Review of Semi-Annual Groundwater Monitoring Report (January to June 2022) Report: **Content satisfactory**

1. Continue conducting quarterly monitoring of the limited well network (composed of perimeter and interior source wells).
2. Continue collecting all viable wells in the groundwater monitoring system bi-annually.
3. Submit next bi-annual groundwater monitoring summary report no later than January 31, 2023.

Semi-Annual Groundwater Monitoring Report (January-June 2022)

Dollarhide Oil Field Unit
Andrews County, Texas
RRC OCP No. 08-1048
OCD RP No. 1R-3944

Scout Energy Management

August 10, 2022

→ **The Power of Commitment**

Contents

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Appendix Index

1. Introduction

GHD Services Inc. (GHD), on behalf of Scout Energy Management (Scout), submits herein to the Railroad Commission of Texas (RRC) the *Semi-Annual Groundwater Monitoring Report (January to June 2022)* for the Dollarhide Oil Field Unit located in Andrews County, Texas (Site). The latitude/longitude coordinates for the Site are 32º 08' 45.60" N and 103º 03' 20.12" W, and a vicinity map showing the Site location is included as Figure 1. This report presents a summary and evaluation of the annual groundwater monitoring data collected in the first half of 2022. It should be noted that following meetings with the RRC and New Mexico Oil Conservation Division (OCD) on April 18 and 19th, respectively, a general agreement was reached on the proposed strategy and path forward to closure for the Site. The agreed upon assessment strategy includes the following: three (3) groundwater monitoring events from a limited well network composed of perimeter and interior source wells, and one (1) comprehensive groundwater monitoring event to demarcate the impacted groundwater extent and record COCs remaining in groundwater to be included in the Restrictive Covenants (RCs) for each property owner. This report summarizes the January 2022 comprehensive sampling event and one of the three agreed-upon limited sampling events completed in June 2022 following the meetings with the RRC and OCD.

2. Background

It is believed that historical operations at the Site have contributed to elevated chloride concentrations in groundwater in the Ogallala Aquifer. The Site was discovered as an oil and gas production field in 1945 and, over the years, was owned and operated and/or leased by various companies that disposed of excess produced water and drilling fluids into pits. The use of pits for water disposal ceased in 1967, and the Site operators began using an injection system for disposal. In 1971, the first evidence of elevated chloride concentrations in groundwater was identified in Tract 26, and then in 1974 in Tract 45. Groundwater assessment was initiated in 1974, and groundwater recovery was initiated in 1994 by Union Oil Company of California (Unocal).

Representatives of Unocal and the RRC participated in a meeting on June 2, 1994, to discuss the installation of 24 recovery wells located in Texas along the Texas and New Mexico State Line to remove chloride-impacted groundwater from the Ogallala aquifer. Unocal received RRC approval of the recovery system in written correspondence on July 7, 1994. Since 1994, two additional recovery wells were installed, totaling 26 recovery wells that recovered groundwater from the Site. The recovered groundwater was pumped into two on-Site injection wells for oil reservoir pressure maintenance. Chevron Corporation purchased Unocal in August 2005. Since that time, Chevron U.S.A., Inc. (Chevron) continued to operate the groundwater recovery system until the system shutdown in November 2017, with concurrence from the RRC and OCD. On October 1, 2021, Chevron completed the sale of the Dollarhide Oil Field Unit to Scout.

2.1.1 Former Pits

Prior to the 1970s, it was an accepted practice in oil field operations to store produced water in pits adjacent to well locations. After livestock water wells in the vicinity of the Site began exhibiting elevated chloride concentrations, soil borings were installed in all former pit locations to assess possible chlorides in soil leaching to groundwater. Historical aerial photographs were reviewed to assess potential source areas. A 1955 aerial photograph identified the presence of approximately 84 former produced water (brine) pits adjacent to Site well locations. A large-scale evaporation pit located to the northwest of the existing gas plant that had been utilized to store mixed brine was identified as a potential source area. Soil samples were collected from various depths within the former pits and were submitted for laboratory analysis of chlorides. Former pit locations with soil chloride concentrations less than 700 parts per million (ppm) were determined not to be potential source areas and were left in place. The former pit locations with soil

chloride concentrations greater than 700 ppm were determined to be potential source areas, and Unocal capped the pits with a geosynthetic clay liner to prevent any further leaching of chlorides.

2.1.2 Light Non-Aqueous Phase Liquid

During a groundwater sampling event in January 2000, dissolved hydrocarbon constituents and light non-aqueous phase liquid (LNAPL) were detected in recovery well 44-J-WW during a routine groundwater sampling event. The LNAPL exhibited elevated concentrations of hydrocarbons in the C6-C12 range, indicative of natural gas liquids. A north-south trending underground pipeline that contains hydrocarbon products, operated by another company (not Scout), is located within 100 feet of monitor well 44-J-WW. Soil investigations were conducted in 2000 by Unocal and 2011 by Chevron, to determine the source area of the release; however, no hydrocarbon impacts were detected in soil. On November 5, 2010, LNAPL was discovered in two additional recovery wells, 44-I-WW and 44-II-WW, during routine operation and maintenance. Due to the presence of LNAPL, these three wells remained inactive through November 2017, when the groundwater recovery system was shut down to prevent the introduction of LNAPL into the groundwater recovery system. The LNAPL identified in these three wells (44-J-WW, 44-I-WW, and 44-II-WW) is not located near any of Chevron's former assets that contain hydrocarbons, and the LNAPL is believed to be associated with other third-party pipelines in the vicinity. LNAPL investigation efforts have been summarized in previous reports that have been submitted to the RRC.

3. Regulatory Framework

The RRC has regulatory jurisdiction over oil and gas production operations in the State of Texas. Scout is working under the guidance of the RRC to address the groundwater chloride impacts as a result of historic operations at the Site. Under the RRC, the Site is regulated under Title 16 of the Texas Administrative Code (TAC) Chapter 3 (relating to the Oil and Gas Division) Rule §3.8(b) (Statewide Rule 8 Water Protection).

Due to the proximity of the Site being located near the Texas and New Mexico state boundaries, correspondence with the OCD has been maintained on Site activities relating to the groundwater assessment being completed under the jurisdiction of the RRC. Per OCD's request, a Release Notification and Corrective Action (C-141) Form was submitted in a written correspondence on October 28, 2015, in order to establish a file for the Site.

4. Groundwater Monitoring

As discussed in Section 1.0, following agency meetings with the RRC and OCD in April 2022, it was agreed upon that the next three quarterly groundwater sampling events be conducted from a limited well matrix consisting of perimeter and source monitoring wells, and one quarterly sampling event be conducted from the comprehensive set of monitoring wells throughout the Site. As such, this report summarizes the results of the January 2022 sampling event and one of the three limited well network sampling events in June 2022 following the agency meetings in April 2022.

The groundwater monitoring system consists of 67 monitor wells and 8 non-remedial wells screened in the Ogallala Aquifer approximately 120 feet below ground surface. Groundwater well designations are shown on Figure 2 and listed in Table 1. The groundwater data collected during the January 2022 and June 2022 events is discussed below.

4.1 Potentiometric Conditions

Prior to sampling, depth-to-groundwater measurements were collected at each well with an oil/water interface probe, with an accuracy of 0.01 foot, to determine the groundwater elevation in each well. Groundwater potentiometric elevations and contours for the January 2022 and June 2022 events are shown on Figures 3 and 4, respectively. The

measurements indicate that the groundwater flow direction is generally to the southwest which is consistent with previous events. A summary of the depth-to-groundwater measurements and the corresponding groundwater elevations are included in Tables 2 and 3. Historical groundwater elevations have also been provided in Appendix A.

4.2 Groundwater Sampling

During the January 2022 and June 2022 sampling events, groundwater samples were collected via no purge sampling techniques. The groundwater samples were collected directly from the screened interval of each well using a HydraSleeve. The HydraSleeve is deployed during the gauging event to allow the well to return to equilibrium prior to sampling. Groundwater samples were collected in laboratory supplied containers, preserved on ice, and transported to Eurofins Xenco Laboratory located in Midland, Texas, following proper chain-of-custody procedures. All groundwater samples were submitted for analysis of chloride by United States Environmental Protection Agency (EPA) Method 300/300.1 and TDS by EPA Method SM2540C.

4.3 Analytical Results

Groundwater sample analytical results were compared to the Texas Commission of Environmental Quality (TCEQ) Secondary Drinking Water Standards and Secondary Constituent levels for chlorides (300 milligrams per liter [mg/L]) and TDS (1,000 mg/L). The groundwater sample analytical results from the January and June 2022 events are listed in Table 4 and 5, respectively. Groundwater isopleths for chloride and TDS concentrations for both the January and June 2022 sampling events are shown on Figures 5 through 8. Additionally, the analytical laboratory reports for both the January and June 2022 sampling events are included in Appendices B and C, respectively. The concentrations of chlorides and TDS are generally consistent with historical events. The chloride plume has been fully delineated in the downgradient direction in both Texas and New Mexico following the installation of the 2020 monitor wells. Historical groundwater analytical results have also been provided in Appendix D.

4.4 Quality Assurance/Quality Control

During the January 2022 sampling event, five field duplicate sample sets were collected for chloride and TDS to confirm sample quality and reproducibility. One duplicate sample was collected during the June 2022 sampling event due to the reduced number of samples in the limited well network. No significant deviations were encountered in the sample results for duplicate constituents for either event. All certified groundwater laboratory reports received during the January and June 2022 sampling events were reviewed by a GHD analytical chemist for laboratory and field method quality assurance/quality control (QA/QC). All laboratory reports were approved, and the associated data validation reports issued by GHD are included in Appendix E.

5. Conclusions and Path Forward

The results of the January 2022 groundwater monitoring event confirmed further evidence that the groundwater plume is stable and that the potentiometric flow is well understood. The June 2022 sampling event was the first of three groundwater sampling events completed from the limited well network (composed of perimeter and interior source wells). Based on the results of the January and June 2022 sampling events and observed trends in historical events, concentrations of chlorides and TDS remained consistent, and the chloride plume has been delineated in the observed southwest downgradient direction. Scout will continue conducting groundwater sampling in accordance with the path forward for the Site with the next sampling event scheduled for September 2022 from the limited well network.

Should you have any questions regarding this submittal, please contact Phillip Moore of GHD at (972) 331-5946 or Spencer Jackson of Scout at (972) 505-3842.

All of which is Respectfully Submitted,

GHD

Phillip H. Moore, P.G.
Texas PG No. 15018

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Texas PG No. 13096

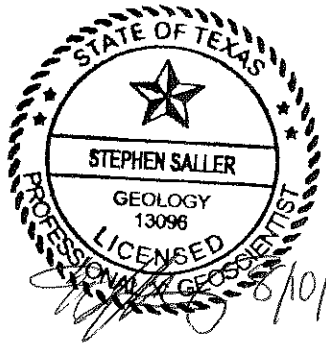


Table 1

Groundwater Well Designations
Scout Dollarhide Unit
Andrews County, Texas

Well Group Designation	Well Identification
Recovery Wells	10-V-WW
	10-W-WW
	10-X-WW
	11-U-WW
	12-S-WW
	12-T-WW
	29-Q-WW
	29-R-WW
	30-O-WW
	31-N-WW
	43-K-WW
	43-L-WW
	43-M-WW
	44-H-WW
	44-I-WW
	44-II-WW
	44-J-WW
	45-EE-WW
	45-ER-WW
	45-F-WW
	45-G-WW
	58-A-WW
	58-B-WW
	58-BB-WW
	58-C-WW
	58-D-WW
Monitor Wells	43-K-1-MW
	44-I-1-MW
	44-J-1-MW
	44-J-2-MW
	44-J-3-MW
	44-J-4-MW
	44-J-5-MW
	45-E-1-MW
	45-E-2-MW
	45-E-3-MW
	45-F-1-MW
	45-FF-MW
	58-B-1-MW
	58-B-2-MW
	58-B-3-MW
	MW-2
	MW-3
	MW-4
	MW-5
	MW-6
	MW-7
	MW-8
	MW-9
	MW-10
	MW-11
	MW-12
	MW-13
	MW-14

Table 1

Groundwater Well Designations
Scout Dollarhide Unit
Andrews County, Texas

Well Group Designation	Well Identification
Monitor Wells	MW-15
	MW-16
	MW-17
	MW-18(1)
	MW-19(1)
	MW-20
	MW-21
	MW-22
	MW-23
	MW-24
	MW-25(1)
	MW-26
	MW-27
	MW-28
	MW-29(1)
	MW-30
	MW-31(1)
	MW-32
	MW-33
	MW-34(1)
	NM-MW-1(1)
	NM-MW-2
	NM-MW-3
	NM-MW-4
	NM-MW-5(1)
	NM-MW-6(1)
	NM-MW-7
	NM-MW-8
	NM-MW-9(1)
	NM-MW-10(1)
	NM-MW-11
	NM-MW-12
	NM-MW-13
	NM-MW-14
	NM-MW-15(1)
	NM-MW-16
	NM-MW-17(1)
	NM-MW-20(1)
	NM-MW-21
Non-Remedial Wells	Livermore
	Pure Water Tower
	Pure Water Well
	RRR Ranch Windmill
	TRAC-4
	TRAC-8
	Smith Residence
	Wilson Ranch Well

Note:
1. (1) indicates a well that is included in the Limited Well Matrix

Table 2

January 2022 Groundwater Elevation Measurements
Scout Dollarhide Unit
Andrews County, Texas

Well Identification	TOC Elevation (ft NAVD)	Depth to Water (ft below TOC)	Groundwater Elevation (ft NAVD)
Monitor Wells			
43-K-1-MW	NM	93.40	NA
44-I-1-MW	3,138.93	94.89	3,044.04
44-J-1-MW	3,134.50	94.72	3,039.78
44-J-2-MW	3,135.30	93.37	3,041.93
44-J-3-MW	3,140.19	94.88	3,045.31
44-J-4-MW	3,133.69	93.87	3,039.82
44-J-5-MW	3,134.75	94.94	3,039.81
45-E-1-MW	NM	86.69	NA
45-E-2-MW	NM	84.11	NA
45-E-3-MW	NM	86.96	NA
45-F-1-MW	NM	88.71	NA
45-FF-MW	3,122.70	88.97	3,033.73
58-B-1-MW	3,100.59	84.91	3,015.68
58-B-2-MW	3,111.91	83.91	3,028.00
58-B-3-MW	3,108.46	88.93	3,019.53
MW-2	3,204.56	109.09	3,095.47
MW-3	3,199.51	113.13	3,086.38
MW-4	3,189.69	115.76	3,073.93
MW-5	3,174.43	103.00	3,071.43
MW-6	3,165.25	94.09	3,071.16
MW-7	3,132.14	115.54	3,016.60
MW-8	3,107.34	84.11	3,023.23
MW-9	3,103.82	84.59	3,019.23
MW-10	3,139.71	96.98	3,042.73
MW-11	3,156.65	102.48	3,054.17
MW-12	3,151.33	94.77	3,056.56
MW-13	3,168.41	98.94	3,069.47
MW-14	3,182.69	106.84	3,075.85
MW-15	3,184.55	104.09	3,080.46
MW-16	3,167.93	99.45	3,068.48
MW-17	3,147.44	84.27	3,063.17
MW-18	3,155.01	95.85	3,059.16
MW-19	3,149.90	99.32	3,050.58
MW-20	3,120.09	87.67	3,032.42
MW-21	3,159.65	92.60	3,067.05
MW-22	3,152.50	87.95	3,064.55
MW-23	3,151.66	87.20	3,064.46
MW-24	3,144.88	95.12	3,049.76
MW-25	3,165.45	103.35	3,062.10
MW-26	3,136.99	93.45	3,043.54
MW-27	3,126.99	91.29	3,035.70

Table 2

January 2022 Groundwater Elevation Measurements
Scout Dollarhide Unit
Andrews County, Texas

