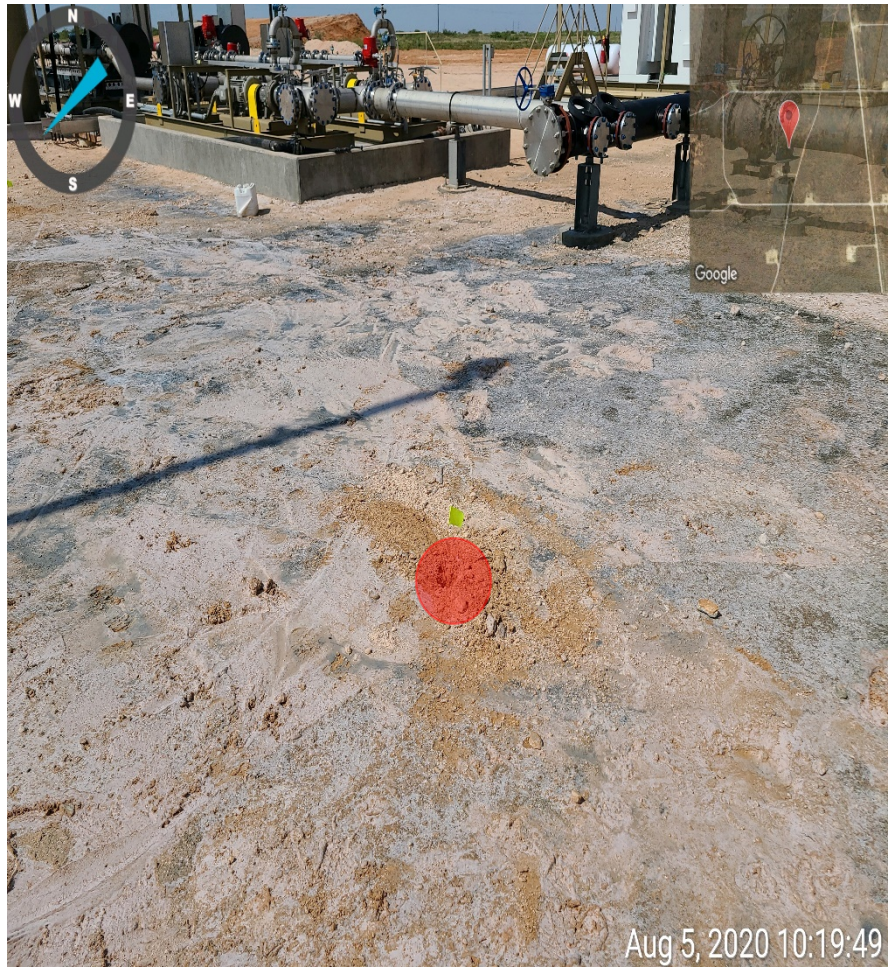
APPENDIX C

Photo Page

View Southwest – A portion of the spill flow path caused by the fluid release within the release footprint.

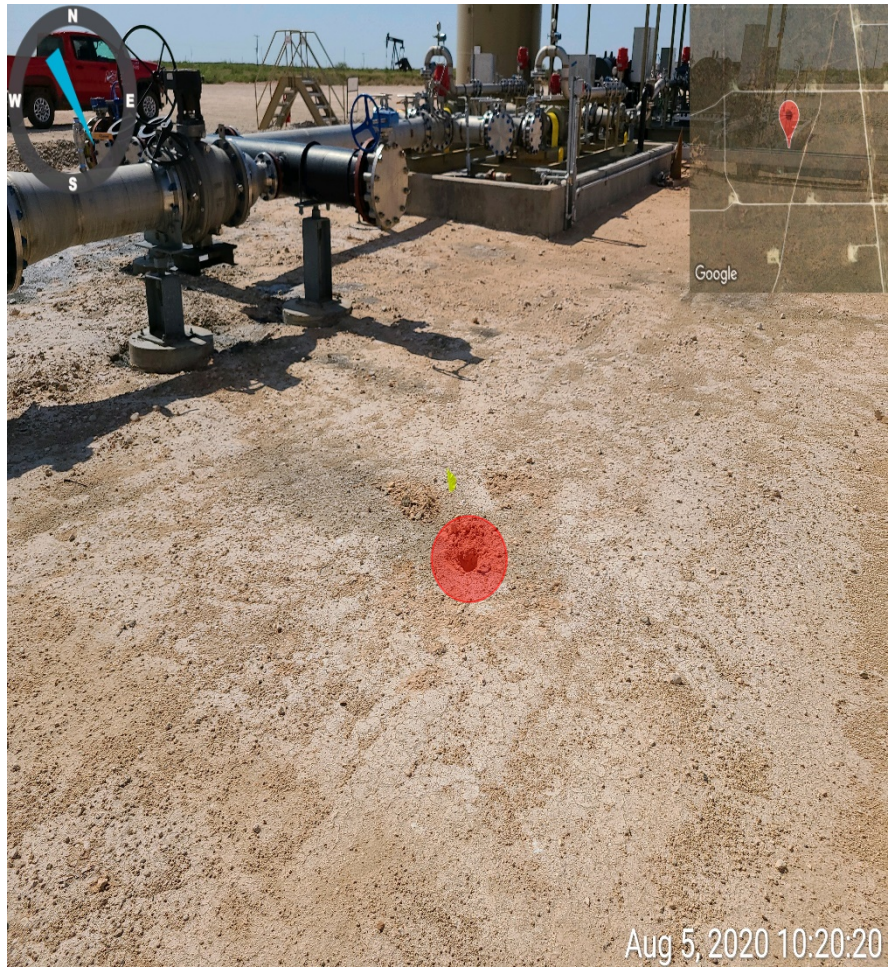


View West – A portion of the spill flow path caused by the fluid release within the release footprint.



View Southwest – Sample location Auger Hole 1 (red circle) middle of photograph.

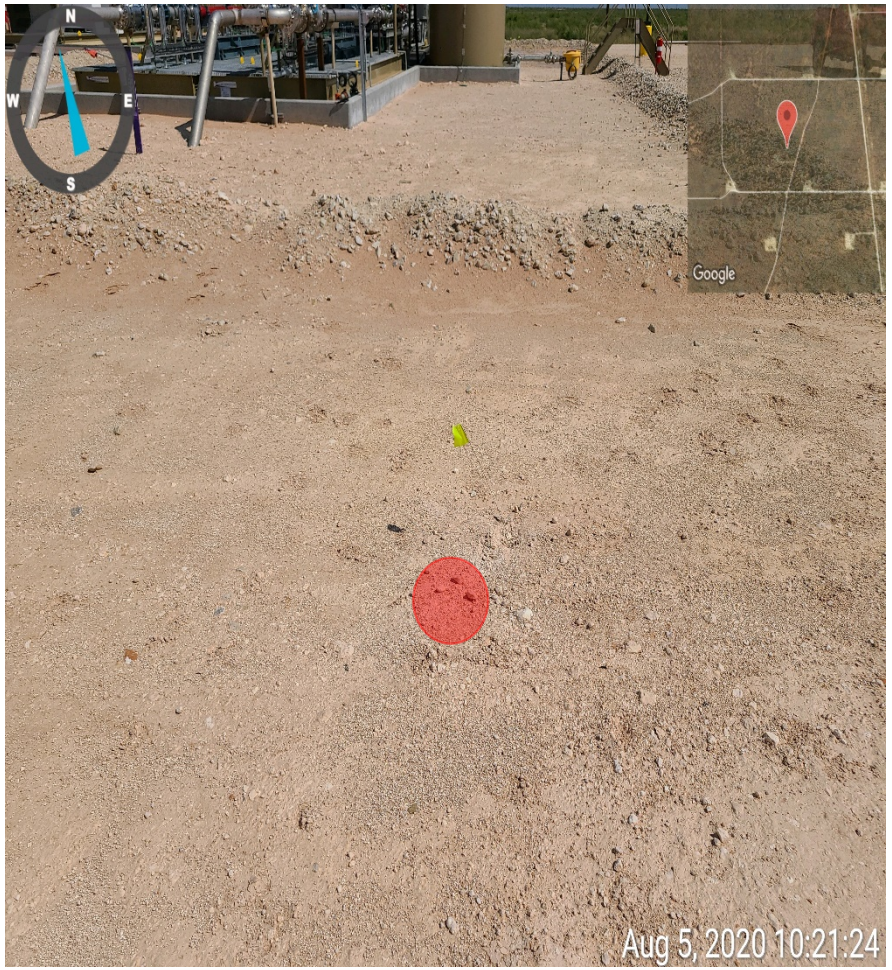
View Northwest – Sample location Auger Hole 2 (red circle) middle of photograph.