Well Identification	TOC Elevation (ft NAVD)	Depth to Water (ft below TOC)	Groundwater Elevation (ft NAVD)
MW-28	3,093.86	83.88	3,009.98
MW-29	3,098.60	100.30	2,998.30
MW-30	3,170.95	103.51	3,067.44
MW-31	3,145.41	94.79	3,050.62
MW-32	3,090.28	81.48	3,008.80
MW-33	3,080.02	76.97	3,003.05
MW-34	3,069.95	71.44	2,998.51
NM-MW-1	3,124.90	71.81	3,053.09
NM-MW-2	3,152.86	95.60	3,057.26
NM-MW-3	3,146.86	91.13	3,055.73
NM-MW-4	3,154.21	109.81	3,044.40
NM-MW-5	3,109.14	100.01	3,009.13
NM-MW-6	3,093.23	87.73	3,005.50
NM-MW-7	3,147.67	95.49	3,052.18
NM-MW-8	3,138.62	97.16	3,041.46
NM-MW-9	3,118.18	93.38	3,024.80
NM-MW-10	3,066.32	79.74	2,986.58
NM-MW-11	3,075.44	82.53	2,992.91
NM-MW-12	3,105.47	96.44	3,009.03
NM-MW-13	3,051.17	84.56	2,966.61
NM-MW-14	3,126.82	95.59	3,031.23
NM-MW-15	3,064.93	86.86	2,978.07
NM-MW-16	3,085.99	NM	NA
NM-MW-17	3,035.70	94.68	2,941.02
NM-MW-20	3,091.29	58.63	3,032.66
NM-MW-21	3,047.98	93.34	2,954.64
Non-Remedial Wells			
RRR Ranch Windmill	NM	93.28	NA
Livermore	NM	95.43	NA
Pure Water Tower	3,154.43	NM	NA
TRAC-4	NM	NM	NA
TRAC-8	NM	NM	NA
Pure Water Well	3,151.80	NM	NA
Smith Residential Well	NM	NM	NA
Wilson Ranch	NM	NM	NA

Notes:
ft = feet
NM = Not Measured
NA = Not Applicable
TOC = top of casing
NAVD = North American Vertical Datum

Table 3

June 2022 Groundwater Elevation Measurements
Scout Dollarhide Unit
Andrews County, Texas

Well Identification	TOC Elevation (ft NAVD)	Depth to Water (ft below TOC)	Groundwater Elevation (ft NAVD)
Monitor Wells			
MW-18	3,155.01	96.11	3,058.90
MW-19	3,149.90	99.54	3,050.36
MW-25	3,165.45	103.70	3,061.75
MW-29	3,098.60	100.38	2,998.22
MW-31	3,145.41	94.85	3,050.56
MW-34	3,069.95	71.65	2,998.30
NM-MW-1	3,124.90	72.10	3,052.80
NM-MW-5	3,109.14	100.13	3,009.01
NM-MW-6	3,093.23	87.87	3,005.36
NM-MW-9	3,118.18	93.48	3,024.70
NM-MW-10	3,066.32	79.93	2,986.39
NM-MW-15	3,064.93	87.01	2,977.92
NM-MW-17	3,035.70	58.77	2,976.93
NM-MW-20	3,091.29	93.53	2,997.76

Notes:
ft = feet
NM = Not Measured
NA = Not Applicable
TOC = top of casing
NAVD = North American Vertical Datum

January 2022 Groundwater Analytical Results Summary
Scout Dollarhide Unit
Andrews County, Texas

Sample ID	January	
	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)	**300**	**1,000**
Monitor Wells		
43-K-1-MW	**5400**	**9950**
44-I-1-MW	**4260**	**7150**
44-J-1-MW	**4940**	**8460**
44-J-2-MW	**5470**	**8630**
44-J-3-MW	**5810**	**9650**
44-J-4-MW	**5170**	**8250**
44-J-5-MW	**4980**	**8100**
45-E-1-MW	**3580**	**8540**
45-E-2-MW	**1620**	**3140**
45-E-3-MW	**4680**	**8120**
45-F-1-MW	**974**	**1960**
45-FF-MW	**3680**	**6710**
58-B-1-MW	**6740**	**10400**
58-B-2-MW	**3830**	**6450**
58-B-3-MW	**1870**	**3360**
MW-2	NS	NS
MW-3	**630**	**1,360**
MW-4	**306**	933
MW-5	232	932
MW-6	**369**	**1,500**
MW-7	NS	NS
MW-8	**1,010**	**2,930**
MW-9	**2,830**	**4,880**
MW-10	**5,320**	**8,460**
MW-11	**6,240**	**12,600**
MW-12	**12,200**	**22,500**
MW-13	**2,070**	**4,190**
MW-14	**1,740**	**3,110**
MW-15	**998**	**1,890**
MW-16	**582**	**1,550**
MW-17	**5,920**	**13,000**
MW-18	**22,600**	**36,200**
MW-19	**8,620**	**13,800**
MW-20	**1,170**	**2,670**
MW-21	**6,910**	**11,700**
MW-22	**11,600**	**20,700**
MW-23	**7,510**	**12,500**
MW-24	**4,760**	**11,800**
MW-25	**23,500**	**39,500**
MW-26	**1,510**	**4,540**
MW-27	**2,360**	**4,260**
MW-28	**4,190**	**7,390**
MW-29	**572**	**1,290**
MW-30	**2,220**	**4,070**
MW-31	**10,200**	**16,400**

January 2022 Groundwater Analytical Results Summary
Scout Dollarhide Unit
Andrews County, Texas

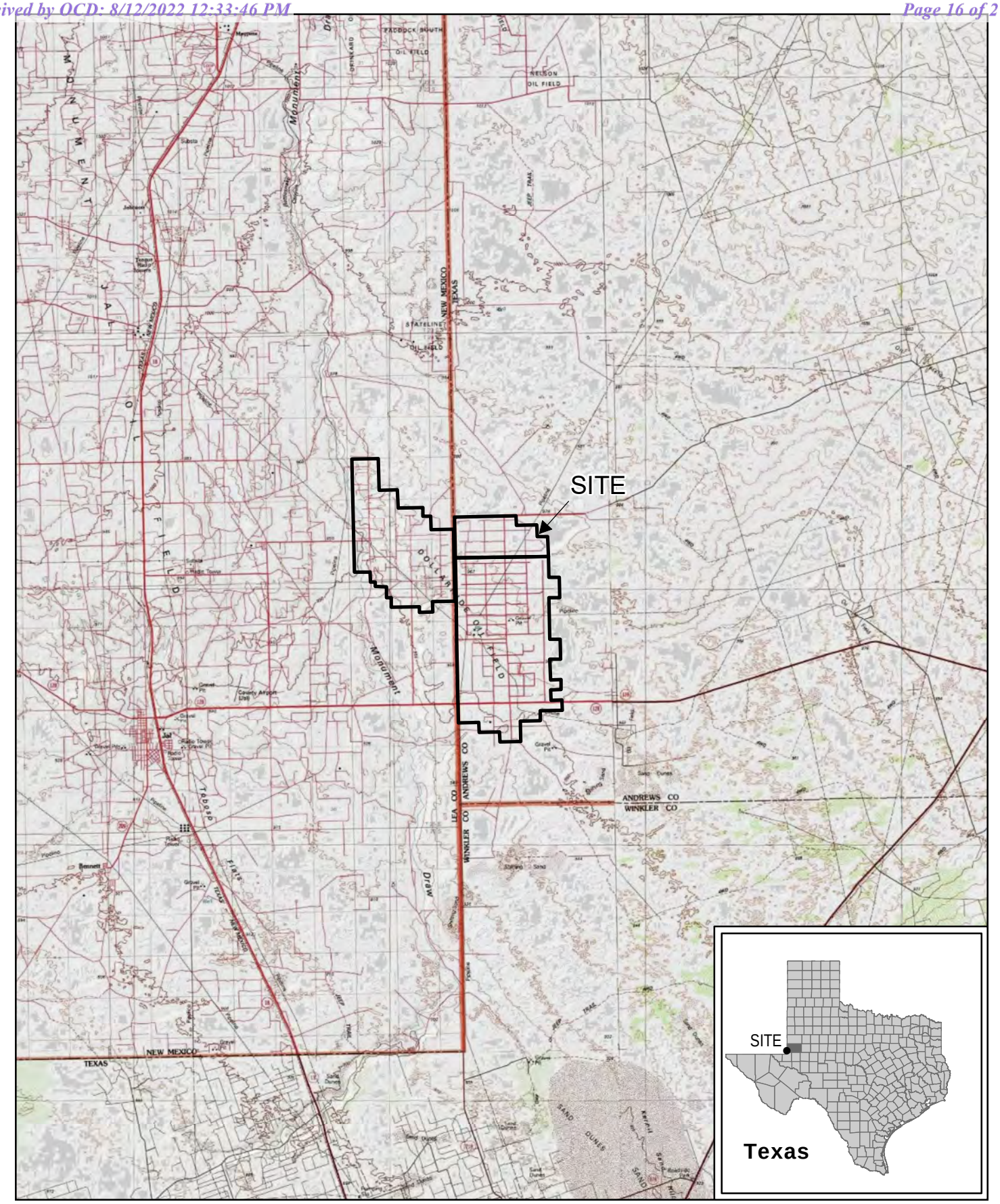
Sample ID	January	
	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)	**300**	**1,000**
MW-32	**389**	**1,200**
MW-33	216	**1,220**
MW-34	71.3	661
NM-MW-1	279	**1,520**
NM-MW-2	**799**	**1,450**
NM-MW-3	**365**	792
NM-MW-4	44.0	432
NM-MW-5	144	**1,230**
NM-MW-6	154	847
NM-MW-7	**2,340**	**4,680**
NM-MW-8	**7,490**	**11,500**
NM-MW-9	256	786
NM-MW-10	**335**	**1,630**
NM-MW-11	159	**2,010**
NM-MW-12	**417**	**1,190**
NM-MW-13	197	**1,210**
NM-MW-14	23.2	474
NM-MW-15	51.2	517
NM-MW-16	NS	NS
NM-MW-17	212	**1,140**
NM-MW-20	20.8	402
NM-MW-21	26.9	536
Non-Remedial Wells		
Livermore	**2,190**	**4,170**
Pure Water Tower	NA	NA
Pure Water Well	NA	NA
RRR Ranch Windmill	**2,350**	**4,080**
Smith Residential Well	**868**	**1,830**
TRAC-4	**311**	**1,700**
TRAC-8	NA	NA
Wilson Ranch	**959**	**1,780**
DHU-FWS	NS	NS

Notes:
1. Constituent concentrations are reported in milligrams per liter (mg/L).
2. Bold font indicates that a detected result was above the TCEQ Secondary Drinking Water Standard.
NA = Not Applicable
NS = Not Sampled

June 2022 Groundwater Analytical Results Summary
Scout Dollarhide Unit
Andrews County, Texas

Sample ID	June	
	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)	**300**	**1,000**
Monitor Wells		
MW-18	**9,910**	**36,100**
MW-19	**11,300**	**15,800**
MW-25	**23,900**	**38,500**
MW-29	**619**	**1,400**
MW-31	**12,300**	**18,800**
MW-34	70.9	625
NM-MW-1	259	**1,480**
NM-MW-5	143	**1,320**
NM-MW-6	159	843
NM-MW-9	242	832
NM-MW-10	**326**	**1,630**
NM-MW-15	54.9	509
NM-MW-17	211	**1010**
NM-MW-20	21.3	395

Notes:
1. Constituent concentrations are reported in milligrams per liter (mg/L).
2. Bold font indicates that a detected result was above the TCEQ Secondary Drinking Water Standard.
NA = Not Applicable
NS = Not Sampled



Paper Size ANSI A

0 1 2 3

Miles

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 13N

N

GHD

SCOUT ENERGY PARTNERS
ANDREWS COUNTY, TEXAS
CHEVRON DOLLARHIDE UNIT

SITE VICINITY MAP

Project No. 12586708
Revision No. -
Date Aug 3, 2022

FIGURE 1

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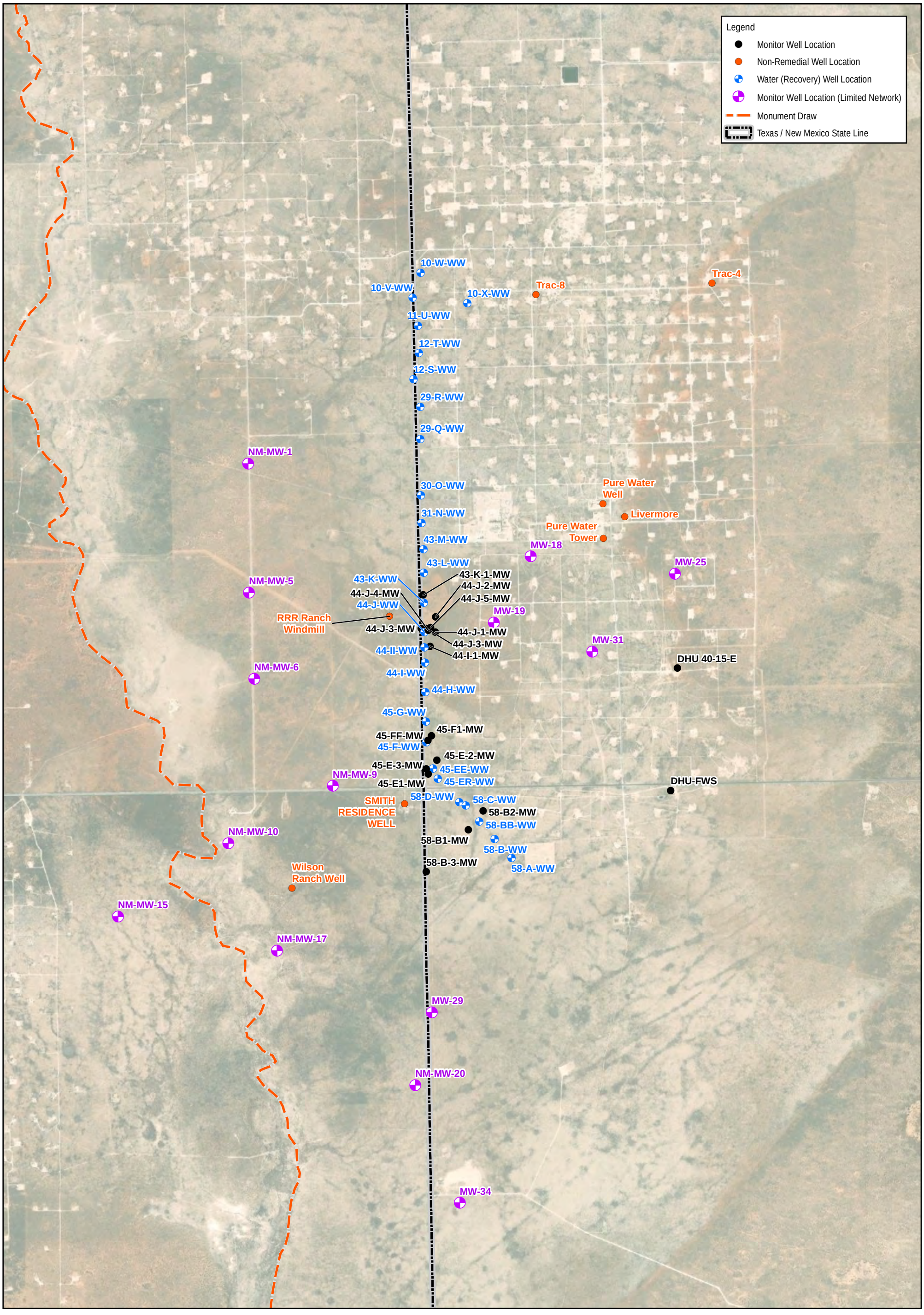