View Southeast – Sample location Auger Hole 3 (red circle) middle of photograph.

View South– Sample location Auger Hole 4 (red circle) middle of photograph.

View South – Sample location North (red circle) middle of photograph.



View North– Sample location South (red circle) middle of photograph.

View West – Sample location East (red circle) middle of photograph.

View East– Sample location West (red circle) middle of photograph.

View Northeast – Stockpiled material (surface scraped).

APPENDIX D

Laboratory Analysis

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Certificate of Analysis Summary 669268

American Safety Services, Odessa, TX

Project Name: Goodnight Midstream-Dodger Injection Well

Project Id:

Contact: Thomas Franklin

Project Location: Lea Co. NM

Date Received in Lab: Wed 08.05.2020 15:08

Report Date: 08.10.2020 13:18

Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	669268-001		669268-002		669268-003		669268-004		669268-005		669268-006	
	Field Id:	Auger Hole 1		Auger Hole 1		Auger Hole 2		Auger Hole 2		Auger Hole 3		Auger Hole 3	
	Depth:	0-1 ft		1-1.5 ft		0-1 ft		1-1.5 ft		0-1 ft		1-1.5 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	08.05.2020 10:30		08.05.2020 10:32		08.05.2020 10:37		08.05.2020 10:39		08.05.2020 10:44		08.05.2020 10:46	
BTEX by EPA 8021B	***Extracted:***	08.07.2020 17:00		08.07.2020 17:00		08.07.2020 17:00		08.07.2020 17:00		08.07.2020 17:00		08.07.2020 17:00	
	Analyzed:	08.08.2020 23:52		08.09.2020 00:12		08.09.2020 00:33		08.09.2020 00:53		08.09.2020 01:14		08.09.2020 01:34	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00201	0.00201	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Toluene		<0.00200	0.00200	<0.00201	0.00201	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Ethylbenzene		<0.00200	0.00200	<0.00201	0.00201	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
m,p-Xylenes		<0.00399	0.00399	<0.00402	0.00402	<0.00396	0.00396	<0.00398	0.00398	<0.00400	0.00400	<0.00398	0.00398
o-Xylene		<0.00200	0.00200	<0.00201	0.00201	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Total Xylenes		<0.002	0.002	<0.00201	0.00201	<0.00198	0.00198	<0.00199	0.00199	<0.002	0.002	<0.00199	0.00199
Total BTEX		<0.002	0.002	<0.00201	0.00201	<0.00198	0.00198	<0.00199	0.00199	<0.002	0.002	<0.00199	0.00199
Chloride by EPA 300	***Extracted:***	08.06.2020 13:00		08.06.2020 13:00		08.06.2020 13:00		08.06.2020 13:00		08.06.2020 13:00		08.06.2020 13:00	
	Analyzed:	08.06.2020 15:17		08.06.2020 15:33		08.06.2020 15:38		08.06.2020 15:44		08.06.2020 15:49		08.06.2020 15:54	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		164	4.99	67.0	5.00	174	4.95	56.4	4.98	206	5.03	73.0	5.04
TPH By SW8015 Mod	***Extracted:***	08.06.2020 11:00		08.06.2020 11:00		08.06.2020 11:00		08.06.2020 11:00		08.06.2020 11:00		08.06.2020 11:00	
	Analyzed:	08.06.2020 12:23		08.06.2020 13:26		08.06.2020 13:47		08.06.2020 14:08		08.06.2020 14:30		08.06.2020 14:51	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0
Diesel Range Organics (DRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0
Total TPH		<50	50	<49.8	49.8	<50	50	<49.9	49.9	<49.8	49.8	<50	50

BRL - Below Reporting Limit

Jessica Kramer

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

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Certificate of Analysis Summary 669268

American Safety Services, Odessa, TX

Project Name: Goodnight Midstream-Dodger Injection Well

Project Id:

Contact: Thomas Franklin

Project Location: Lea Co. NM

Date Received in Lab: Wed 08.05.2020 15:08

Report Date: 08.10.2020 13:18

Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	669268-007		669268-008		669268-009		669268-010		669268-011		669268-012	
	Field Id:	Auger Hole 4		Auger Hole 4		North		South		East		West	
	Depth:	0-1 ft		1-1.5 ft		0-1 ft		0-1 ft		0-1 ft		0-1 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	08.05.2020 10:51		08.05.2020 10:53		08.05.2020 10:58		08.05.2020 11:03		08.05.2020 11:08		08.05.2020 11:13	
BTEX by EPA 8021B	***Extracted:***	08.07.2020 17:00		08.07.2020 17:00		08.07.2020 17:00		08.07.2020 17:00		08.07.2020 17:00		08.07.2020 17:00	
	Analyzed:	08.09.2020 01:54		08.08.2020 23:31		08.09.2020 02:15		08.09.2020 03:37		08.09.2020 03:58		08.09.2020 04:18	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00202	0.00202
Toluene		<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00202	0.00202
Ethylbenzene		<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00202	0.00202
m,p-Xylenes		<0.00399	0.00399	<0.00398	0.00398	<0.00396	0.00396	<0.00397	0.00397	<0.00401	0.00401	<0.00403	0.00403
o-Xylene		<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00202	0.00202
Total Xylenes		<0.002	0.002	<0.00199	0.00199	<0.00198	0.00198	<0.00198	0.00198	<0.002	0.002	<0.00202	0.00202
Total BTEX		<0.002	0.002	<0.00199	0.00199	<0.00198	0.00198	<0.00198	0.00198	<0.002	0.002	<0.00202	0.00202
Chloride by EPA 300	***Extracted:***	08.06.2020 13:00		08.06.2020 13:00		08.06.2020 14:50		08.06.2020 14:50		08.06.2020 14:50		08.06.2020 14:50	
	Analyzed:	08.06.2020 15:59		08.06.2020 16:05		08.06.2020 16:24		08.06.2020 16:43		08.06.2020 16:50		08.06.2020 16:56	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		195	4.97	222	4.97	204	5.04	176	4.96	197	5.00	175	4.99
TPH By SW8015 Mod	***Extracted:***	08.06.2020 11:00		08.06.2020 11:00		08.06.2020 11:00		08.06.2020 11:00		08.06.2020 11:00		08.06.2020 11:00	
	Analyzed:	08.06.2020 15:13		08.06.2020 15:34		08.06.2020 15:55		08.06.2020 16:17		08.06.2020 17:00		08.06.2020 17:21	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0
Diesel Range Organics (DRO)		<49.9	49.9	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0	<50.0	50.0
Total TPH		<49.9	49.9	<49.9	49.9	<49.8	49.8	<50	50	<50	50	<50	50

BRL - Below Reporting Limit

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

Jessica Kramer

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Analytical Report 669268

for

American Safety Services

Project Manager: Thomas Franklin

Goodnight Midstream-Dodger Injection Well

08.10.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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08.10.2020

Project Manager: **Thomas Franklin**
American Safety Services
8715 Andrews Hwy
Odessa, TX 79765

Reference: Eurofins Xenco, LLC Report No(s): **669268**
Goodnight Midstream-Dodger Injection Well
Project Address: Lea Co. NM

Thomas Franklin:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 669268. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 669268 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 669268

American Safety Services, Odessa, TX

Goodnight Midstream-Dodger Injection Well

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Auger Hole 1	S	08.05.2020 10:30	0 - 1 ft	669268-001
Auger Hole 1	S	08.05.2020 10:32	1 - 1.5 ft	669268-002
Auger Hole 2	S	08.05.2020 10:37	0 - 1 ft	669268-003
Auger Hole 2	S	08.05.2020 10:39	1 - 1.5 ft	669268-004
Auger Hole 3	S	08.05.2020 10:44	0 - 1 ft	669268-005
Auger Hole 3	S	08.05.2020 10:46	1 - 1.5 ft	669268-006
Auger Hole 4	S	08.05.2020 10:51	0 - 1 ft	669268-007
Auger Hole 4	S	08.05.2020 10:53	1 - 1.5 ft	669268-008
North	S	08.05.2020 10:58	0 - 1 ft	669268-009
South	S	08.05.2020 11:03	0 - 1 ft	669268-010
East	S	08.05.2020 11:08	0 - 1 ft	669268-011
West	S	08.05.2020 11:13	0 - 1 ft	669268-012

CASE NARRATIVE

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Client Name: American Safety Services

Project Name: Goodnight Midstream-Dodger Injection Well

Project ID:
Work Order Number(s): *669268*

Report Date: *08.10.2020*
Date Received: *08.05.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3133955 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected. Samples affected are: 669268-012.

Lab Sample ID 669268-008 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). m,p-Xylenes recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 669268-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012.

The Laboratory Control Sample for m,p-Xylenes is within laboratory Control Limits, therefore the data was accepted.

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Certificate of Analytical Results 669268

American Safety Services, Odessa, TX

Goodnight Midstream-Dodger Injection Well

Sample Id:	**Auger Hole 1**	Matrix:	Soil	Date Received:	08.05.2020 15:08
Lab Sample Id:	669268-001	Date Collected:	08.05.2020 10:30	Sample Depth:	0 - 1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.06.2020 13:00	Basis:	Wet Weight
Seq Number:	3133823				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**164**	4.99	mg/kg	08.06.2020 15:17		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.06.2020 11:00	Basis:	Wet Weight
Seq Number:	3133887				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.06.2020 12:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.06.2020 12:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.06.2020 12:23	U	1
Total TPH	PHC635	<50	50	mg/kg	08.06.2020 12:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	08.06.2020 12:23	
o-Terphenyl	84-15-1	86	%	70-130	08.06.2020 12:23	

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Certificate of Analytical Results 669268

American Safety Services, Odessa, TX

Goodnight Midstream-Dodger Injection Well

Sample Id:	**Auger Hole 1**	Matrix:	Soil	Date Received:	08.05.2020 15:08
Lab Sample Id:	669268-001	Date Collected:	08.05.2020 10:30	Sample Depth:	0 - 1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.07.2020 17:00	Basis:	Wet Weight
Seq Number:	3133955				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.08.2020 23:52	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.08.2020 23:52	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.08.2020 23:52	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.08.2020 23:52	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.08.2020 23:52	U	1
Total Xylenes	1330-20-7	<0.002	0.002	mg/kg	08.08.2020 23:52	U	1
Total BTEX		<0.002	0.002	mg/kg	08.08.2020 23:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	08.08.2020 23:52	
4-Bromofluorobenzene	460-00-4	108	%	70-130	08.08.2020 23:52	

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Certificate of Analytical Results 669268

American Safety Services, Odessa, TX

Goodnight Midstream-Dodger Injection Well

Sample Id:	**Auger Hole 1**	Matrix:	Soil	Date Received:	08.05.2020 15:08
Lab Sample Id:	669268-002	Date Collected:	08.05.2020 10:32	Sample Depth:	1 - 1.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.06.2020 13:00	Basis:	Wet Weight
Seq Number:	3133823				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**67.0**	5.00	mg/kg	08.06.2020 15:33		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.06.2020 11:00	Basis:	Wet Weight
Seq Number:	3133887				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.06.2020 13:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.06.2020 13:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.06.2020 13:26	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.06.2020 13:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	08.06.2020 13:26	
o-Terphenyl	84-15-1	81	%	70-130	08.06.2020 13:26	

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Certificate of Analytical Results 669268

American Safety Services, Odessa, TX

Goodnight Midstream-Dodger Injection Well

Sample Id:	**Auger Hole 1**	Matrix:	Soil	Date Received:	08.05.2020 15:08
Lab Sample Id:	669268-002	Date Collected:	08.05.2020 10:32	Sample Depth:	1 - 1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.07.2020 17:00	Basis:	Wet Weight
Seq Number:	3133955				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.09.2020 00:12	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.09.2020 00:12	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.09.2020 00:12	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.09.2020 00:12	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.09.2020 00:12	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.09.2020 00:12	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.09.2020 00:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	08.09.2020 00:12	
4-Bromofluorobenzene	460-00-4	104	%	70-130	08.09.2020 00:12	

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Certificate of Analytical Results 669268

American Safety Services, Odessa, TX

Goodnight Midstream-Dodger Injection Well

Sample Id:	**Auger Hole 2**	Matrix:	Soil	Date Received:	08.05.2020 15:08
Lab Sample Id:	669268-003	Date Collected:	08.05.2020 10:37	Sample Depth:	0 - 1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.06.2020 13:00	Basis:	Wet Weight
Seq Number:	3133823				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**174**	4.95	mg/kg	08.06.2020 15:38		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.06.2020 11:00	Basis:	Wet Weight
Seq Number:	3133887				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.06.2020 13:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.06.2020 13:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.06.2020 13:47	U	1
Total TPH	PHC635	<50	50	mg/kg	08.06.2020 13:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	08.06.2020 13:47	
o-Terphenyl	84-15-1	80	%	70-130	08.06.2020 13:47	

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Certificate of Analytical Results 669268

American Safety Services, Odessa, TX

Goodnight Midstream-Dodger Injection Well

Sample Id:	**Auger Hole 2**	Matrix:	Soil	Date Received:	08.05.2020 15:08
Lab Sample Id:	669268-003	Date Collected:	08.05.2020 10:37	Sample Depth:	0 - 1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.07.2020 17:00	Basis:	Wet Weight
Seq Number:	3133955				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.09.2020 00:33	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.09.2020 00:33	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.09.2020 00:33	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	08.09.2020 00:33	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.09.2020 00:33	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.09.2020 00:33	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.09.2020 00:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	08.09.2020 00:33	
1,4-Difluorobenzene	540-36-3	115	%	70-130	08.09.2020 00:33	

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Certificate of Analytical Results 669268

American Safety Services, Odessa, TX

Goodnight Midstream-Dodger Injection Well

Sample Id:	**Auger Hole 2**	Matrix:	Soil	Date Received:	08.05.2020 15:08
Lab Sample Id:	669268-004	Date Collected:	08.05.2020 10:39	Sample Depth:	1 - 1.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.06.2020 13:00	Basis:	Wet Weight
Seq Number:	3133823				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**56.4**	4.98	mg/kg	08.06.2020 15:44		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.06.2020 11:00	Basis:	Wet Weight
Seq Number:	3133887				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.06.2020 14:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.06.2020 14:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.06.2020 14:08	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.06.2020 14:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	08.06.2020 14:08	
o-Terphenyl	84-15-1	80	%	70-130	08.06.2020 14:08	

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Certificate of Analytical Results 669268

American Safety Services, Odessa, TX

Goodnight Midstream-Dodger Injection Well

Sample Id:	**Auger Hole 2**	Matrix:	Soil	Date Received:	08.05.2020 15:08
Lab Sample Id:	669268-004	Date Collected:	08.05.2020 10:39	Sample Depth:	1 - 1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.07.2020 17:00	Basis:	Wet Weight
Seq Number:	3133955				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.09.2020 00:53	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.09.2020 00:53	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.09.2020 00:53	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.09.2020 00:53	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.09.2020 00:53	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.09.2020 00:53	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.09.2020 00:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	08.09.2020 00:53	
1,4-Difluorobenzene	540-36-3	111	%	70-130	08.09.2020 00:53	

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Certificate of Analytical Results 669268

American Safety Services, Odessa, TX

Goodnight Midstream-Dodger Injection Well

Sample Id:	**Auger Hole 3**	Matrix:	Soil	Date Received:	08.05.2020 15:08
Lab Sample Id:	669268-005	Date Collected:	08.05.2020 10:44	Sample Depth:	0 - 1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.06.2020 13:00	Basis:	Wet Weight
Seq Number:	3133823				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**206**	5.03	mg/kg	08.06.2020 15:49		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.06.2020 11:00	Basis:	Wet Weight
Seq Number:	3133887				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.06.2020 14:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.06.2020 14:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.06.2020 14:30	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.06.2020 14:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	08.06.2020 14:30	
o-Terphenyl	84-15-1	86	%	70-130	08.06.2020 14:30	