Paper Size ANSI B

0 840 1,680 2,520 3,360

Feet

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 13N

N

GHD

SCOUT ENERGY PARTNERS
ANDREWS COUNTY, TEXAS
DOLLARHIDE OIL FIELD UNIT

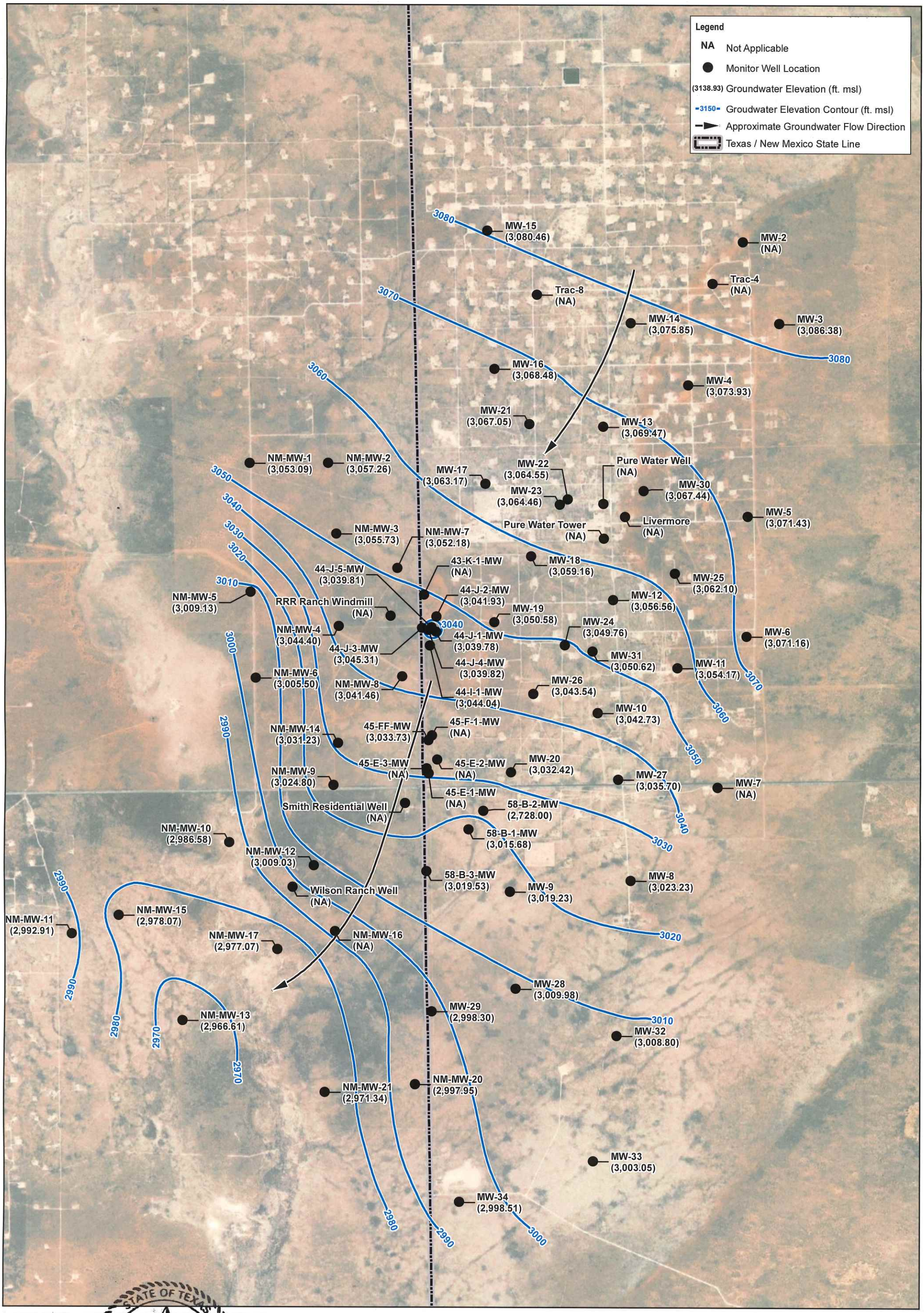
SITE DETAILS MAP

Project No. 12586708
Revision No. -
Date Aug 5, 2022

FIGURE 2

Q:\GIS\PROJECTS\12586000s\12586708\1H2022\12586708_072022_1H2022_GIS002.mxd
Print date: 05 Aug 2022 - 13:45

Data source: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community.
Created by: tmiles



STATE OF TEXAS
STEPHEN SALLER
GEOLOGY
13096
LICENSED
PROFESSIONAL GEOSCIENTIST

Paper Size ANSI B

0 840 1,680 2,520 3,360

Feet

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 13N

N

GHD

SCOUT ENERGY PARTNERS
ANDREWS COUNTY, TEXAS
DOLLARHIDE OIL FIELD UNIT

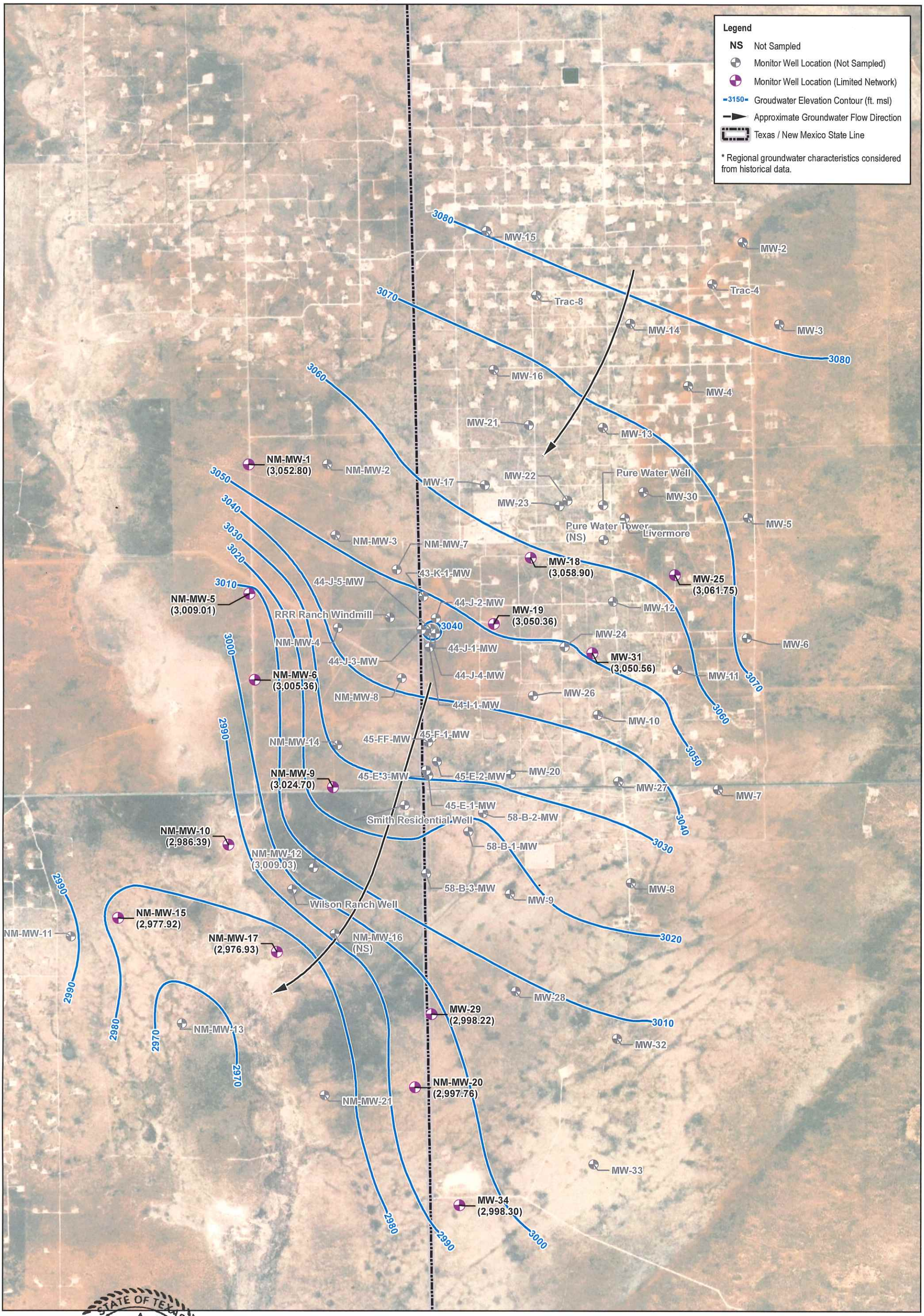
JANUARY 2022 GROUNDWATER POTENTIOMETRIC ELEVATIONS AND CONTOURS

Project No. 12586708
Revision No. -
Date Aug 3, 2022

FIGURE 3

Q:\GIS\PROJECTS\12586000s\12586708\1H2022\12586708_072022_1H2022_GIS003.mxd
Print date: 03 Aug 2022 - 15:14

Data source: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community.
Created by: tmiles



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13096
LICENSED
PROFESSIONAL GEOSCIENTIST

Paper Size ANSI B

0 840 1,680 2,520 3,360

Feet

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 13N

N

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ANDREWS COUNTY, TEXAS
DOLLARHIDE OIL FIELD UNIT

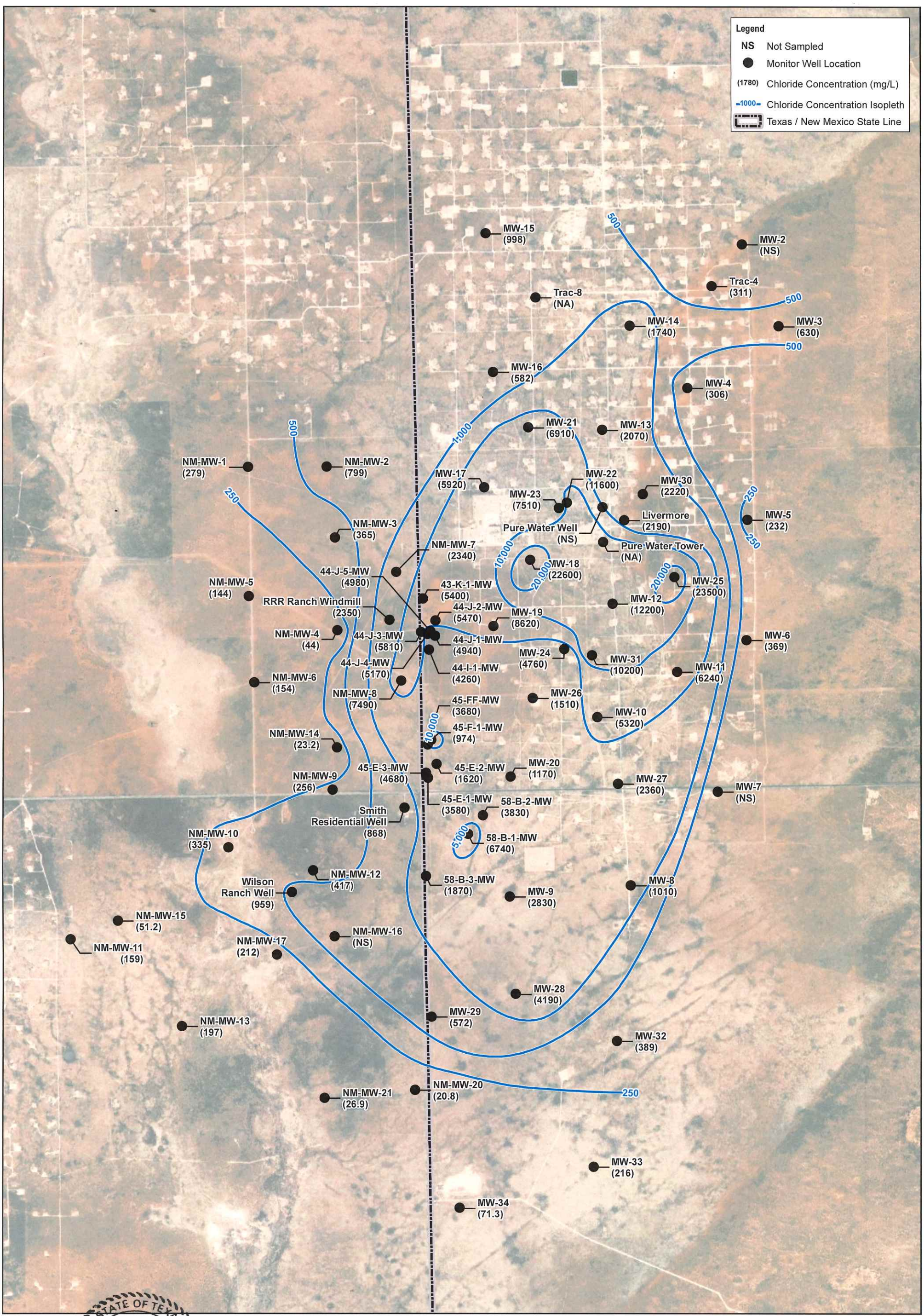
JUNE 2022 GROUNDWATER POTENTIOMETRIC ELEVATIONS AND CONTOURS

Project No. 12586708
Revision No. -
Date Aug 3, 2022

FIGURE 4

Q:\GIS\PROJECTS\12586000s\12586708\1H2022\12586708_072022_1H2022_GIS004.mxd
Print date: 03 Aug 2022 - 15:30

Data source: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community.
Created by: tmiles



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PROFESSIONAL GEOSCIENTIST

Paper Size ANSI B

0 840 1,680 2,520 3,360

Feet

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 13N

N

GHD

SCOUT ENERGY PARTNERS
ANDREWS COUNTY, TEXAS
DOLLARHIDE OIL FIELD UNIT

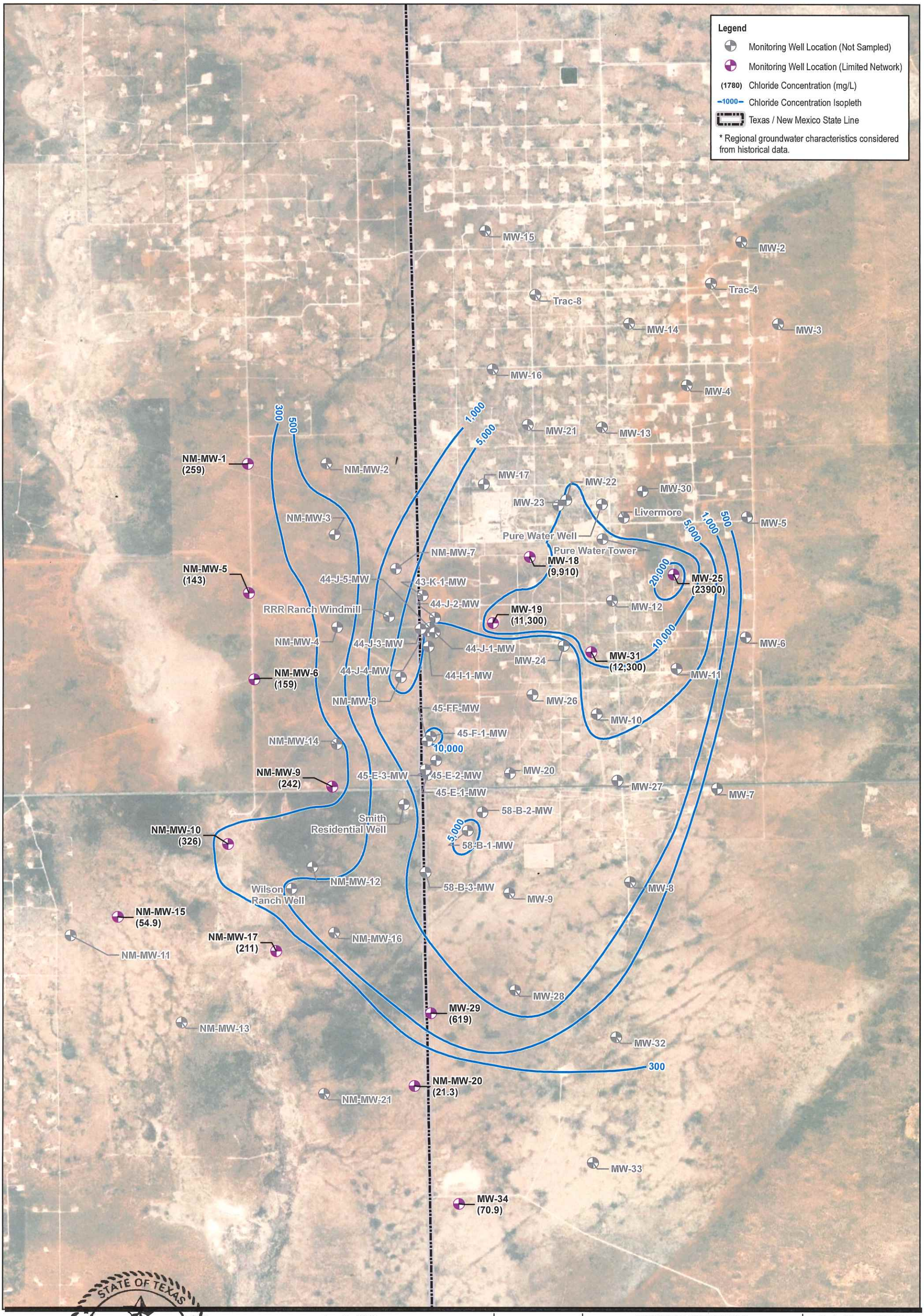
JANUARY 2022 GROUNDWATER CHLORIDE CONCENTRATIONS & ISOPLETHS

Project No. 12586708
Revision No. -
Date Aug 3, 2022

FIGURE 5

Q:\GIS\PROJECTS\12586000s\12586708\1H2022\12586708_072022_1H2022_GIS005.mxd
Print date: 03 Aug 2022 - 15:35