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Sample Id:	**Auger Hole 3**	Matrix:	Soil	Date Received:	08.05.2020 15:08
Lab Sample Id:	669268-005	Date Collected:	08.05.2020 10:44	Sample Depth:	0 - 1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.07.2020 17:00	Basis:	Wet Weight
Seq Number:	3133955				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.09.2020 01:14	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.09.2020 01:14	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.09.2020 01:14	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.09.2020 01:14	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.09.2020 01:14	U	1
Total Xylenes	1330-20-7	<0.002	0.002	mg/kg	08.09.2020 01:14	U	1
Total BTEX		<0.002	0.002	mg/kg	08.09.2020 01:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	08.09.2020 01:14	
1,4-Difluorobenzene	540-36-3	116	%	70-130	08.09.2020 01:14	

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Sample Id:	**Auger Hole 3**	Matrix:	Soil	Date Received:	08.05.2020 15:08
Lab Sample Id:	669268-006	Date Collected:	08.05.2020 10:46	Sample Depth:	1 - 1.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.06.2020 13:00	Basis:	Wet Weight
Seq Number:	3133823				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**73.0**	5.04	mg/kg	08.06.2020 15:54		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.06.2020 11:00	Basis:	Wet Weight
Seq Number:	3133887				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.06.2020 14:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.06.2020 14:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.06.2020 14:51	U	1
Total TPH	PHC635	<50	50	mg/kg	08.06.2020 14:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	08.06.2020 14:51	
o-Terphenyl	84-15-1	79	%	70-130	08.06.2020 14:51	

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Sample Id:	**Auger Hole 3**	Matrix:	Soil	Date Received:	08.05.2020 15:08
Lab Sample Id:	669268-006	Date Collected:	08.05.2020 10:46	Sample Depth:	1 - 1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.07.2020 17:00	Basis:	Wet Weight
Seq Number:	3133955				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.09.2020 01:34	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.09.2020 01:34	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.09.2020 01:34	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.09.2020 01:34	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.09.2020 01:34	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.09.2020 01:34	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.09.2020 01:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	08.09.2020 01:34	
1,4-Difluorobenzene	540-36-3	113	%	70-130	08.09.2020 01:34	

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Sample Id:	**Auger Hole 4**	Matrix:	Soil	Date Received:	08.05.2020 15:08
Lab Sample Id:	669268-007	Date Collected:	08.05.2020 10:51	Sample Depth:	0 - 1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.06.2020 13:00	Basis:	Wet Weight
Seq Number:	3133823				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**195**	4.97	mg/kg	08.06.2020 15:59		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.06.2020 11:00	Basis:	Wet Weight
Seq Number:	3133887				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.06.2020 15:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.06.2020 15:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.06.2020 15:13	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.06.2020 15:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	08.06.2020 15:13	
o-Terphenyl	84-15-1	78	%	70-130	08.06.2020 15:13	

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Sample Id:	**Auger Hole 4**	Matrix:	Soil	Date Received:	08.05.2020 15:08
Lab Sample Id:	669268-007	Date Collected:	08.05.2020 10:51	Sample Depth:	0 - 1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.07.2020 17:00	Basis:	Wet Weight
Seq Number:	3133955				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.09.2020 01:54	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.09.2020 01:54	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.09.2020 01:54	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.09.2020 01:54	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.09.2020 01:54	U	1
Total Xylenes	1330-20-7	<0.002	0.002	mg/kg	08.09.2020 01:54	U	1
Total BTEX		<0.002	0.002	mg/kg	08.09.2020 01:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	08.09.2020 01:54	
4-Bromofluorobenzene	460-00-4	111	%	70-130	08.09.2020 01:54	

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Sample Id:	**Auger Hole 4**	Matrix:	Soil	Date Received:	08.05.2020 15:08
Lab Sample Id:	669268-008	Date Collected:	08.05.2020 10:53	Sample Depth:	1 - 1.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.06.2020 13:00	Basis:	Wet Weight
Seq Number:	3133823				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**222**	4.97	mg/kg	08.06.2020 16:05		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.06.2020 11:00	Basis:	Wet Weight
Seq Number:	3133887				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.06.2020 15:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.06.2020 15:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.06.2020 15:34	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.06.2020 15:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	08.06.2020 15:34	
o-Terphenyl	84-15-1	79	%	70-130	08.06.2020 15:34	

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Sample Id:	**Auger Hole 4**	Matrix:	Soil	Date Received:	08.05.2020 15:08
Lab Sample Id:	669268-008	Date Collected:	08.05.2020 10:53	Sample Depth:	1 - 1.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.07.2020 17:00	Basis:	Wet Weight
Seq Number:	3133955				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.08.2020 23:31	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.08.2020 23:31	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.08.2020 23:31	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.08.2020 23:31	UX	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.08.2020 23:31	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.08.2020 23:31	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.08.2020 23:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	08.08.2020 23:31	
1,4-Difluorobenzene	540-36-3	110	%	70-130	08.08.2020 23:31	

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Goodnight Midstream-Dodger Injection Well

Sample Id: **North** Matrix: Soil Date Received:08.05.2020 15:08

Lab Sample Id: 669268-009 Date Collected: 08.05.2020 10:58 Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.06.2020 14:50 Basis: Wet Weight

Seq Number: 3133831

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**204**	5.04	mg/kg	08.06.2020 16:24		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.06.2020 11:00 Basis: Wet Weight

Seq Number: 3133887

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.06.2020 15:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.06.2020 15:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.06.2020 15:55	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.06.2020 15:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	08.06.2020 15:55	
o-Terphenyl	84-15-1	84	%	70-130	08.06.2020 15:55	

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Goodnight Midstream-Dodger Injection Well

Sample Id:	**North**	Matrix:	Soil	Date Received:	08.05.2020 15:08
Lab Sample Id:	669268-009	Date Collected:	08.05.2020 10:58	Sample Depth:	0 - 1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.07.2020 17:00	Basis:	Wet Weight
Seq Number:	3133955				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.09.2020 02:15	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.09.2020 02:15	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.09.2020 02:15	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	08.09.2020 02:15	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.09.2020 02:15	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.09.2020 02:15	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.09.2020 02:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	114	%	70-130	08.09.2020 02:15	
4-Bromofluorobenzene	460-00-4	111	%	70-130	08.09.2020 02:15	

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Sample Id:	**South**	Matrix:	Soil	Date Received:	08.05.2020 15:08
Lab Sample Id:	669268-010	Date Collected:	08.05.2020 11:03	Sample Depth:	0 - 1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.06.2020 14:50	Basis:	Wet Weight
Seq Number:	3133831				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**176**	4.96	mg/kg	08.06.2020 16:43		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.06.2020 11:00	Basis:	Wet Weight
Seq Number:	3133887				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.06.2020 16:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.06.2020 16:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.06.2020 16:17	U	1
Total TPH	PHC635	<50	50	mg/kg	08.06.2020 16:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	08.06.2020 16:17	
o-Terphenyl	84-15-1	85	%	70-130	08.06.2020 16:17	

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Sample Id:	**South**	Matrix:	Soil	Date Received:	08.05.2020 15:08
Lab Sample Id:	669268-010	Date Collected:	08.05.2020 11:03	Sample Depth:	0 - 1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.07.2020 17:00	Basis:	Wet Weight
Seq Number:	3133955				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.09.2020 03:37	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.09.2020 03:37	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.09.2020 03:37	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	08.09.2020 03:37	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.09.2020 03:37	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.09.2020 03:37	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.09.2020 03:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	08.09.2020 03:37	
4-Bromofluorobenzene	460-00-4	117	%	70-130	08.09.2020 03:37	

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Sample Id:	**East**	Matrix:	Soil	Date Received:	08.05.2020 15:08
Lab Sample Id:	669268-011	Date Collected:	08.05.2020 11:08	Sample Depth:	0 - 1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.06.2020 14:50	Basis:	Wet Weight
Seq Number:	3133831				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**197**	5.00	mg/kg	08.06.2020 16:50		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.06.2020 11:00	Basis:	Wet Weight
Seq Number:	3133887				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.06.2020 17:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.06.2020 17:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.06.2020 17:00	U	1
Total TPH	PHC635	<50	50	mg/kg	08.06.2020 17:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	08.06.2020 17:00	
o-Terphenyl	84-15-1	85	%	70-130	08.06.2020 17:00	