Data source: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community.
Created by: tmiles



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PROFESSIONAL GEOSCIENTIST

Paper Size ANSI B

0 840 1,680 2,520 3,360

Feet

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 13N

N

GHD

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ANDREWS COUNTY, TEXAS
DOLLARHIDE OIL FIELD UNIT

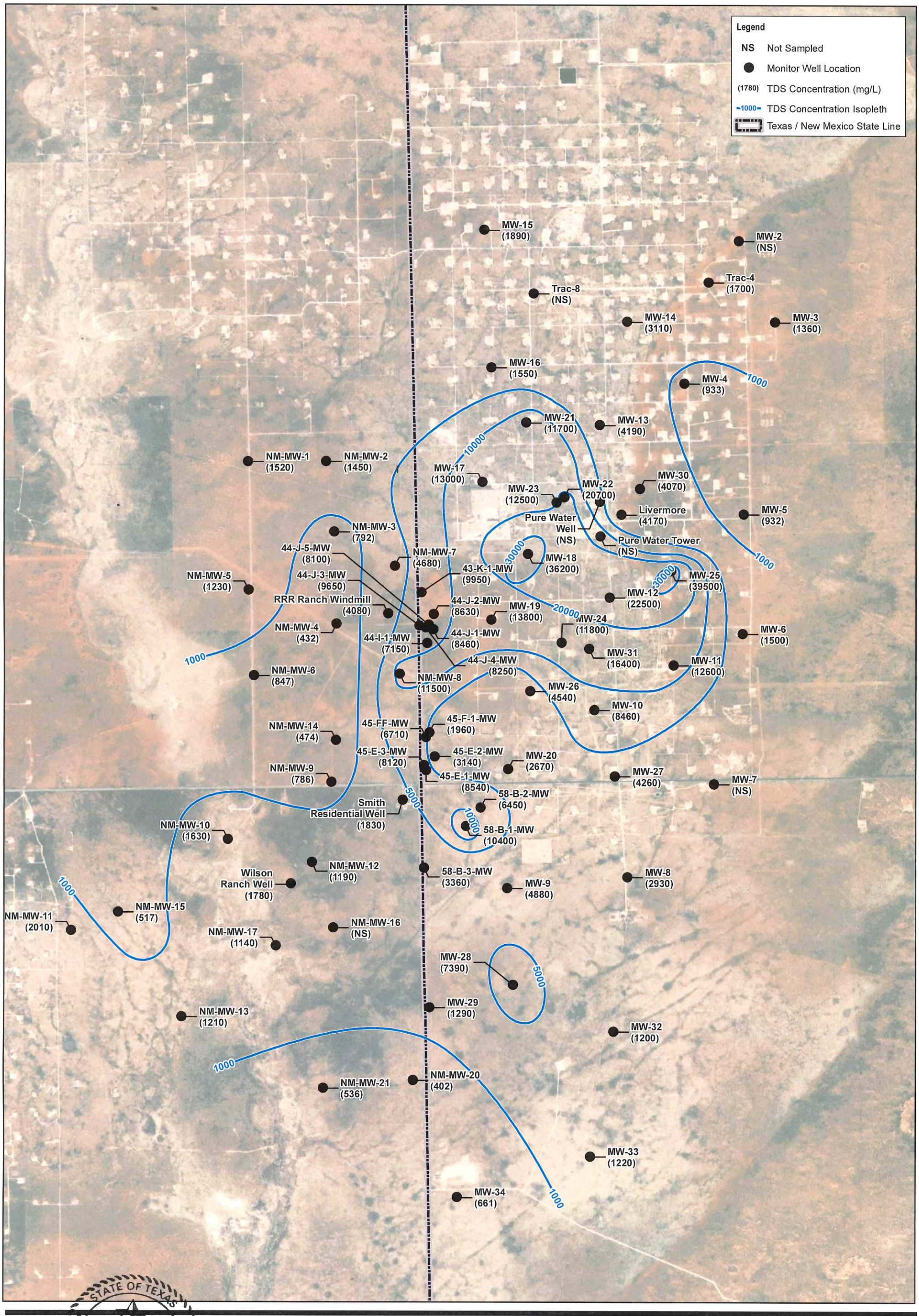
JUNE 2022 GROUNDWATER CHLORIDE CONCENTRATIONS & ISOPLETHS

Project No. 12586708
Revision No. -
Date Aug 3, 2022

FIGURE 6

Q:\GIS\PROJECTS\12586000s\12586708\1H2022\12586708_072022_1H2022_GIS006.mxd
Print date: 03 Aug 2022 - 16:33

Data source: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community.
Created by: tmiles



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PROFESSIONAL GEOSCIENTIST

Paper Size ANSI B

0 840 1,680 2,520 3,360

Feet

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 13N

N

GHD

SCOUT ENERGY PARTNERS
ANDREWS COUNTY, TEXAS
DOLLARHIDE OIL FIELD UNIT

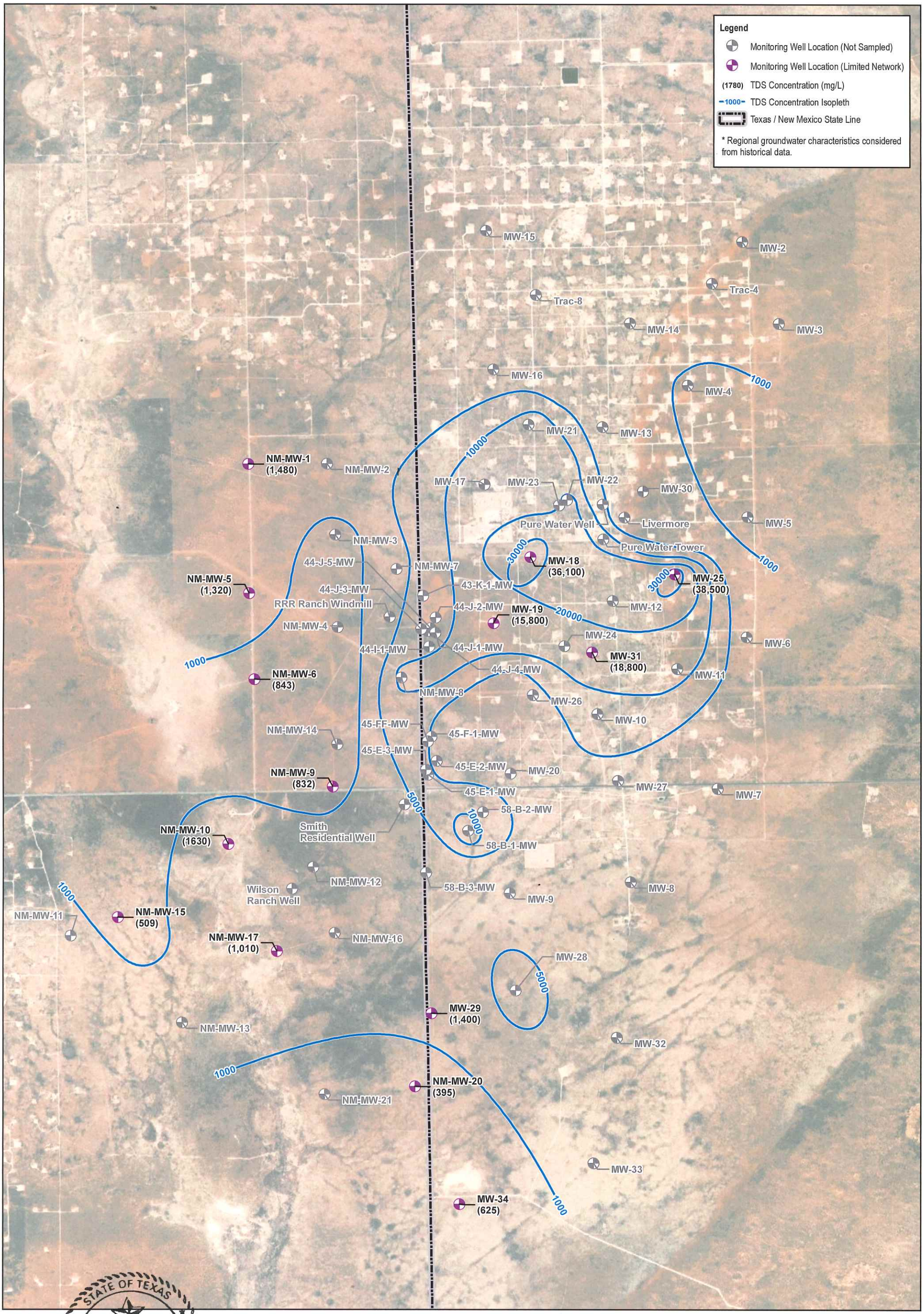
JANUARY 2022 GROUNDWATER TOTAL DISSOLVED SOLIDS (TDS) CONCENTRATIONS & ISOPLETHS

Project No. 12586708
Revision No. -
Date Aug 3, 2022

FIGURE 7

Q:\GIS\PROJECTS\12586000s\12586708\1H2022\12586708_072022_1H2022_GIS007.mxd
Print date: 03 Aug 2022 - 16:14

Data source: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community. Created by: tmiles



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8/10/22

Paper Size ANSI B

0 840 1,680 2,520 3,360

Feet

Map Projection: Transverse Mercator
Horizontal Datum: North American 1983
Grid: NAD 1983 UTM Zone 13N

N

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SCOUT ENERGY PARTNERS
ANDREWS COUNTY, TEXAS
DOLLARHIDE OIL FIELD UNIT

JUNE 2022 GROUNDWATER TOTAL DISSOLVED SOLIDS (TDS) CONCENTRATIONS & ISOPLETHS

Project No. 12586708
Revision No. -
Date Aug 3, 2022

FIGURE 8

Q:\GIS\PROJECTS\12586000s\12586708\1H2022\12586708_072022_1H2022_GIS008.mxd
Print date: 03 Aug 2022 - 16:31

Data source: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community. Created by: tmiles

Appendices

Appendix A

Historical Groundwater Elevations

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
Monitor Wells						
43-K-1-MW						
NM	02/28/07	NM	94.85	NA	NA	NA
	01/22/08	112.95	95.26	NA	NA	NA
	07/07/08	NM	95.33	NA	NA	NA
	08/26/09	114.28	95.69	NA	NA	NA
	01/28/09	112.95	95.32	NA	NA	NA
	08/16/10	NM	95.40	NA	NA	NA
	02/11/11	112.00	95.45	NA	NA	NA
	08/02/11	112.91	94.79	NA	NA	NA
	01/30/13	112.90	95.23	NA	NA	NA
	01/13/14	112.96	92.33	NA	NA	NA
	07/14/14	NM	95.29	NA	NA	NA
	01/12/15	NM	95.21	NA	NA	NA
	07/14/15	NM	95.00	NA	NA	NA
	01/25/16	116.47	94.90	NA	NA	NA
	07/20/16	NM	94.87	NA	NA	NA
	01/11/17	NM	94.82	NA	NA	NA
	07/13/17	NM	95.00	NA	NA	NA
	01/12/18	NM	94.61	NA	NA	NA
	07/02/18	NM	94.47	NA	NA	NA
	01/07/19	NM	94.20	NA	NA	NA
	07/11/19	112.89	94.16	NA	NA	NA
	01/15/20	NM	93.99	NA	NA	NA
	07/07/20	112.89	93.85	NA	NA	NA
	01/06/21	112.89	93.85	NA	NA	NA
	07/21/21	NM	93.80	NA	NA	NA
44-I-1-MW						
3,133.50	06/13/06	108.25	93.55	NA	NA	3,039.95
	08/15/06	110.00	96.85	NA	NA	3,036.65
	09/13/06	106.38	96.91	NA	NA	3,036.59
	09/20/06	110.00	96.72	NA	NA	3,036.78
	10/04/06	110.00	96.94	NA	NA	3,036.56
	12/08/06	111.05	97.09	NA	NA	3,036.41
	02/13/07	108.25	96.85	NA	NA	3,036.65
	02/28/07	NM	96.85	NA	NA	3,036.65
	07/30/07	108.25	96.88	NA	NA	3,036.62
	01/22/08	108.25	97.05	NA	NA	3,036.45
	07/09/08	108.25	97.13	NA	NA	3,036.37
	01/28/09	108.25	97.46	NA	NA	3,036.04
	08/27/09	106.20	97.57	NA	NA	3,035.93
	02/19/10	NM	97.31	NA	NA	3,036.19
	08/16/10	NM	97.30	NA	NA	3,036.20
	02/11/11	NM	96.68	NA	NA	3,036.82
	08/02/11	106.70	96.17	NA	NA	3,037.33
	08/15/12	106.65	96.21	NA	NA	3,037.29
	01/30/13	106.26	95.97	NA	NA	3,037.53
	07/30/13	106.65	96.18	NA	NA	3,037.32
	01/13/14	106.65	96.21	NA	NA	3,037.29
	07/14/14	111.17	95.85	NA	NA	3,037.65
	01/12/15	NM	96.27	NA	NA	3,037.23
	07/14/15	NM	95.91	NA	NA	3,037.59
3,138.93	01/25/16	106.94	95.96	NA	NA	3,042.97
	07/20/16	NM	96.10	NA	NA	3,042.83
	01/12/17	NM	95.84	NA	NA	3,043.09
	07/13/17	NM	96.03	NA	NA	3,042.90

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
	01/12/18	NM	95.64	NA	NA	3,043.29
	07/02/18	NM	95.94	NA	NA	3,042.99
	01/09/19	NM	95.82	NA	NA	3,043.11
	07/11/19	106.21	95.53	NA	NA	3,043.40
	01/14/20	NM	95.39	NA	NA	3,043.54
	07/09/20	106.12	95.10	NA	NA	3,043.83
	01/06/21	106.07	95.20	NA	NA	3,043.73
	07/21/21	NM	94.99	NA	NA	3,043.94
44-J-1-MW						
3,134.50	06/13/06	111.04	96.31	NA	NA	3,038.19
	07/13/06	111.04	96.38	NA	NA	3,038.12
	08/15/06	111.00	96.53	NA	NA	3,037.97
	09/13/06	110.00	96.54	NA	NA	3,037.96
	09/20/06	111.00	96.40	NA	NA	3,038.10
	10/04/06	111.00	96.64	NA	NA	3,037.86
	12/08/06	111.97	97.41	NA	NA	3,037.09
	02/13/07	111.04	96.39	NA	NA	3,038.11
	02/28/07	NM	96.39	NA	NA	3,038.11
	07/30/07	111.04	96.51	NA	NA	3,037.99
	01/22/08	111.04	96.86	NA	NA	3,037.64
	07/09/08	111.04	96.90	NA	NA	3,037.60
	01/28/09	111.04	97.21	NA	NA	3,037.29
	08/28/09	110.40	97.27	NA	NA	3,037.23
	08/16/10	NM	96.82	NA	NA	3,037.68
	02/11/11	NM	96.42	NA	NA	3,038.08
	08/02/11	110.72	95.90	NA	NA	3,038.60
	08/15/12	110.04	96.03	NA	NA	3,038.47
	01/30/13	110.69	95.79	NA	NA	3,038.71
	07/30/13	110.80	95.92	NA	NA	3,038.58
	01/13/14	110.81	95.96	NA	NA	3,038.54
	07/14/14	110.76	95.91	NA	NA	3,038.59
	01/12/15	NM	96.01	NA	NA	3,038.49
	01/25/16	NM	95.72	NA	NA	3,038.78
	07/20/16	NM	95.85	NA	NA	3,038.65
	01/12/17	NM	95.60	NA	NA	3,038.90
	07/13/17	NM	95.80	NA	NA	3,038.70
	01/12/18	NM	95.41	NA	NA	3,039.09
	07/02/18	NM	95.70	NA	NA	3,038.80
	01/09/19	NM	95.57	NA	NA	3,038.93
	07/11/19	110.59	95.29	NA	NA	3,039.21
	01/14/20	NM	95.15	NA	NA	3,039.35
	07/09/20	110.52	94.87	NA	NA	3,039.63
	01/06/21	110.58	95.01	NA	NA	3,039.49
	07/21/21	NM	94.76	NA	NA	3,039.74
44-J-2-MW						
3,135.30	06/13/06	109.87	91.83	NA	NA	3,043.47
	07/13/06	109.87	94.82	NA	NA	3,040.48
	08/15/06	110.00	94.97	NA	NA	3,040.33
	09/13/06	110.00	95.01	NA	NA	3,040.29
	09/20/06	110.00	94.97	NA	NA	3,040.33
	10/04/06	110.00	96.56	NA	NA	3,038.74
	12/08/06	114.32	95.14	NA	NA	3,040.16
	02/13/07	109.87	94.68	NA	NA	3,040.62
	02/28/07	NM	94.68	NA	NA	3,040.62
	07/30/07	109.87	94.82	NA	NA	3,040.48