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Sample Id:	**East**	Matrix:	Soil	Date Received:	08.05.2020 15:08
Lab Sample Id:	669268-011	Date Collected:	08.05.2020 11:08	Sample Depth:	0 - 1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.07.2020 17:00	Basis:	Wet Weight
Seq Number:	3133955				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.09.2020 03:58	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.09.2020 03:58	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.09.2020 03:58	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	08.09.2020 03:58	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.09.2020 03:58	U	1
Total Xylenes	1330-20-7	<0.002	0.002	mg/kg	08.09.2020 03:58	U	1
Total BTEX		<0.002	0.002	mg/kg	08.09.2020 03:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	08.09.2020 03:58	
1,4-Difluorobenzene	540-36-3	112	%	70-130	08.09.2020 03:58	

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Sample Id:	**West**	Matrix:	Soil	Date Received:	08.05.2020 15:08
Lab Sample Id:	669268-012	Date Collected:	08.05.2020 11:13	Sample Depth:	0 - 1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.06.2020 14:50	Basis:	Wet Weight
Seq Number:	3133831				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**175**	4.99	mg/kg	08.06.2020 16:56		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.06.2020 11:00	Basis:	Wet Weight
Seq Number:	3133887				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.06.2020 17:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.06.2020 17:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.06.2020 17:21	U	1
Total TPH	PHC635	<50	50	mg/kg	08.06.2020 17:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	08.06.2020 17:21	
o-Terphenyl	84-15-1	85	%	70-130	08.06.2020 17:21	

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Certificate of Analytical Results 669268

American Safety Services, Odessa, TX

Goodnight Midstream-Dodger Injection Well

Sample Id:	**West**	Matrix:	Soil	Date Received:	08.05.2020 15:08
Lab Sample Id:	669268-012	Date Collected:	08.05.2020 11:13	Sample Depth:	0 - 1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.07.2020 17:00	Basis:	Wet Weight
Seq Number:	3133955				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	08.09.2020 04:18	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	08.09.2020 04:18	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	08.09.2020 04:18	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	08.09.2020 04:18	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	08.09.2020 04:18	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	08.09.2020 04:18	U	1
Total BTEX		<0.00202	0.00202	mg/kg	08.09.2020 04:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	131	%	70-130	08.09.2020 04:18	**
1,4-Difluorobenzene	540-36-3	106	%	70-130	08.09.2020 04:18	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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

QC Summary 669268

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American Safety Services

Goodnight Midstream-Dodger Injection Well

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133823 — Matrix: Solid — Date Prep: 08.06.2020
MB Sample Id: 7708862-1-BLK — LCS Sample Id: 7708862-1-BKS — LCSD Sample Id: 7708862-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	260	104	264	106	90-110	2	20	mg/kg	08.06.2020 13:32	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133831 — Matrix: Solid — Date Prep: 08.06.2020
MB Sample Id: 7708872-1-BLK — LCS Sample Id: 7708872-1-BKS — LCSD Sample Id: 7708872-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	249	100	250	100	90-110	0	20	mg/kg	08.06.2020 16:12	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133823 — Matrix: Soil — Date Prep: 08.06.2020
Parent Sample Id: 669110-003 — MS Sample Id: 669110-003 S — MSD Sample Id: 669110-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	50.9	250	323	109	320	108	90-110	1	20	mg/kg	08.06.2020 13:48	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133823 — Matrix: Soil — Date Prep: 08.06.2020
Parent Sample Id: 669248-003 — MS Sample Id: 669248-003 S — MSD Sample Id: 669248-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	582	249	835	102	833	101	90-110	0	20	mg/kg	08.06.2020 15:01	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133831 — Matrix: Soil — Date Prep: 08.06.2020
Parent Sample Id: 669268-009 — MS Sample Id: 669268-009 S — MSD Sample Id: 669268-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	204	252	478	109	469	105	90-110	2	20	mg/kg	08.06.2020 16:31	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133831 — Matrix: Soil — Date Prep: 08.06.2020
Parent Sample Id: 669299-003 — MS Sample Id: 669299-003 S — MSD Sample Id: 669299-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	731	2530	3430	107	3400	105	90-110	1	20	mg/kg	08.06.2020 18:15	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 669268

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American Safety Services

Goodnight Midstream-Dodger Injection Well

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3133887 — Matrix: Solid — Date Prep: 08.06.2020
MB Sample Id: 7708923-1-BLK — LCS Sample Id: 7708923-1-BKS — LCSD Sample Id: 7708923-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	841	84	813	81	70-130	3	20	mg/kg	08.06.2020 11:40	
Diesel Range Organics (DRO)	<50.0	1000	858	86	837	84	70-130	2	20	mg/kg	08.06.2020 11:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	91		94		91		70-130	%	08.06.2020 11:40
o-Terphenyl	91		95		91		70-130	%	08.06.2020 11:40

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3133887 — Matrix: Solid — Date Prep: 08.06.2020
MB Sample Id: 7708923-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.06.2020 11:19	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3133887 — Matrix: Soil — Date Prep: 08.06.2020
Parent Sample Id: 669268-001 — MS Sample Id: 669268-001 S — MSD Sample Id: 669268-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	808	81	818	82	70-130	1	20	mg/kg	08.06.2020 12:44	
Diesel Range Organics (DRO)	<49.9	998	833	83	846	85	70-130	2	20	mg/kg	08.06.2020 12:44	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	87		89		70-130	%	08.06.2020 12:44
o-Terphenyl	85		88		70-130	%	08.06.2020 12:44

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3133955 — Matrix: Solid — Date Prep: 08.07.2020
MB Sample Id: 7709022-1-BLK — LCS Sample Id: 7709022-1-BKS — LCSD Sample Id: 7709022-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0868	87	0.0912	91	70-130	5	35	mg/kg	08.08.2020 20:49	
Toluene	<0.00200	0.100	0.0886	89	0.0904	90	70-130	2	35	mg/kg	08.08.2020 20:49	
Ethylbenzene	<0.00200	0.100	0.0904	90	0.0910	91	70-130	1	35	mg/kg	08.08.2020 20:49	
m,p-Xylenes	<0.00400	0.200	0.181	91	0.181	91	70-130	0	35	mg/kg	08.08.2020 20:49	
o-Xylene	<0.00200	0.100	0.0918	92	0.0919	92	70-130	0	35	mg/kg	08.08.2020 20:49	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		98		99		70-130	%	08.08.2020 20:49
4-Bromofluorobenzene	111		104		103		70-130	%	08.08.2020 20:49

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

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

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

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QC Summary 669268

American Safety Services

Goodnight Midstream-Dodger Injection Well

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A

Seq Number: 3133955 Matrix: Soil Date Prep: 08.07.2020

Parent Sample Id: 669268-008 MS Sample Id: 669268-008 S MSD Sample Id: 669268-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0743	75	0.0728	73	70-130	2	35	mg/kg	08.08.2020 21:30	
Toluene	<0.00199	0.0996	0.0723	73	0.0703	70	70-130	3	35	mg/kg	08.08.2020 21:30	
Ethylbenzene	<0.00199	0.0996	0.0723	73	0.0697	70	70-130	4	35	mg/kg	08.08.2020 21:30	
m,p-Xylenes	<0.00398	0.199	0.144	72	0.138	69	70-130	4	35	mg/kg	08.08.2020 21:30	X
o-Xylene	<0.00199	0.0996	0.0729	73	0.0699	70	70-130	4	35	mg/kg	08.08.2020 21:30	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		100		70-130	%	08.08.2020 21:30
4-Bromofluorobenzene	106		100		70-130	%	08.08.2020 21:30

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

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

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

XENCO LABORATORIES

Setting the Standard since 1990

CHAIN OF CUSTODY

Page 1 Of 2

Stafford,Texas (281-240-4200) | **San Antonio, Texas (210-509-3334)** | **Phoenix, Arizona (480-355-0900)**

Dallas Texas (214-902-0300) | **Midland, Texas (432-704-5251)**

www.xenco.com

Xenco Quote # | **Xenco Job #** 1092108

Client / Reporting Information

Company Name / Branch: American Safety Services Inc.

Company Address: 8715 Andrews Hwy, Odessa Tx 79765

Email: tfranklin@americansafety.net; mdial@americansafety.net

Phone No: 432-557-9868; 432-557-6195

Project Contact: Thomas Franklin

Samplers's Name Michael Dial

Project Information

Project Name/Number: Goodnight Midstream-Dodger Injection Well

Project Location: Lea Co. NM

Invoice To: Albert Ochoa, albert.ochoa@goodnightmidstream.com

PO Number:

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW =Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW =Ocean/Sea Water
WI = Wipe
O = Oil
WW= Waste Water
A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Analytical Information: TPH 8015M	Chloride EPA 300.0	BTEX 8021B								Field Comments
1	Auger Hole 1	0-1'	8/5/2020	1030	S	1									X	X	X								
2	Auger Hole 1	1-1.5'	8/5/2020	1032	S	1									X	X	X								
3	Auger Hole 2	0-1'	8/5/2020	1037	S	1									X	X	X								
4	Auger Hole 2	1-1.5'	8/5/2020	1039	S	1									X	X	X								
5	Auger Hole 3	0-1'	8/5/2020	1044	S	1									X	X	X								
6	Auger Hole 3	1-1.5'	8/5/2020	1046	S	1									X	X	X								
7	Auger Hole 4	0-1'	8/5/2020	1051	S	1									X	X	X								
8	Auger Hole 4	1-1.5'	8/5/2020	1053	S	1									X	X	X								
9	North	0-1'	8/5/2020	1058	S	1									X	X	X								
10	South	0-1'	8/5/2020	1103	S	1									X	X	X								

Turnaround Time (Business days)

- [ ] Same Day TAT
- [ ] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [x] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

Notes:

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		8/5/20 1500	1510	2		2
	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3			3	4		4
	Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice / Cooler Temp. / Thermo. Corr. Factor
5			5			X 2.6/1.9 -0.4

Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such loses are due to circumstances beyond the control of Xenco. A minimum charge of $75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

XENCO LABORATORIES

Setting the Standard since 1990

CHAIN OF CUSTODY

Page 2 Of 2

Stafford,Texas (281-240-4200)
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Midland, Texas (432-704-5251)
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www.xenco.com

Xenco Quote # | **Xenco Job #** 1069268

Client / Reporting Information

Company Name / Branch: American Safety Services Inc.
Company Address: 8715 Andrews Hwy, Odessa Tx 79765
Email: tfranklin@americansafety.net; mdial@americansafety.net
Phone No: 432-557-9868; 432-557-6195
Project Contact: Thomas Franklin
Samplers's Name Michael Dial

Project Information

Project Name/Number: Goodnight Midstream-Dodger Injection Well
Project Location: Lea Co. NM
Invoice To:
PO Number:

Analytical Information

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW =Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW =Ocean/Sea Water
WI = Wipe
O = Oil
WW= Waste Water
A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	TPH 8015M	Chloride EPA 300.0	BTEX 8021B								Field Comments
1	East	0-1'	8/5/2020	1108	S	1									X	X	X								
2	West	0-1'	8/5/2020	1113	S	1									X	X	X								
3	[redacted]																								
4																									
5																									
6																									
7																									
8																									
9																									
10																									

Turnaround Time (Business days)

- [ ] Same Day TAT
- [ ] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [x] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

Notes:

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished by Sampler: 1	Date Time: 1510 8/5/2020	Received By: 1	Relinquished By: 2	Date Time:	Received By: 2
Relinquished by: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	Preserved where applicable	On Ice: X; Cooler Temp. 2.3/1.9; Thermo. Corr. Factor

Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such loses are due to circumstances beyond the control of Xenco. A minimum charge of $75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: American Safety Services

Date/ Time Received: 08.05.2020 03.08.00 PM

Work Order #: 669268

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	1.9	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	BTEX was in bulk container
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**N/A**	
#18 Water VOC samples have zero headspace?	**N/A**	

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 08.05.2020
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 08.06.2020
Jessica Kramer

APPENDIX E

C-141

APPENDIX F

Manifests

SUNDANCE SERVICES WEST, INC.

P.O. Box 1737 Eunice, New Mexico 88231
Business: (575) 394-2511 • Disposal: (575) 390-7842

TICKET No. 579810

LEASE OPERATOR/SHIPPER/COMPANY: Goodnit midstream.	DATE: 09-09-20
LEASE NAME: dodger Facility	TIME: 11:18 AM/PM
RIG NAME & NUMBER:	VEHICLE NO: 834
TRANSPORTER COMPANY: Amarico safety	PHONE:
GENERATOR COMPANY MAN'S NAME: Floyd ochoa	PHONE: 325-574-3442

CHARGE TO: Goodnight

TYPE OF MATERIAL

[ ] Tank Bottoms [ ] Drilling Fluids [ ] Rinsate [ ] BS&W Content: _____

[ ] Solids [X] Contaminated Soil [ ] Jet Out

Description: ad

VOLUME OF MATERIAL

[ ] BBLS. _____ : [X] YARD 5 : [ ] _____

RRC or API # C-133#

STICKERS, CODES, NUMBERS, ETC.

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY *that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER: _____
(SIGNATURE)

FACILITY REPRESENTATIVE: _____
(SIGNATURE)

White - Sundance Canary - Sundance Acct #1 Pink - Transporter

Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c

APPENDIX G

Groundwater

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

Form C-101
Revised July 18, 2013

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address	2. OGRID Number
Goodnight Midstream Permian, LLC 5910 N Central Expressway, Suite 850, Dallas, TX 75206	372311
	3. API Number 30-025-46397

4. Property Code	5. Property Name	6. Well No.
326132	ROBINSON STATE SWD ~~ROBINSON SWD~~	1

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
F	4	22S	36E		1868	NORTH	1564	WEST	LEA

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
-	-	-	-		-	-	-	-	-

9. Pool Information

Pool Name	Pool Code
SWD; GLORIETA	96106

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
N	S	R	Private Surface/ State Minerals	3,589'
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
No	6,600'	Glorieta	TBD	Upon Approval

Depth to Ground water	Distance from nearest fresh water well	Distance to nearest surface water
140' (CP-01469-Pod 1)	3,872 (CP-00727)	20,898' (Northeast)

☒ **We will be using a closed-loop system in lieu of lined pits**

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	12-1/4"	9-5/8"	40 lb/ft	1553'	515	Surface
Production	8-3/4"	7"	26 lb/ft	6,600'	1,000	Surface
Tubing	-	4-1/2"	20 lb/ft	5,730'	N/A	N/A

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular, Pipe & Blind/Shear Rams	3,000 psi	3,000 psi	Hydril, Cameron or Equivalent