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
	01/22/08	109.87	95.04	NA	NA	3,040.26
	07/09/08	109.87	95.10	NA	NA	3,040.20
	01/28/09	109.87	95.29	NA	NA	3,040.01
	08/28/09	109.00	95.37	NA	NA	3,039.93
	02/19/10	NM	94.56	NA	NA	3,040.74
	08/16/10	NM	95.04	NA	NA	3,040.26
	02/11/11	NM	94.99	NA	NA	3,040.31
	08/02/11	108.75	94.48	NA	NA	3,040.82
	08/15/12	108.80	94.99	NA	NA	3,040.31
	01/30/13	108.90	94.57	NA	NA	3,040.73
	07/30/13	109.00	94.61	NA	NA	3,040.69
	01/13/14	109.03	94.56	NA	NA	3,040.74
	07/14/14	109.02	94.65	NA	NA	3,040.65
	01/12/15	NM	94.68	NA	NA	3,040.62
	07/14/15	NM	94.43	NA	NA	3,040.87
	01/25/16	109.01	94.39	NA	NA	3,040.91
	07/20/16	NM	94.45	NA	NA	3,040.85
	01/12/17	NM	94.30	NA	NA	3,041.00
	07/13/17	NM	94.48	NA	NA	3,040.82
	01/12/18	NM	94.15	NA	NA	3,041.15
	07/02/18	NM	94.31	NA	NA	3,040.99
	01/09/19	NM	94.14	NA	NA	3,041.16
	07/11/19	108.70	93.94	NA	NA	3,041.36
	01/14/20	NM	93.85	NA	NA	3,041.45
	07/09/20	108.67	93.61	NA	NA	3,041.69
	01/06/21	108.69	93.66	NA	NA	3,041.64
	07/21/21	NM	93.53	NA	NA	3,041.77
44-J-3-MW						
3,135.25	07/13/06	113.00	96.77	NA	NA	3,038.48
	08/07/06	113.00	96.94	NA	NA	3,038.31
	08/15/06	113.00	96.98	NA	NA	3,038.27
	09/13/06	113.00	97.01	NA	NA	3,038.24
	09/20/06	113.00	95.96	NA	NA	3,039.29
	10/04/06	113.00	97.10	NA	NA	3,038.15
	12/08/06	120.40	97.04	NA	NA	3,038.21
	01/22/08	114.55	97.63	NA	NA	3,037.62
	08/28/09	114.60	97.97	NA	NA	3,037.28
	02/19/10	NM	97.21	NA	NA	3,038.04
	08/16/10	NM	97.20	NA	NA	3,038.05
	02/11/11	110.00	96.74	NA	NA	3,038.51
	08/02/11	114.71	96.27	NA	NA	3,038.98
	01/30/13	114.83	96.17	NA	NA	3,039.08
	07/30/13	114.55	96.22	NA	NA	3,039.03
	01/13/14	114.55	96.25	NA	NA	3,039.00
	07/14/14	114.51	96.23	NA	NA	3,039.02
	01/12/15	NM	96.30	NA	NA	3,038.95
	07/14/15	NM	96.01	NA	NA	3,039.24
3,140.19	01/25/16	114.59	96.02	NA	NA	3,044.17
	07/20/16	NM	96.03	NA	NA	3,044.16
	01/13/17	NM	95.94	NA	NA	3,044.25
	07/13/17	NM	96.05	NA	NA	3,044.14
	01/12/18	NM	95.72	NA	NA	3,044.47
	07/02/18	NM	95.87	NA	NA	3,044.32
	01/09/19	NM	95.66	NA	NA	3,044.53
	07/11/19	114.35	95.49	NA	NA	3,044.70
	01/14/20	NM	95.39	NA	NA	3,044.80

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
	07/09/20	114.42	95.15	NA	NA	3,045.04
	01/06/21	114.45	95.25	NA	NA	3,044.94
	07/21/21	NM	94.02	NA	NA	3,046.17
44-J-4-MW						
3,133.69	07/13/06	111.00	95.79	NA	NA	3,037.90
	08/07/06	111.00	95.97	NA	NA	3,037.72
	08/15/06	111.00	96.02	NA	NA	3,037.67
	09/13/06	111.00	96.04	NA	NA	3,037.65
	09/20/06	111.00	96.00	NA	NA	3,037.69
	10/04/06	111.00	96.11	NA	NA	3,037.58
	12/08/06	115.05	96.09	NA	NA	3,037.60
	01/22/08	113.40	96.77	NA	NA	3,036.92
	08/27/09	113.20	97.09	NA	NA	3,036.60
	02/19/10	NM	96.26	NA	NA	3,037.43
	08/16/10	NM	96.23	NA	NA	3,037.46
	02/11/11	110.00	95.74	NA	NA	3,037.95
	08/02/11	113.43	95.22	NA	NA	3,038.47
	01/30/13	113.25	95.14	NA	NA	3,038.55
	07/30/13	112.95	95.19	NA	NA	3,038.50
	01/13/14	112.93	95.22	NA	NA	3,038.47
	07/14/14	112.94	95.21	NA	NA	3,038.48
	01/12/15	NM	95.25	NA	NA	3,038.44
	07/14/15	NM	94.98	NA	NA	3,038.71
	01/25/16	112.98	94.98	NA	NA	3,038.71
	07/20/16	NM	95.03	NA	NA	3,038.66
	01/12/17	NM	94.92	NA	NA	3,038.77
	07/13/17	NM	95.03	NA	NA	3,038.66
	01/12/18	NM	94.71	NA	NA	3,038.98
	07/02/18	NM	94.87	NA	NA	3,038.82
	01/09/19	NM	94.62	NA	NA	3,039.07
	07/11/19	113.25	94.48	NA	NA	3,039.21
	01/14/20	NM	94.37	NA	NA	3,039.32
	07/09/20	113.30	94.13	NA	NA	3,039.56
	01/06/21	113.31	94.22	NA	NA	3,039.47
	07/21/21	NM	94.00	NA	NA	3,039.69
44-J-5-MW						
3,134.75	06/13/06	110.00	96.83	NA	NA	3,037.92
	07/13/06	110.00	96.83	NA	NA	3,037.92
	08/07/06	110.00	97.00	NA	NA	3,037.75
	08/15/06	110.00	97.01	NA	NA	3,037.74
	09/13/06	110.00	97.05	NA	NA	3,037.70
	09/20/06	110.00	97.02	NA	NA	3,037.73
	10/04/06	110.00	97.13	NA	NA	3,037.62
	12/08/06	117.61	97.13	NA	NA	3,037.62
	01/22/08	113.70	97.53	NA	NA	3,037.22
	08/27/09	113.60	97.88	NA	NA	3,036.87
	08/16/10	NM	97.23	NA	NA	3,037.52
	02/11/11	NM	96.84	NA	NA	3,037.91
	08/02/11	113.71	96.32	NA	NA	3,038.43
	01/30/13	113.70	96.23	NA	NA	3,038.52
	07/30/13	113.23	96.30	NA	NA	3,038.45
	01/13/14	113.25	96.33	NA	NA	3,038.42
	07/14/14	113.20	96.30	NA	NA	3,038.45
	01/12/15	NM	96.38	NA	NA	3,038.37
	07/14/15	NM	96.10	NA	NA	3,038.65
	01/25/16	113.26	96.10	NA	NA	3,038.65

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
	07/20/16	NM	96.14	NA	NA	3,038.61
	01/12/17	NM	96.02	NA	NA	3,038.73
	07/13/17	NM	96.16	NA	NA	3,038.59
	01/12/18	NM	95.80	NA	NA	3,038.95
	07/02/18	NM	95.98	NA	NA	3,038.77
	01/09/19	NM	95.81	NA	NA	3,038.94
	07/11/19	113.11	95.59	NA	NA	3,039.16
	01/14/20	NM	95.48	NA	NA	3,039.27
	07/09/20	113.67	95.24	NA	NA	3,039.51
	01/06/21	113.68	95.35	NA	NA	3,039.40
	07/21/21	NM	95.03	NA	NA	3,039.72
45-E-1-MW						
NM	09/12/06	NM	88.92	NA	NA	NA
	12/08/06	105.50	89.15	NA	NA	NA
	02/13/07	107.06	88.51	NA	NA	NA
	02/28/07	NM	88.51	NA	NA	NA
	07/30/07	107.06	88.95	NA	NA	NA
	01/22/08	107.06	90.04	NA	NA	NA
	07/09/08	107.06	89.31	NA	NA	NA
	01/28/09	107.06	89.31	NA	NA	NA
	08/27/09	102.95	89.72	NA	NA	NA
	08/16/10	NM	90.37	NA	NA	NA
	02/11/11	NM	90.36	NA	NA	NA
	08/02/11	103.00	89.70	NA	NA	NA
	01/25/16	103.31	90.58	NA	NA	NA
	07/20/16	NM	90.65	NA	NA	NA
	01/12/17	NM	90.20	NA	NA	NA
	07/13/17	NM	89.96	NA	NA	NA
	01/12/18	NM	88.74	NA	NA	NA
	07/02/18	NM	88.37	NA	NA	NA
	01/09/19	NM	87.95	NA	NA	NA
	07/11/19	102.23	87.66	NA	NA	NA
	01/14/20	NM	87.44	NA	NA	NA
	07/09/20	102.90	87.16	NA	NA	NA
	01/06/21	102.91	87.13	NA	NA	NA
	07/21/21	NM	88.90	NA	NA	NA
45-E-2-MW						
NM	09/12/06	NM	81.36	NA	NA	NA
	12/08/06	104.00	86.58	NA	NA	NA
	02/13/07	109.28	85.82	NA	NA	NA
	02/28/07	NM	85.82	NA	NA	NA
	07/30/07	109.28	86.49	NA	NA	NA
	01/22/08	109.28	86.58	NA	NA	NA
	07/09/08	109.28	86.86	NA	NA	NA
	01/28/09	109.28	86.79	NA	NA	NA
	08/26/09	104.20	87.28	NA	NA	NA
	08/16/10	NM	87.84	NA	NA	NA
	02/11/11	NM	88.03	NA	NA	NA
	08/02/11	104.25	87.21	NA	NA	NA
	08/15/12	104.23	87.82	NA	NA	NA
	01/25/16	104.48	88.34	NA	NA	NA
	07/20/16	NM	88.33	NA	NA	NA
	01/12/17	NM	87.93	NA	NA	NA
	07/13/17	NM	87.62	NA	NA	NA
	01/12/18	NM	86.23	NA	NA	NA
	07/02/18	NM	88.85	NA	NA	NA

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
	01/09/19	NM	85.41	NA	NA	NA
	07/11/19	104.10	85.11	NA	NA	NA
	01/14/20	NM	84.89	NA	NA	NA
	07/09/20	104.06	84.62	NA	NA	NA
	01/06/21	104.11	84.57	NA	NA	NA
	07/21/21	NM	84.33	NA	NA	NA
45-E-3-MW						
NM	02/13/07	107.95	88.68	NA	NA	NA
	02/28/07	NM	88.68	NA	NA	NA
	07/26/07	107.95	89.30	NA	NA	NA
	01/22/08	107.95	89.54	NA	NA	NA
	07/08/08	107.95	89.70	NA	NA	NA
	01/28/06	107.95	89.70	NA	NA	NA
	08/26/09	110.00	90.06	NA	NA	NA
	08/16/10	NM	90.63	NA	NA	NA
	02/11/11	107.00	90.74	NA	NA	NA
	08/02/11	107.91	90.19	NA	NA	NA
	07/20/16	NM	91.05	NA	NA	NA
	01/11/17	NM	90.50	NA	NA	NA
	07/13/17	NM	90.37	NA	NA	NA
	01/12/18	NM	89.35	NA	NA	NA
	07/02/18	NM	88.75	NA	NA	NA
	01/09/19	NM	88.41	NA	NA	NA
	07/11/19	107.18	88.13	NA	NA	NA
	01/15/20	NM	87.87	NA	NA	NA
	07/07/20	107.91	87.66	NA	NA	NA
	01/06/21	107.91	87.66	NA	NA	NA
	07/21/21	NM	87.41	NA	NA	NA
45-F-1-MW						
NM	06/13/06	108.19	90.99	NA	NA	NA
	09/12/06	NM	90.15	NA	NA	NA
	12/08/06	107.40	90.34	NA	NA	NA
	02/13/07	108.19	90.22	NA	NA	NA
	02/28/07	NM	90.02	NA	NA	NA
	07/30/07	108.19	90.22	NA	NA	NA
	01/22/08	108.19	90.52	NA	NA	NA
	07/09/08	108.19	90.63	NA	NA	NA
	01/28/09	108.19	90.81	NA	NA	NA
	08/27/09	106.80	90.93	NA	NA	NA
	08/16/10	NM	91.41	NA	NA	NA
	02/11/11	NM	91.52	NA	NA	NA
	08/02/11	107.03	91.15	NA	NA	NA
	08/15/12	108.02	91.40	NA	NA	NA
	01/30/13	106.82	91.29	NA	NA	NA
	07/30/13	107.90	91.70	NA	NA	NA
	01/14/13	107.94	91.71	NA	NA	NA
	07/14/14	107.87	91.53	NA	NA	NA
	01/12/15	NM	91.78	NA	NA	NA
	07/14/15	NM	91.62	NA	NA	NA
	01/25/16	107.90	91.72	NA	NA	NA
	07/20/16	NM	91.56	NA	NA	NA
	01/12/17	NM	91.40	NA	NA	NA
	07/13/17	NM	90.96	NA	NA	NA
	01/12/18	NM	90.44	NA	NA	NA
	07/02/18	NM	90.14	NA	NA	NA
	01/09/19	NM	89.78	NA	NA	NA

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
	07/11/19	106.79	89.49	NA	NA	NA
	01/14/20	NM	89.28	NA	NA	NA
	07/09/20	106.90	88.99	NA	NA	NA
	01/06/21	106.88	88.95	NA	NA	NA
	07/21/21	NM	88.74	NA	NA	NA
45-FF-MW						
3,122.70	06/13/06	111.19	90.57	NA	NA	3,032.13
	09/12/06	NM	90.77	NA	NA	3,031.93
	12/08/06	114.00	90.94	NA	NA	3,031.76
	02/13/07	111.19	90.58	NA	NA	3,032.12
	02/28/07	NM	90.58	NA	NA	3,032.12
	07/30/07	111.19	90.81	NA	NA	3,031.89
	01/22/08	111.19	91.16	NA	NA	3,031.54
	07/09/08	111.19	91.22	NA	NA	3,031.48
	01/28/09	111.19	91.16	NA	NA	3,031.54
	08/27/09	107.50	91.54	NA	NA	3,031.16
	08/16/10	NM	92.01	NA	NA	3,030.69
	02/11/11	NM	92.19	NA	NA	3,030.51
	08/02/11	111.11	91.71	NA	NA	3,030.99
	01/30/13	110.91	91.92	NA	NA	3,030.78
	07/30/13	110.50	92.30	NA	NA	3,030.40
	01/13/14	110.51	92.33	NA	NA	3,030.37
	07/14/14	110.48	92.02	NA	NA	3,030.68
	01/12/15	NM	92.41	NA	NA	3,030.29
	07/14/15	NM	92.30	NA	NA	3,030.40
	01/25/16	110.94	92.36	NA	NA	3,030.34
	07/20/16	NM	92.16	NA	NA	3,030.54
	01/12/17	NM	91.96	NA	NA	3,030.74
	07/13/17	NM	91.55	NA	NA	3,031.15
	01/12/18	NM	90.90	NA	NA	3,031.80
	07/02/18	NM	90.54	NA	NA	3,032.16
	01/09/19	NM	90.31	NA	NA	3,032.39
	07/11/19	110.16	89.90	NA	NA	3,032.80
	01/14/20	NM	89.70	NA	NA	3,033.00
	07/09/20	110.80	89.43	NA	NA	3,033.27
	01/06/21	110.83	89.38	NA	NA	3,033.32
	07/21/21	NM	89.14	NA	NA	3,033.56
58-B-1-MW						
3,100.59	06/14/06	NM	NM	NA	NA	NA
	09/12/06	NM	87.12	NA	NA	3,013.47
	12/08/06	106.20	87.06	NA	NA	3,013.53
	02/13/07	105.50	87.02	NA	NA	3,013.57
	02/28/07	NM	87.02	NA	NA	3,013.57
	07/26/07	105.50	87.37	NA	NA	3,013.22
	01/22/08	105.50	87.79	NA	NA	3,012.80
	07/08/08	105.50	87.67	NA	NA	3,012.92
	01/28/09	104.79	87.67	NA	NA	3,012.92
	08/26/09	104.80	87.77	NA	NA	3,012.82
	08/16/10	NM	87.88	NA	NA	3,012.71
	02/11/11	NM	87.43	NA	NA	3,013.16
	08/05/11	104.55	87.00	NA	NA	3,013.59
	08/15/12	104.59	88.12	NA	NA	3,012.47
	01/30/13	107.53	87.76	NA	NA	3,012.83
	07/30/13	104.50	88.56	NA	NA	3,012.03
	01/13/14	104.56	88.60	NA	NA	3,011.99
	07/14/14	104.47	87.92	NA	NA	3,012.67
	01/12/15	NM	88.38	NA	NA	3,012.21

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
	07/22/16	NM	87.70	NA	NA	3,012.89
	01/13/17	NM	87.20	NA	NA	3,013.39
	07/13/17	NM	86.71	NA	NA	3,013.88
	01/12/18	NM	85.34	NA	NA	3,015.25
	07/02/18	NM	86.12	NA	NA	3,014.47
	01/07/19	NM	85.76	NA	NA	3,014.83
	07/09/19	104.40	85.69	NA	NA	3,014.90
	01/14/20	NM	85.52	NA	NA	3,015.07
	07/08/20	104.43	85.33	NA	NA	3,015.26
	01/05/21	104.47	85.16	NA	NA	3,015.43
	07/21/21	NM	85.10	NA	NA	3,015.49
58-B-2-MW						
3,111.91	06/14/06	NM	NM	NA	NA	NA
	09/12/06	NM	85.80	NA	NA	3,026.11
	12/08/06	NM	85.60	NA	NA	3,026.31
	02/13/07	105.45	85.61	NA	NA	3,026.30
	02/28/07	NM	85.61	NA	NA	3,026.30
	07/26/07	105.45	85.88	NA	NA	3,026.03
	01/22/08	105.45	86.28	NA	NA	3,025.63
	07/08/08	105.45	86.16	NA	NA	3,025.75
	01/28/09	105.45	86.23	NA	NA	3,025.68
	08/26/09	104.50	86.33	NA	NA	3,025.58
	08/16/10	NM	86.42	NA	NA	3,025.49
	02/11/11	NM	86.11	NA	NA	3,025.80
	08/02/11	105.12	85.75	NA	NA	3,026.16
	08/15/12	105.43	86.70	NA	NA	3,025.21
	07/14/15	NM	88.61	NA	NA	3,023.30
	01/25/16	105.08	85.92	NA	NA	3,025.99
	07/22/16	NM	86.40	NA	NA	3,025.51
	01/13/17	NM	85.92	NA	NA	3,025.99
	07/13/17	NM	85.55	NA	NA	3,026.36
	01/12/18	NM	86.47	NA	NA	3,025.44
	07/02/18	NM	85.10	NA	NA	3,026.81
	01/07/19	NM	84.75	NA	NA	3,027.16
	07/09/19	104.47	84.67	NA	NA	3,027.24
	01/14/20	NM	84.52	NA	NA	3,027.39
	07/09/20	104.61	84.36	NA	NA	3,027.55
	01/05/21	104.66	84.14	NA	NA	3,027.77
	07/21/21	NM	84.12	NA	NA	3,027.79
58-B-3-MW						
3,108.46	02/13/07	100.75	89.48	NA	NA	3,018.98
	02/28/07	NM	89.48	NA	NA	3,018.98
	07/26/07	100.75	89.39	NA	NA	3,019.07
	01/22/08	100.75	89.71	NA	NA	3,018.75
	07/08/08	100.75	89.75	NA	NA	3,018.71
	01/28/09	100.75	89.81	NA	NA	3,018.65
	08/26/09	104.00	89.88	NA	NA	3,018.58
	08/16/10	NM	90.05	NA	NA	3,018.41
	02/11/11	102.00	90.02	NA	NA	3,018.44
	08/02/11	100.68	89.97	NA	NA	3,018.49
	08/15/12	100.73	90.11	NA	NA	3,018.35
	01/30/13	100.89	90.16	NA	NA	3,018.30
	07/30/13	100.80	90.24	NA	NA	3,018.22
	01/13/14	100.80	90.33	NA	NA	3,018.13
	07/14/14	100.79	90.39	NA	NA	3,018.07
	01/12/15	NM	89.80	NA	NA	3,018.66
	07/14/15	NM	90.06	NA	NA	3,018.40

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
	01/25/16	100.78	90.08	NA	NA	3,018.38
	07/22/16	NM	90.14	NA	NA	3,018.32
	01/10/17	NM	90.02	NA	NA	3,018.44
	07/13/17	NM	89.88	NA	NA	3,018.58
	01/12/18	NM	89.78	NA	NA	3,018.68
	07/02/18	NM	89.62	NA	NA	3,018.84
	01/07/19	NM	89.36	NA	NA	3,019.10
	07/09/19	100.68	89.37	NA	NA	3,019.09
	01/13/20	NM	89.23	NA	NA	3,019.23
	07/07/20	100.71	89.14	NA	NA	3,019.32
	01/05/21	100.73	89.08	NA	NA	3,019.38
	07/21/21	NM	89.03	NA	NA	3,019.43
MW-2						
3,204.56	8/7/2015	NM	104.07	NA	NA	3,100.49
	1/25/2016	109.14	109.05	NA	NA	3,095.51
	7/21/2016	NM	109.10	NA	NA	3,095.46
	1/12/2017	NM	109.20	NA	NA	3,095.36
	4/10/2017	109.71	DRY	NA	NA	DRY
	7/13/2017	NM	109.14	NA	NA	3,095.42
	10/3/2017	109.33	DRY	NA	NA	DRY
	1/12/2018	109.15	DRY	NA	NA	DRY
	4/2/2018	109.15	DRY	NA	NA	DRY
	07/02/18	109.15	DRY	NA	NA	DRY
	10/1/2018	109.58	DRY	NA	NA	DRY
	1/8/2019	109.70	DRY	NA	NA	DRY
	4/9/2019	109.45	DRY	NA	NA	DRY
	7/9/2019	109.14	DRY	NA	NA	DRY
	10/9/2019	NM	DRY	NA	NA	DRY
	1/16/2020	NM	DRY	NA	NA	DRY
	4/7/2020	109.11	DRY	NA	NA	DRY
	7/6/2020	109.09	DRY	NA	NA	DRY
	10/12//20	109.13	DRY	NA	NA	DRY
	1/6/2021	109.13	DRY	NA	NA	DRY
	07/22/21	109.20	DRY	NA	NA	DRY
MW-3						
3,199.51	8/7/2015	NM	112.88	NA	NA	3,086.63
	1/25/2016	119.30	112.95	NA	NA	3,086.56
	7/21/2016	NM	113.02	NA	NA	3,086.49
	1/11/2017	NM	112.95	NA	NA	3,086.56
	4/10/2017	NM	113.17	NA	NA	3,086.34
	7/13/2017	NM	113.04	NA	NA	3,086.47
	10/3/2017	NM	113.11	NA	NA	3,086.40
	1/12/2018	NM	113.04	NA	NA	3,086.47
	4/2/2018	NM	113.20	NA	NA	3,086.31
	07/02/18	NM	113.09	NA	NA	3,086.42
	10/1/2018	NM	113.14	NA	NA	3,086.37
	1/8/2019	NM	113.10	NA	NA	3,086.41
	4/9/2019	NM	113.13	NA	NA	3,086.38
	7/10/2019	119.39	113.19	NA	NA	3,086.32
	10/9/2019	NM	113.78	NA	NA	3,085.73
	1/16/2020	NM	113.29	NA	NA	3,086.22
	4/7/2020	119.44	113.24	NA	NA	3,086.27
	7/6/2020	119.38	113.28	NA	NA	3,086.23
	10/12/2020	119.39	113.30	NA	NA	3,086.21
	1/6/2021	119.39	113.37	NA	NA	3,086.14
	07/22/21	NM	113.36	NA	NA	3,086.15

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
MW-4						
3,189.69	8/7/2015	NM	115.53	NA	NA	3,074.16
	1/25/2016	116.91	115.60	NA	NA	3,074.09
	7/21/2016	NM	115.65	NA	NA	3,074.04
	1/11/2017	NM	115.55	NA	NA	3,074.14
	4/10/2017	117.74	115.67	NA	NA	3,074.02
	7/13/2017	NM	115.64	NA	NA	3,074.05
	10/3/2017	118.13	115.65	NA	NA	3,074.04
	1/12/2018	NM	115.60	NA	NA	3,074.09
	4/2/2018	NM	115.70	NA	NA	3,073.99
	07/02/18	NM	115.61	NA	NA	3,074.08
	10/1/2018	NM	115.72	NA	NA	3,073.97
	1/8/2019	NM	115.65	NA	NA	3,074.04
	4/9/2019	NM	115.70	NA	NA	3,073.99
	7/10/2019	116.93	115.74	NA	NA	3,073.95
	10/9/2019	NM	115.93	NA	NA	3,073.76
	1/16/2020	NM	115.86	NA	NA	3,073.83
	4/7/2020	117.55	115.76	NA	NA	3,073.93
	7/6/2020	117.04	115.80	NA	NA	3,073.89
	10/12/2020	117.06	115.85	NA	NA	3,073.84
	1/6/2021	117.06	115.85	NA	NA	3,073.84
	07/22/21	NM	115.91	NA	NA	3,073.78
MW-5						
3,174.43	8/7/2015	NM	102.74	NA	NA	3,071.69
	1/25/2016	116.91	102.78	NA	NA	3,071.65
	7/21/2016	NM	102.84	NA	NA	3,071.59
	1/11/2017	NM	102.80	NA	NA	3,071.63
	4/10/2017	116.95	102.85	NA	NA	3,071.58
	7/13/2017	NM	102.88	NA	NA	3,071.55
	10/3/2017	NM	102.91	NA	NA	3,071.52
	1/12/2018	NM	102.95	NA	NA	3,071.48
	4/2/2018	NM	102.94	NA	NA	3,071.49
	07/02/18	NM	102.93	NA	NA	3,071.50
	10/1/2018	NM	103.00	NA	NA	3,071.43
	1/8/2019	NM	102.90	NA	NA	3,071.53
	4/9/2019	NM	102.99	NA	NA	3,071.44
	7/10/2019	116.96	103.00	NA	NA	3,071.43
	10/9/2019	NM	103.02	NA	NA	3,071.41
	1/16/2020	NM	103.07	NA	NA	3,071.36
	4/7/2020	116.97	103.03	NA	NA	3,071.40
	7/6/2020	116.94	103.05	NA	NA	3,071.38
	10/12/2020	116.96	103.09	NA	NA	3,071.34
	1/7/2021	116.96	103.11	NA	NA	3,071.32
	07/22/21	NM	103.12	NA	NA	3,071.31
MW-6						
3,165.25	8/7/2015	NM	93.97	NA	NA	3,071.28
	1/25/2016	130.94	94.21	NA	NA	3,071.04
	7/21/2016	NM	94.28	NA	NA	3,070.97
	1/11/2017	NM	94.01	NA	NA	3,071.24
	4/10/2017	130.83	94.21	NA	NA	3,071.04
	7/13/2017	NM	94.11	NA	NA	3,071.14
	10/3/2017	NM	94.14	NA	NA	3,071.11
	1/12/2018	NM	93.80	NA	NA	3,071.45
	4/2/2018	NM	94.18	NA	NA	3,071.07
	07/02/18	NM	93.89	NA	NA	3,071.36
	10/1/2018	NM	93.90	NA	NA	3,071.35

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
	1/8/2019	NM	93.94	NA	NA	3,071.31
	4/9/2019	NM	93.74	NA	NA	3,071.51
	7/10/2019	128.94	93.92	NA	NA	3,071.33
	10/9/2019	NM	93.80	NA	NA	3,071.45
	1/15/2020	NM	94.01	NA	NA	3,071.24
	4/7/2020	130.92	93.99	NA	NA	3,071.26
	7/8/2020	130.89	94.03	NA	NA	3,071.22
	10/12/220	130.92	94.17	NA	NA	3,071.08
	1/7/2021	130.92	94.28	NA	NA	3,070.97
	07/22/21	NM	94.40	NA	NA	3,070.85
MW-7						
3,132.14	8/7/2015	NM	112.10	NA	NA	3,020.04
	1/25/2016	117.20	112.77	NA	NA	3,019.37
	7/21/2016	NM	114.50	NA	NA	3,017.64
	1/11/2017	NM	115.92	NA	NA	3,016.22
	4/10/2017	116.73	DRY	NA	NA	DRY
	7/13/2017	116.55	DRY	NA	NA	DRY
	10/3/2017	116.46	DRY	NA	NA	DRY
	1/12/2018	NM	DRY	NA	NA	DRY
	4/2/2018	116.66	DRY	NA	NA	DRY
	07/02/18	116.70	DRY	NA	NA	DRY
	10/1/2018	116.61	DRY	NA	NA	DRY
	1/8/2019	116.61	DRY	NA	NA	DRY
	4/5/2019	117.09	DRY	NA	NA	DRY
	7/10/2019	116.59	DRY	NA	NA	DRY
	10/8/2019	NM	DRY	NA	NA	DRY
	1/14/2020	NM	DRY	NA	NA	DRY
	4/7/2020	116.60	DRY	NA	NA	DRY
	7/8/2020	116.59	DRY	NA	NA	DRY
	10/12/2020	116.61	DRY	NA	NA	DRY
	1/5/2021	116.61	DRY	NA	NA	DRY
	07/21/21	116.69	DRY	NA	NA	DRY
MW-8						
3,107.34	8/7/2015	NM	85.03	NA	NA	3,022.31
	1/25/2016	110.98	85.46	NA	NA	3,021.88
	7/21/2016	NM	85.10	NA	NA	3,022.24
	1/13/2017	NM	84.95	NA	NA	3,022.39
	4/7/2017	110.98	85.00	NA	NA	3,022.34
	7/13/2017	NM	84.68	NA	NA	3,022.66
	10/3/2017	NM	84.86	NA	NA	3,022.48
	1/12/2018	NM	84.75	NA	NA	3,022.59
	4/2/2018	NM	85.20	NA	NA	3,022.14
	07/02/18	NM	85.09	NA	NA	3,022.25
	10/1/2018	NM	84.83	NA	NA	3,022.51
	1/8/2019	NM	84.81	NA	NA	3,022.53
	4/5/2019	NM	84.52	NA	NA	3,022.82
	7/9/2019	110.97	84.45	NA	NA	3,022.89
	10/8/2019	NM	84.33	NA	NA	3,023.01
	1/14/2020	NM	84.42	NA	NA	3,022.92
	4/7/2020	111.00	84.35	NA	NA	3,022.99
	7/8/2020	110.97	84.23	NA	NA	3,023.11
	10/12/2020	110.97	84.26	NA	NA	3,023.08
	1/5/2021	110.98	84.25	NA	NA	3,023.09
	4/6/2021	110.98	83.91	NA	NA	3,023.43
	07/21/21	NM	84.33	NA	NA	3,023.01