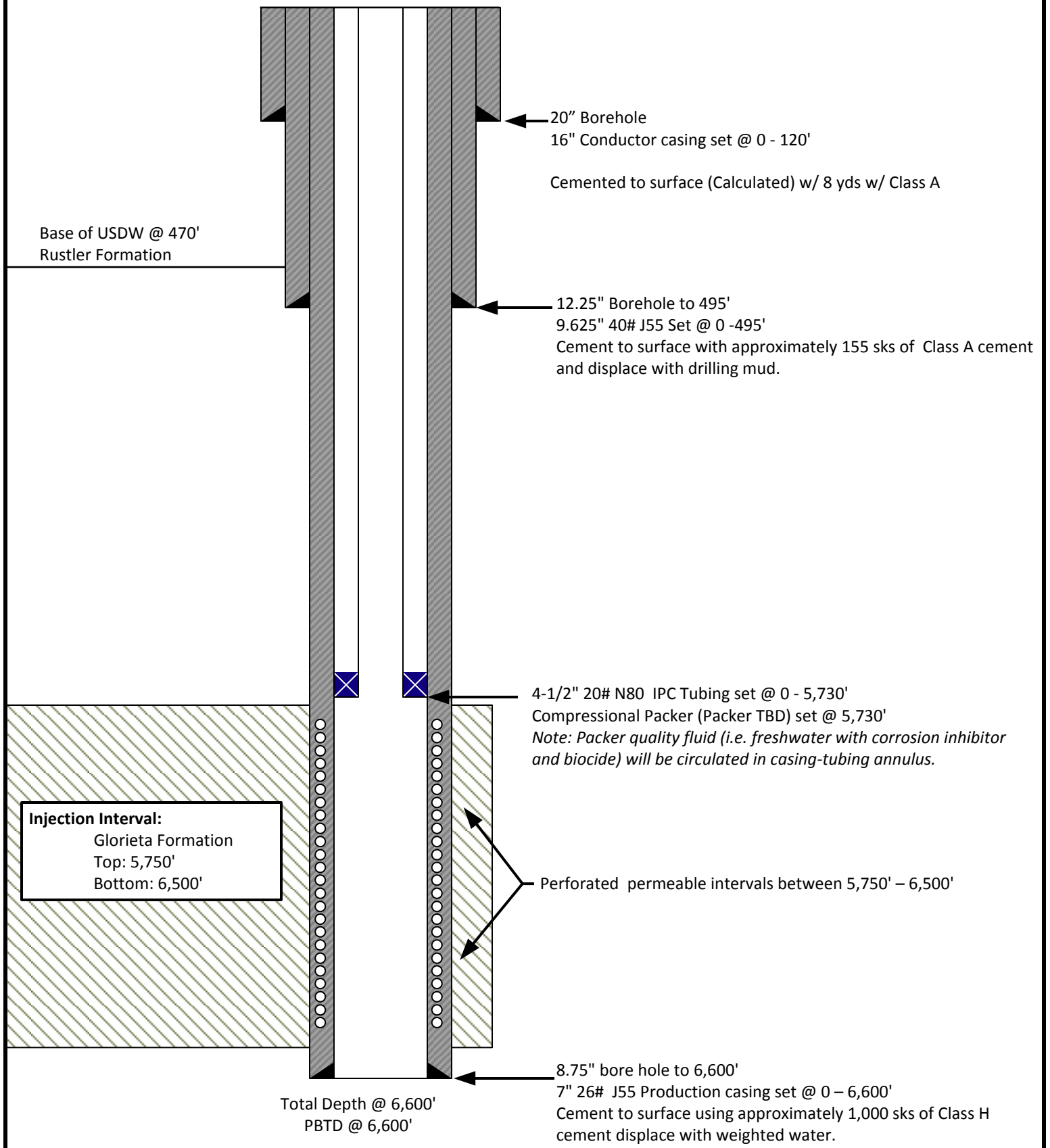
23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐, if applicable.
Signature: Nathan Alleman

Printed name: Nate Alleman
Title: Regulatory Specialist - ALL Consulting
E-mail Address: nalleman@all-llc.com
Date: 9/19/2019 Phone: 918-237-0559

OIL CONSERVATION DIVISION

Approved By:

Title: **Petroleum Engineer**
Approved Date: **09/30/2019** Expiration Date: **09/30/2021**
Conditions of Approval Attached **SEE ATTACHED**



NOT TO SCALE

Note: Listed depths and cement volumes are approximates based on available information.

Prepared by: ALL CONSULTING	Drawn by: Joshua Ticknor	Goodnight Midstream Permian, LLC Robinson SWD 1
	Project Manager: Nathan Alleman	Section 4, Twp 22S, Rng 36E 1,868' FNL & 1,564' FWL Lea County, NM
	Date: 09/19/2019	

Goodnight Midstream Permian LLC

Robinson SWD 1
1,868' FNL & 1,564' FWL
Section 4 , Twp 22S, Rng 36E
Lea County, New Mexico

Proposed Drilling Plan for New SWD

1. **Geologic Information:** Permian geologic formations

The Permian Glorieta Formation consist of interbedded carbonates rocks including dolomites, siltstones, and sands. Several thick sections of porous and permeable intervals are present within this formation in the area. Geologic information and depths of formation tops were obtained from surrounding wells within the area of interest. Total depth is 100 feet below the base of the Glorieta Formation. The base of the Rustler Formation and top of the Salado Formation is at approximately 470 feet plus 25 feet equals 495 feet to set bottom of the surface casing to protect the deepest underground sources of drinking water (USDWs).

Estimated Formation Top Depths:

Rustler	270'
Salado	470'
Grayburg	3,945'
San Andres	4,405'
Glorieta	5,750'
Total Depth	6,600'

2. **Proposed Drilling Plan:**

a. Move in equipment, excavate cellar and install tinhorn, and then drill conductor hole and set and cement in conductor casing.
b. Mobilize drilling rig and rig up drilling rig and associated equipment onsite. Set up H_2S wind direction indicators and monitors; brief all personnel on Emergency Evacuation Routes and ALL Consulting Site Health and Safety Plan.
c. Everyone onsite will have stop work authority.
d. Perform Job Safety Analysis (JSA) meetings before each drilling shift change and prior to any subcontractor performing any task on the location. All equipment should be inspected daily and repaired or replaced as required.
e. Drilling operations commence.
f. Have mud logger monitoring returns. All drill cuttings and waste hauled to specified waste facility.
g. After drilling the surface hole and setting and cementing the casing; if hydrogen sulfide (H_2S) levels are detected greater than 10ppm, implement H_2S Plan by ceasing operations, shut in well, employ H_2S safety trailer and personnel safety devices, install flare line, etc. – refer to plan.
h. Proper secondary containment needs to be in place. Spills need to be cleaned up immediately. Repair or otherwise correct the situation within 48 hours before resuming operations. Notify Oil Conservation Division (OCD) within 24 hours. Remediation started as soon as possible if required. Operator shall comply with 19.15.29 NMAC and 19.15.30 NMAC, as appropriate.

Proposed Robinson SWD 1 Drilling

i. Sundry forms need to be completed and filed as required by OCD.

3. **Proposed Casing Program:** Casing designed as follows:

STRING	HOLE SZ	DEPTH	CSG SZ	COND	WT/GRD	CLLPS/BRS	TNSN
						(Minimum Safety Factors)	
Conductor	20"	0-120'	16.0"	n/a	n/a	n/a	n/a
Surface	12.25"	0-495'	9.625"	New	40# J55	1.125/1.1	1.8
Production	8.75"	0-6,600'	7.0"	New	26# J55	1.125/1.1	1.8
Tubing	NA	0-5,730'	4.5''	New	20# N80 IPC	1.125/1.1	1.8

Notes:

- ✓ A deviation survey will be conducted and submitted with the Well Completion Report (Form C-105)
- ✓ While running all casing strings, the pipe will be kept a minimum of 1/3 full at all times to avoid approaching the collapse pressure of casing.
- ✓ Based on well completions and geophysical logs on adjacent wells, 7.0" casing shoe is expected to be set at 6,600'. Similarly, total depth will be approximately 6,600' as determined by open hole geophysical logging and after suitable porosity and low resistivity values have been identified. Maximum injection interval is anticipated to be from 5,750' to 6,600', but may change based upon actual wellbore determinations. A sundry notice will document such events as a C-105 well completion report filed within 60 days.

4. **Proposed Cementing Plans:**

Surface Casing: Cemented with approximately 155 sacks of Class A cement with 25% excess and circulated to the surface.

Production Casing: Cement with approximately 1,000 sacks of Class H cement with 25% excess and cement back to surface inside the 9-5/8" surface casing string. Cement top to be confirmed by cement bond logging after cement has cured to appropriate compressive strength.

5. **Pressure Control:** All Blowout Preventers (BOP) and related equipment will comply with well control requirements as described OCD Rules and Regulations and API RP 53, Section 17. The BOP will be either a Hydril, Cameron or equivalent. Minimum working pressure of the BOP and related equipment required for the drilling shall be 500 psi. The maximum working pressure is anticipated at 3,000 psig and the test pressure will be 3,000 psig. The OCD Hobbs district office shall be notified a minimum of 4 hours in advance for a representative to witness all BOP pressure tests. The test shall be performed by an independent service company utilizing a test plug (no cup of J-packer). The results of the test shall be recorded on a calibrated test chart submitted to the OCD district office. BOP testing shall be conducted at:

a. Installation;
b. After equipment or configuration changes;

Proposed Robinson SWD 1 Drilling

c. At 30 days from any previous test, and;
d. Any time operations warrant, such as well conditions.

The BOP specifications to be used during the various phases of the drilling and casing installation are included in the table below:

Casing Size	Annular Preventer	Rams
16”	26-3/4” – 3M, with diverter	None
9.625”	11” – 5M	Pipe & Blind/Shear – 5M
7.0”	11” – 5M	Pipe & Blind/Shear – 5M

A diagram showing the representative BOP setup is included as Attachment 1.

6. **Auxiliary Well Control and Monitoring:** Hydraulic remote BOP operation and mudlogging to monitor returns.