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Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
MW-9						
3,103.82	8/7/2015	NM	85.68	NA	NA	3,018.14
	1/25/2016	105.30	85.87	NA	NA	3,017.95
	7/21/2016	NM	85.80	NA	NA	3,018.02
	1/13/2017	NM	85.76	NA	NA	3,018.06
	4/7/2017	105.28	85.65	NA	NA	3,018.17
	7/13/2017	NM	85.50	NA	NA	3,018.32
	10/3/2017	NM	85.53	NA	NA	3,018.29
	1/12/2018	NM	85.38	NA	NA	3,018.44
	4/2/2018	NM	85.73	NA	NA	3,018.09
	07/02/18	NM	85.24	NA	NA	3,018.58
	10/1/2018	NM	85.24	NA	NA	3,018.58
	1/7/2019	NM	85.05	NA	NA	3,018.77
	4/5/2019	NM	85.09	NA	NA	3,018.73
	7/9/2019	102.06	85.02	NA	NA	3,018.80
	10/8/2019	NM	84.93	NA	NA	3,018.89
	1/15/2020	NM	85.02	NA	NA	3,018.80
	4/7/2020	101.63	84.91	NA	NA	3,018.91
	7/8/2020	101.65	84.85	NA	NA	3,018.97
	10/12/2020	101.66	84.82	NA	NA	3,019.00
	1/5/2021	101.63	84.75	NA	NA	3,019.07
	4/6/2021	101.63	84.65	NA	NA	3,019.17
	07/21/21	NM	84.73	NA	NA	3,019.09
MW-10						
3,139.71	8/7/2015	NM	97.21	NA	NA	3,042.50
	1/25/2016	116.50	97.33	NA	NA	3,042.38
	7/20/2016	NM	97.18	NA	NA	3,042.53
	1/12/2017	NM	97.21	NA	NA	3,042.50
	4/7/2017	116.36	97.22	NA	NA	3,042.49
	7/13/2017	NM	97.12	NA	NA	3,042.59
	10/3/2017	NM	97.35	NA	NA	3,042.36
	1/12/2018	NM	97.30	NA	NA	3,042.41
	4/2/2018	NM	97.41	NA	NA	3,042.30
	07/02/18	NM	97.24	NA	NA	3,042.47
	10/1/2018	NM	97.35	NA	NA	3,042.36
	1/8/2019	NM	97.35	NA	NA	3,042.36
	4/5/2019	NM	97.22	NA	NA	3,042.49
	7/9/2019	116.65	97.22	NA	NA	3,042.49
	10/8/2019	NM	97.12	NA	NA	3,042.59
	1/15/2020	NM	97.32	NA	NA	3,042.39
	4/7/2020	116.38	97.17	NA	NA	3,042.54
	7/8/2020	116.36	97.14	NA	NA	3,042.57
	10/12/2020	116.36	97.19	NA	NA	3,042.52
	1/7/2021	116.39	97.17	NA	NA	3,042.54
	07/22/21	NM	97.17	NA	NA	3,042.54
MW-11						
3,156.65	8/7/2015	NM	102.00	NA	NA	3,054.65
	1/25/2016	110.23	102.08	NA	NA	3,054.57
	7/21/2016	NM	102.16	NA	NA	3,054.49
	1/11/2017	NM	102.10	NA	NA	3,054.55
	4/10/2017	110.02	102.22	NA	NA	3,054.43
	7/13/2017	NM	102.22	NA	NA	3,054.43
	10/3/2017	NM	102.28	NA	NA	3,054.37
	1/12/2018	NM	102.18	NA	NA	3,054.47
	4/2/2018	NM	102.39	NA	NA	3,054.26
	07/02/18	NM	102.28	NA	NA	3,054.37

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Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
	10/1/2018	NM	102.35	NA	NA	3,054.30
	1/8/2019	NM	102.35	NA	NA	3,054.30
	4/9/2019	NM	102.45	NA	NA	3,054.20
	7/10/2019	110.03	102.41	NA	NA	3,054.24
	10/9/2019	NM	102.36	NA	NA	3,054.29
	1/15/2020	NM	102.47	NA	NA	3,054.18
	4/7/2020	110.09	102.45	NA	NA	3,054.20
	7/8/2020	110.03	102.44	NA	NA	3,054.21
	10/12/2020	110.02	102.54	NA	NA	3,054.11
	1/7/2021	110.04	102.59	NA	NA	3,054.06
	07/22/21	NM	102.63	NA	NA	3,054.02
MW-12						
3,151.33	8/7/2015	NM	94.70	NA	NA	3,056.63
	1/25/2016	114.18	94.68	NA	NA	3,056.65
	7/20/2016	NM	94.69	NA	NA	3,056.64
	1/11/2017	NM	94.70	NA	NA	3,056.63
	4/7/2017	114.15	94.66	NA	NA	3,056.67
	7/13/2017	NM	94.60	NA	NA	3,056.73
	10/3/2017	NM	94.87	NA	NA	3,056.46
	1/12/2018	NM	94.66	NA	NA	3,056.67
	4/2/2018	NM	94.74	NA	NA	3,056.59
	07/02/18	NM	94.71	NA	NA	3,056.62
	10/1/2018	NM	94.87	NA	NA	3,056.46
	1/8/2019	NM	94.92	NA	NA	3,056.41
	4/10/2019	NM	94.75	NA	NA	3,056.58
	7/9/2019	114.14	94.85	NA	NA	3,056.48
	10/8/2019	NM	94.71	NA	NA	3,056.62
	1/15/2020	NM	94.97	NA	NA	3,056.36
	4/7/2020	114.16	94.85	NA	NA	3,056.48
	7/8/2020	114.14	94.85	NA	NA	3,056.48
	10/12/2020	114.14	94.97	NA	NA	3,056.36
	1/7/2021	114.14	94.95	NA	NA	3,056.38
	07/22/21	NM	95.07	NA	NA	3,056.26
MW-13						
3,168.41	8/7/2015	NM	98.61	NA	NA	3,069.80
	1/25/2016	127.85	98.88	NA	NA	3,069.53
	7/21/2016	NM	98.78	NA	NA	3,069.63
	1/11/2017	NM	98.49	NA	NA	3,069.92
	4/10/2017	127.90	98.70	NA	NA	3,069.71
	7/13/2017	NM	98.60	NA	NA	3,069.81
	10/3/2017	NM	98.70	NA	NA	3,069.71
	1/12/2018	NM	98.61	NA	NA	3,069.80
	4/2/2018	NM	98.80	NA	NA	3,069.61
	07/02/18	NM	98.74	NA	NA	3,069.67
	10/1/2018	NM	98.88	NA	NA	3,069.53
	1/8/2019	NM	98.90	NA	NA	3,069.51
	4/10/2019	NM	98.83	NA	NA	3,069.58
	7/10/2019	127.89	98.88	NA	NA	3,069.53
	10/9/2019	NM	98.94	NA	NA	3,069.47
	1/16/2020	NM	98.99	NA	NA	3,069.42
	4/8/2020	127.95	98.89	NA	NA	3,069.52
	7/6/2020	127.86	98.95	NA	NA	3,069.46
	10/12/2020	127.89	99.01	NA	NA	3,069.40
	1/6/2021	127.89	99.09	NA	NA	3,069.32
	07/22/21	NM	99.08	NA	NA	3,069.33

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Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
MW-14						
3,182.69	8/7/2015	NM	106.69	NA	NA	3,076.00
	1/25/2016	124.62	106.78	NA	NA	3,075.91
	7/21/2016	NM	106.90	NA	NA	3,075.79
	1/11/2017	NM	106.78	NA	NA	3,075.91
	4/10/2017	124.48	107.01	NA	NA	3,075.68
	7/13/2017	NM	106.88	NA	NA	3,075.81
	10/3/2017	NM	106.95	NA	NA	3,075.74
	1/12/2018	NM	106.85	NA	NA	3,075.84
	4/2/2018	NM	107.00	NA	NA	3,075.69
	07/02/18	NM	106.91	NA	NA	3,075.78
	10/1/2018	NM	106.98	NA	NA	3,075.71
	1/8/2019	NM	106.97	NA	NA	3,075.72
	4/9/2019	NM	106.96	NA	NA	3,075.73
	7/10/2019	124.43	107.00	NA	NA	3,075.69
	10/9/2019	NM	106.96	NA	NA	3,075.73
	1/16/2020	NM	107.06	NA	NA	3,075.63
	4/8/2020	124.43	106.99	NA	NA	3,075.70
	7/6/2020	124.47	107.02	NA	NA	3,075.67
	10/12/2020	124.48	107.05	NA	NA	3,075.64
	1/6/2021	124.48	107.06	NA	NA	3,075.63
	07/22/21	NM	107.13	NA	NA	3,075.56
MW-15						
3,184.55	8/7/2015	NM	104.29	NA	NA	3,080.26
	1/25/2016	126.36	104.56	NA	NA	3,079.99
	7/21/2016	NM	104.60	NA	NA	3,079.95
	1/11/2017	NM	104.45	NA	NA	3,080.10
	4/10/2017	NM	104.76	NA	NA	3,079.79
	7/13/2017	NM	104.52	NA	NA	3,080.03
	10/3/2017	NM	104.66	NA	NA	3,079.89
	1/12/2018	NM	104.45	NA	NA	3,080.10
	4/2/2018	NM	104.63	NA	NA	3,079.92
	07/02/18	NM	104.56	NA	NA	3,079.99
	10/1/2018	NM	104.57	NA	NA	3,079.98
	1/8/2019	NM	104.54	NA	NA	3,080.01
	4/10/2019	NM	104.50	NA	NA	3,080.05
	7/10/2019	126.59	104.49	NA	NA	3,080.06
	10/9/2019	NM	104.35	NA	NA	3,080.20
	1/16/2020	NM	104.51	NA	NA	3,080.04
	4/8/2020	126.64	104.42	NA	NA	3,080.13
	7/6/2020	126.61	104.43	NA	NA	3,080.12
	10/12/2020	126.61	104.44	NA	NA	3,080.11
	1/6/2021	126.61	104.51	NA	NA	3,080.04
	07/22/21	NM	104.37	NA	NA	3,080.18
MW-16						
3,167.93	8/7/2015	NM	99.76	NA	NA	3,068.17
	1/25/2016	119.30	99.86	NA	NA	3,068.07
	7/21/2016	NM	100.02	NA	NA	3,067.91
	1/11/2017	NM	99.88	NA	NA	3,068.05
	4/10/2017	119.07	100.03	NA	NA	3,067.90
	7/13/2017	NM	99.94	NA	NA	3,067.99
	10/3/2017	NM	100.01	NA	NA	3,067.92
	1/12/2018	NM	99.83	NA	NA	3,068.10
	4/2/2018	NM	99.97	NA	NA	3,067.96
	07/02/18	NM	99.92	NA	NA	3,068.01
	10/1/2018	NM	99.93	NA	NA	3,068.00

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Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
	1/8/2019	NM	99.86	NA	NA	3,068.07
	4/10/2019	NM	99.86	NA	NA	3,068.07
	7/10/2019	119.06	99.83	NA	NA	3,068.10
	10/9/2019	NM	99.72	NA	NA	3,068.21
	1/16/2020	NM	99.80	NA	NA	3,068.13
	4/8/2020	119.10	99.70	NA	NA	3,068.23
	7/6/2020	119.05	99.72	NA	NA	3,068.21
	10/12/2020	119.06	99.73	NA	NA	3,068.20
	1/6/2021	119.06	99.72	NA	NA	3,068.21
	07/22/21	NM	99.67	NA	NA	3,068.26
MW-17						
3,147.44	8/7/2015	NM	83.74	NA	NA	3,063.70
	1/25/2016	118.27	84.18	NA	NA	3,063.26
	7/20/2016	NM	82.79	NA	NA	3,064.65
	1/11/2017	NM	83.75	NA	NA	3,063.69
	4/10/2017	118.26	84.27	NA	NA	3,063.17
	7/13/2017	NM	84.06	NA	NA	3,063.38
	10/3/2017	NM	84.08	NA	NA	3,063.36
	1/12/2018	NM	83.79	NA	NA	3,063.65
	4/2/2018	NM	84.26	NA	NA	3,063.18
	07/02/18	NM	84.32	NA	NA	3,063.12
	10/1/2018	NM	84.41	NA	NA	3,063.03
	1/8/2019	NM	84.25	NA	NA	3,063.19
	4/10/2019	NM	84.02	NA	NA	3,063.42
	7/10/2019	118.20	84.15	NA	NA	3,063.29
	10/9/2019	NM	84.09	NA	NA	3,063.35
	1/16/2020	NM	84.24	NA	NA	3,063.20
	4/8/2020	118.34	84.15	NA	NA	3,063.29
	7/6/2020	118.31	84.28	NA	NA	3,063.16
	10/12/2020	118.32	84.36	NA	NA	3,063.08
	1/7/2021	118.32	84.48	NA	NA	3,062.96
	07/22/21	NM	84.61	NA	NA	3,062.83
MW-18						
3,155.01	8/7/2015	NM	95.94	NA	NA	3,059.07
	1/25/2016	122.40	95.81	NA	NA	3,059.20
	7/20/2016	NM	95.91	NA	NA	3,059.10
	1/12/2017	NM	95.82	NA	NA	3,059.19
	4/7/2017	122.37	95.76	NA	NA	3,059.25
	7/13/2017	NM	95.67	NA	NA	3,059.34
	10/3/2017	NM	95.87	NA	NA	3,059.14
	1/12/2018	NM	95.72	NA	NA	3,059.29
	4/2/2018	NM	95.80	NA	NA	3,059.21
	07/02/18	NM	95.74	NA	NA	3,059.27
	10/1/2018	NM	95.90	NA	NA	3,059.11
	1/8/2019	NM	95.88	NA	NA	3,059.13
	4/9/2019	NM	95.76	NA	NA	3,059.25
	7/10/2019	122.35	95.89	NA	NA	3,059.12
	10/9/2019	NM	95.84	NA	NA	3,059.17
	1/15/2020	NM	95.92	NA	NA	3,059.09
	4/7/2020	122.47	95.83	NA	NA	3,059.18
	7/8/2020	122.33	95.81	NA	NA	3,059.20
	10/12/2020	122.35	95.96	NA	NA	3,059.05
	1/7/2021	122.36	95.96	NA	NA	3,059.05
	07/22/21	NM	96.08	NA	NA	3,058.93