7. **Mud Program and Monitoring:** Mud will be balanced for all operations with adjustment as needed based on actual wellbore conditions and is proposed as follows:

DEPTH	MUD TYPE	WEIGHT	FV	PV	YP	FL	pH
0-495’	FW Spud Mud	8.5-9.2	70-40	20	12	NC	10.0
495’-6,600’	Brine Mud	9.2-10.0	28-32	NC	NC	NC	10.0

Mud and all cuttings monitored with all drill cuttings recovered for disposal. Returns shall be visually and electronically monitored. In the event of H_2S, mud shall be adjusted appropriately by weight and H_2S scavengers.

8. **H_2S Safety:** This well and related facilities are not expected to have H_2S releases. However, there may be H_2S in the area. There are no private residences or public facilities in the area but a contingency plan has been developed. Goodnight Midstream Permian, LLC will have a company representative available to personnel throughout all operations. If H_2S levels greater than 10ppm are detected or suspected, the H_2S Contingency Plan will be implemented at the appropriate level.

H_2S Safety – There is a low risk of H_2S in this area. The operator will comply with the provisions of New Mexico Administrative Code (NMAC) 19.15.11 and Bureau of Land Management (BLM) Onshore Oil and Gas Order #6.

a. Monitoring – all personnel will wear monitoring devices.
b. Warning Sign – a highly visible H_2S warning sign will be placed for obvious viewing at the vehicular entrance point onto location.
c. Wind Detection – two (2) wind direction socks will be placed on location.
d. Communications – will be via cellular phones and/or radios located within reach of the driller, the rig floor and safety trailer when applicable.
e. Alarms – will be located at the rig floor, circulating pump/reverse unit area and the flare line and will be set for visual (red flashing light) at 15 ppm and visual and audible (115 decibel siren) at 20 ppm.
f. Mud program – If H_2S levels require, proper mud weight, safe drilling practices and H_2S scavengers will minimize potential hazards.

Proposed Robinson SWD 1 Drilling

g. Metallurgy – all tubulars, pressure control equipment, flowlines, valves, manifolds and related equipment will be rated for H2S service if required.

The Goodnight Midstream Permian, LLC H2S Contingency Plan will be implemented if levels greater than 10ppm H2S are detected.

9. **Geophysical Logging and Testing:** Goodnight Midstream Permian, LLC expects to run:

a. Geophysical logging through the proposed injection interval will ensure the target interval remains within the Glorieta.
b. An open hole gamma ray, SP, compensated density- neutron and dual resistivity log suite will be run from total depth to approximately 525'.
c. A cement bond log with gamma ray and collar locator will be run (Radial, CET or equivalent) on the production casing.
d. No cores or drill stem tests will be conducted. (The well may potentially be step rate tested in the future if additional injection pressures are required.)

10. **Potential Hazards:** H2S is a potential hazard. No abnormal pressure or temperatures are anticipated, but drilling operations will be prepared in the event that those conditions occur.

No loss of circulation is expected to occur with the exception of drilling into the target disposal zone. All onsite personnel will be familiar with the safe operation of the equipment being used to drill this well. The maximum anticipated bottom-hole pressure is 2500 psig and the maximum anticipated bottom-hole temperature is 210°F.

11. **Waste Disposal Management:** All drill cuttings, fluids, and other solid wastes associated with drilling and completion operations will be transported to a solid waste facility and commercial Class IID injection operation that has been approved and permitted by the Environmental Bureau of the OCD.

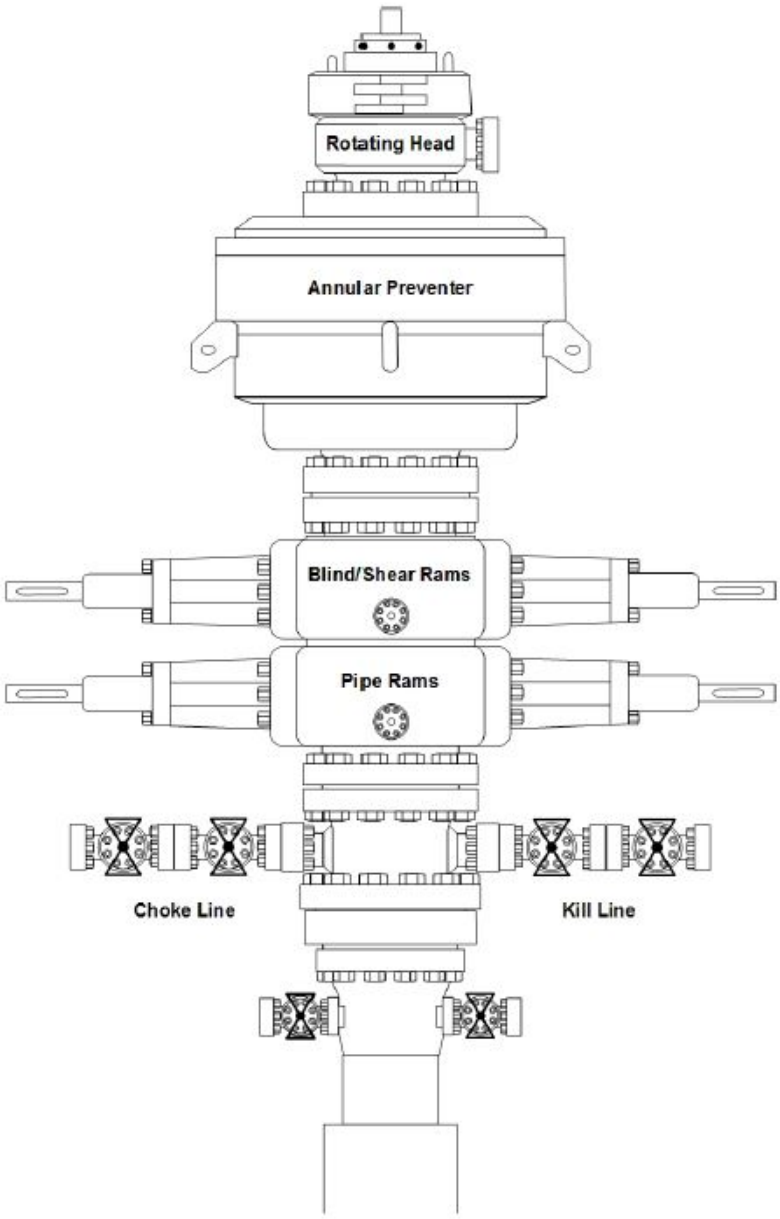
12. **Anticipated Drilling Commencement Date:** Upon approval of the permit for saltwater disposal (SWD), operations would begin within 30 days based on rig availability. Drilling and completion of the well will take approximately six to seven weeks. Installation of the surface facility such as the secondary containment and tank battery, plumbing, injection pump(s), and other treatment and filtering associated equipment would be occurring after the well is completed. In any event, it is not expected for the construction of the surface facility of the project to last more than 90 days, pending on availability of subcontractors and equipment lead times.

13. **Completion for Salt Water Disposal:** Subsequent to SWD permit issuance from OCD and prior to commencing any work, a Notice of Intent (NOI) sundry will be submitted to complete the well for SWD and will detail the completion workover including all work otherwise described above, any change to the procedure noted herein and to perform mechanical integrity pressure testing per BLM and OCD test procedures (including appropriate OCD notification).The tubing and packer will be set at a depth of approximately 5,730 feet and the casing/tubing annulus will be filled with freshwater and corrosion inhibitor and pressure tested to the required test pressure using the standard annulus pressure test. Anticipated daily maximum volume is 25,000 barrels of water per day (bpd) and average of 12,500 bpd at a maximum surface injection pressure of 1,150 psig (0.2 psi/ft to the top of the injection interval).

Proposed Robinson SWD 1 Drilling

If satisfactory disposals rates cannot be achieved at default pressure of .02 psi/ft, Goodnight Midstream Permian, LLC will conduct a step-rate test and apply for an injection pressure increase 50 psig below actual parting pressure achieved during the step-rate testing.

Attachment 1 – Representative BOP Setup



District I
1625 N. French Dr., Hobbs, NM 88240
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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 13074

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
GOODNIGHT MIDSTREAM PERMIAN, L 5910 North Central Expressway Suite 850 Dallas, TX75206	372311	13074	C-141

OCD Reviewer	Condition
chensley	Closure is due 06/10/2021