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Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
MW-19						
3,149.90	8/7/2015	NM	99.58	NA	NA	3,050.32
	1/25/2016	115.04	99.68	NA	NA	3,050.22
	7/20/2016	NM	99.78	NA	NA	3,050.12
	1/12/2017	NM	99.68	NA	NA	3,050.22
	4/7/2017	115.03	99.78	NA	NA	3,050.12
	7/13/2017	NM	99.61	NA	NA	3,050.29
	10/3/2017	NM	99.83	NA	NA	3,050.07
	1/12/2018	NM	99.63	NA	NA	3,050.27
	4/2/2018	NM	99.69	NA	NA	3,050.21
	07/02/18	NM	99.85	NA	NA	3,050.05
	10/1/2018	NM	99.75	NA	NA	3,050.15
	1/8/2019	NM	99.78	NA	NA	3,050.12
	4/9/2019	NM	99.56	NA	NA	3,050.34
	7/10/2019	114.99	99.69	NA	NA	3,050.21
	10/9/2019	NM	99.54	NA	NA	3,050.36
	1/15/2020	NM	99.67	NA	NA	3,050.23
	4/7/2020	115.01	99.56	NA	NA	3,050.34
	7/8/2020	115.00	99.48	NA	NA	3,050.42
	10/12/2020	115.01	99.58	NA	NA	3,050.32
	1/7/2021	115.01	99.59	NA	NA	3,050.31
	07/22/21	NM	99.58	NA	NA	3,050.32
MW-20						
3,120.09	8/7/2015	NM	88.96	NA	NA	3,031.13
	1/25/2016	112.91	88.96	NA	NA	3,031.13
	7/20/2016	NM	89.07	NA	NA	3,031.02
	1/12/2017	NM	89.00	NA	NA	3,031.09
	4/7/2017	112.65	88.97	NA	NA	3,031.12
	7/13/2017	NM	88.76	NA	NA	3,031.33
	10/3/2017	NM	88.88	NA	NA	3,031.21
	1/12/2018	NM	88.75	NA	NA	3,031.34
	4/2/2018	NM	88.67	NA	NA	3,031.42
	07/02/18	NM	88.69	NA	NA	3,031.40
	10/1/2018	NM	88.59	NA	NA	3,031.50
	1/8/2019	NM	88.57	NA	NA	3,031.52
	4/5/2019	NM	88.37	NA	NA	3,031.72
	7/9/2019	112.53	88.31	NA	NA	3,031.78
	10/8/2019	NM	88.19	NA	NA	3,031.90
	1/14/2020	NM	88.27	NA	NA	3,031.82
	4/7/2020	112.51	88.15	NA	NA	3,031.94
	7/9/2020	112.53	88.07	NA	NA	3,032.02
	10/12/2020	112.55	88.09	NA	NA	3,032.00
	1/7/2021	112.55	88.03	NA	NA	3,032.06
	07/21/21	NM	87.87	NA	NA	3,032.22

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
MW-21						
3,159.65	7/21/2016	NM	92.31	NA	NA	3,067.34
	1/12/2017	NM	92.41	NA	NA	3,067.24
	4/10/2017	123.74	92.65	NA	NA	3,067.00
	7/13/2017	NM	92.55	NA	NA	3,067.10
	10/3/2017	NM	92.65	NA	NA	3,067.00
	1/12/2018	NM	92.47	NA	NA	3,067.18
	4/2/2018	NM	92.64	NA	NA	3,067.01
	07/02/18	NM	92.65	NA	NA	3,067.00
	10/1/2018	NM	92.74	NA	NA	3,066.91
	1/8/2019	NM	92.73	NA	NA	3,066.92
	4/10/2019	NM	92.64	NA	NA	3,067.01
	7/10/2019	123.75	92.70	NA	NA	3,066.95
	10/9/2019	NM	92.61	NA	NA	3,067.04
	1/16/2020	NM	92.80	NA	NA	3,066.85
	4/8/2020	123.76	92.65	NA	NA	3,067.00
	7/6/2020	123.75	92.72	NA	NA	3,066.93
	10/12/2020	123.75	92.78	NA	NA	3,066.87
	1/7/2021	123.75	92.72	NA	NA	3,066.93
	07/22/21	NM	92.87	NA	NA	3,066.78
MW-22						
3,152.50	4/10/2017	117.94	87.78	NA	NA	3,064.72
	7/13/2017	NM	87.64	NA	NA	3,064.86
	10/3/2017	NM	87.71	NA	NA	3,064.79
	1/12/2018	NM	87.50	NA	NA	3,065.00
	4/2/2018	NM	87.75	NA	NA	3,064.75
	07/02/18	NM	87.75	NA	NA	3,064.75
	10/1/2018	NM	87.85	NA	NA	3,064.65
	1/8/2019	NM	87.90	NA	NA	3,064.60
	4/10/2019	NM	87.79	NA	NA	3,064.71
	7/10/2019	114.81	87.93	NA	NA	3,064.57
	10/9/2019	NM	87.80	NA	NA	3,064.70
	1/16/2020	NM	88.03	NA	NA	3,064.47
	4/8/2020	117.15	87.91	NA	NA	3,064.59
	7/6/2020	117.24	87.99	NA	NA	3,064.51
	10/12/2020	117.23	88.04	NA	NA	3,064.46
	1/7/2021	117.14	88.11	NA	NA	3,064.39
	07/22/21	NM	88.24	NA	NA	3,064.26
MW-23						
3,151.66	7/21/2016	NM	87.03	NA	NA	3,064.63
	1/11/2017	NM	86.74	NA	NA	3,064.92
	4/10/2017	124.94	87.02	NA	NA	3,064.64
	7/13/2017	NM	86.86	NA	NA	3,064.80
	10/3/2017	NM	86.95	NA	NA	3,064.71
	1/12/2018	NM	86.75	NA	NA	3,064.91
	4/2/2018	NM	86.98	NA	NA	3,064.68
	07/02/18	NM	86.98	NA	NA	3,064.68
	10/1/2018	NM	87.08	NA	NA	3,064.58
	1/8/2019	NM	87.17	NA	NA	3,064.49
	4/10/2019	NM	87.02	NA	NA	3,064.64
	7/10/2019	104.97	87.12	NA	NA	3,064.54
	10/9/2019	NM	87.06	NA	NA	3,064.60
	1/16/2020	NM	87.26	NA	NA	3,064.40
	4/8/2020	124.89	87.12	NA	NA	3,064.54
	7/6/1930	124.88	87.21	NA	NA	3,064.45
	10/12/2020	124.91	87.26	NA	NA	3,064.40

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
	1/7/2021	124.93	87.34	NA	NA	3,064.32
	07/22/21	NM	87.47	NA	NA	3,064.19
MW-24						
3,144.88	7/20/2016	NM	95.02	NA	NA	3,049.86
	1/12/2017	NM	95.11	NA	NA	3,049.77
	4/7/2017	115.39	95.15	NA	NA	3,049.73
	7/13/2017	NM	95.11	NA	NA	3,049.77
	10/3/2017	NM	95.33	NA	NA	3,049.55
	1/12/2018	NM	95.18	NA	NA	3,049.70
	4/2/2018	NM	95.23	NA	NA	3,049.65
	07/02/18	NM	95.12	NA	NA	3,049.76
	10/1/2018	NM	95.25	NA	NA	3,049.63
	1/8/2019	NM	95.22	NA	NA	3,049.66
	4/9/2019	NM	95.05	NA	NA	3,049.83
	7/9/2019	115.43	95.08	NA	NA	3,049.80
	10/8/2019	NM	95.03	NA	NA	3,049.85
	1/15/2020	NM	95.19	NA	NA	3,049.69
	4/7/2020	115.46	95.06	NA	NA	3,049.82
	7/8/2020	115.42	95.10	NA	NA	3,049.78
	10/12/2020	115.43	95.24	NA	NA	3,049.64
	1/7/2021	115.44	95.24	NA	NA	3,049.64
	07/22/21	NM	95.28	NA	NA	3,049.60
MW-25						
3,165.45	7/21/2016	NM	103.05	NA	NA	3,062.40
	1/11/2017	NM	103.00	NA	NA	3,062.45
	4/10/2017	116.81	103.26	NA	NA	3,062.19
	7/13/2017	NM	103.17	NA	NA	3,062.28
	10/3/2017	NM	103.20	NA	NA	3,062.25
	1/12/2018	NM	103.04	NA	NA	3,062.41
	4/2/2018	NM	103.50	NA	NA	3,061.95
	07/02/18	NM	103.29	NA	NA	3,062.16
	10/1/2018	NM	103.34	NA	NA	3,062.11
	1/8/2019	NM	103.39	NA	NA	3,062.06
	4/9/2019	NM	103.28	NA	NA	3,062.17
	7/10/2019	116.79	103.38	NA	NA	3,062.07
	10/9/2019	NM	103.31	NA	NA	3,062.14
	1/15/2020	NM	103.45	NA	NA	3,062.00
	4/7/2020	116.81	103.41	NA	NA	3,062.04
	7/8/2020	116.82	103.44	NA	NA	3,062.01
	10/12/2020	116.83	103.49	NA	NA	3,061.96
	1/7/2021	116.84	103.56	NA	NA	3,061.89
	07/22/21	NM	103.63	NA	NA	3,061.82
MW-26						
3,136.99	1/12/2017	NM	93.78	NA	NA	3,043.21
	4/7/2017	108.41	93.83	NA	NA	3,043.16
	7/13/2017	NM	93.75	NA	NA	3,043.24
	10/3/2017	NM	94.00	NA	NA	3,042.99
	1/12/2018	NM	93.76	NA	NA	3,043.23
	4/2/2018	NM	93.89	NA	NA	3,043.10
	07/02/18	NM	94.00	NA	NA	3,042.99
	10/1/2018	NM	93.91	NA	NA	3,043.08
	1/6/2019	NM	93.88	NA	NA	3,043.11
	4/9/2019	NM	93.74	NA	NA	3,043.25
	7/9/2019	108.37	93.76	NA	NA	3,043.23
	10/8/2019	NM	93.61	NA	NA	3,043.38
	1/15/2020	NM	93.84	NA	NA	3,043.15

Appendix A

Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
	4/7/2020	108.41	93.71	NA	NA	3,043.28
	7/8/2020	108.40	93.66	NA	NA	3,043.33
	10/12/2020	108.29	93.74	NA	NA	3,043.25
	1/7/2021	108.29	93.74	NA	NA	3,043.25
	07/22/21	NM	93.71	NA	NA	3,043.28
MW-27						
3,126.99	7/20/2016	NM	91.61	NA	NA	3,035.38
	1/11/2017	NM	91.40	NA	NA	3,035.59
	4/7/2017	108.40	91.65	NA	NA	3,035.34
	7/13/2017	NM	91.60	NA	NA	3,035.39
	10/3/2017	NM	91.80	NA	NA	3,035.19
	1/12/2018	NM	91.78	NA	NA	3,035.21
	4/2/2018	NM	92.08	NA	NA	3,034.91
	07/02/18	NM	91.98	NA	NA	3,035.01
	10/1/2018	NM	92.07	NA	NA	3,034.92
	1/8/2019	NM	91.86	NA	NA	3,035.13
	4/5/2019	NM	91.70	NA	NA	3,035.29
	7/9/2019	108.04	91.66	NA	NA	3,035.33
	10/8/2019	NM	91.50	NA	NA	3,035.49
	1/14/2020	NM	91.50	NA	NA	3,035.49
	4/7/2020	108.48	91.42	NA	NA	3,035.57
	7/8/2020	108.39	91.35	NA	NA	3,035.64
	10/12/2020	108.40	91.39	NA	NA	3,035.60
	1/7/2021	108.41	91.38	NA	NA	3,035.61
	07/21/21	NM	91.35	NA	NA	3,035.64
MW-28						
3,093.86	1/10/2017	NM	83.60	NA	NA	3,010.26
	4/7/2017	104.02	83.74	NA	NA	3,010.12
	7/13/2017	NM	83.78	NA	NA	3,010.08
	10/3/2017	NM	83.79	NA	NA	3,010.07
	1/12/2018	NM	83.84	NA	NA	3,010.02
	4/2/2018	NM	83.84	NA	NA	3,010.02
	07/02/18	NM	83.89	NA	NA	3,009.97
	10/1/2018	NM	83.62	NA	NA	3,010.24
	1/9/2019	NM	83.79	NA	NA	3,010.07
	4/9/2019	NM	83.89	NA	NA	3,009.97
	7/9/2019	103.95	83.93	NA	NA	3,009.93
	10/8/2019	NM	83.93	NA	NA	3,009.93
	1/15/2020	NM	83.94	NA	NA	3,009.92
	4/7/2020	104.04	83.89	NA	NA	3,009.97
	7/8/2020	104.04	83.95	NA	NA	3,009.91
	10/8/2020	104.02	83.94	NA	NA	3,009.92
	1/5/2021	104.04	83.95	NA	NA	3,009.91
	4/6/2021	104.04	83.83	NA	NA	3,010.03
	07/21/21	NM	83.97	NA	NA	3,009.89
MW-29						
3,098.60	1/10/2017	NM	99.85	NA	NA	2,998.75
	4/7/2017	113.55	99.97	NA	NA	2,998.63
	7/13/2017	NM	100.00	NA	NA	2,998.60
	10/3/2017	NM	99.95	NA	NA	2,998.65
	1/12/2018	NM	100.08	NA	NA	2,998.52
	4/2/2018	NM	100.17	NA	NA	2,998.43
	07/02/18	NM	100.16	NA	NA	2,998.44
	10/1/2018	NM	100.11	NA	NA	2,998.49
	1/7/2019	NM	100.04	NA	NA	2,998.56
	4/5/2019	NM	100.21	NA	NA	2,998.39

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Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
	7/9/2019	113.41	100.25	NA	NA	2,998.35
	10/8/2019	NM	100.22	NA	NA	2,998.38
	1/15/2020	NM	100.30	NA	NA	2,998.30
	4/7/2020	113.50	100.31	NA	NA	2,998.29
	7/8/2020	113.42	100.29	NA	NA	2,998.31
	10/8/2020	113.42	100.26	NA	NA	2,998.34
	1/5/2021	113.43	100.28	NA	NA	2,998.32
	4/6/2021	113.43	100.15	NA	NA	2,998.45
	07/21/21	NM	100.37	NA	NA	2,998.23
MW-30						
3,170.95	7/13/2017	NM	103.41	NA	NA	3,067.54
	10/3/2017	NM	103.57	NA	NA	3,067.38
	1/12/2018	NM	103.19	NA	NA	3,067.76
	4/2/2018	NM	103.71	NA	NA	3,067.24
	07/02/18	NM	103.46	NA	NA	3,067.49
	10/1/2018	NM	103.58	NA	NA	3,067.37
	1/8/2019	NM	103.67	NA	NA	3,067.28
	4/10/2019	NM	103.52	NA	NA	3,067.43
	7/10/2019	123.89	103.66	NA	NA	3,067.29
	10/9/2019	NM	103.48	NA	NA	3,067.47
	1/16/2020	NM	103.92	NA	NA	3,067.03
	4/8/2020	123.89	103.67	NA	NA	3,067.28
	7/6/2020	123.89	103.73	NA	NA	3,067.22
	10/12/2020	123.91	103.78	NA	NA	3,067.17
	1/7/2021	123.92	103.83	NA	NA	3,067.12
	07/22/21	NM	103.94	NA	NA	3,067.01
MW-31						
3,145.41	7/13/2017	NM	94.50	NA	NA	3,050.91
	10/3/2017	NM	94.74	NA	NA	3,050.67
	1/12/2018	NM	94.60	NA	NA	3,050.81
	4/2/2018	NM	94.60	NA	NA	3,050.81
	07/02/18	NM	94.50	NA	NA	3,050.91
	10/1/2018	NM	94.62	NA	NA	3,050.79
	1/8/2019	NM	94.59	NA	NA	3,050.82
	4/5/2019	NM	94.42	NA	NA	3,050.99
	7/9/2019	102.57	94.46	NA	NA	3,050.95
	10/8/2019	NM	94.40	NA	NA	3,051.01
	1/16/2020	NM	94.60	NA	NA	3,050.81
	4/7/2020	102.77	94.44	NA	NA	3,050.97
	7/8/2020	102.74	94.48	NA	NA	3,050.93
	10/12/2020	102.79	94.63	NA	NA	3,050.78
	1/7/2021	102.75	94.63	NA	NA	3,050.78
	07/22/21	NM	94.70	NA	NA	3,050.71
MW-32						
3,090.28	4/10/2019	94.04	81.18	NA	NA	3,009.10
	7/9/2019	93.44	81.39	NA	NA	3,008.89
	10/8/2019	NM	81.42	NA	NA	3,008.86
	1/15/2020	NM	81.45	NA	NA	3,008.83
	4/8/2020	93.40	81.35	NA	NA	3,008.93
	7/8/2020	93.47	81.41	NA	NA	3,008.87
	10/8/2020	93.41	81.46	NA	NA	3,008.82
	1/4/2021	94.45	81.47	NA	NA	3,008.81
	4/6/2021	94.45	81.31	NA	NA	3,008.97
	07/21/21	NM	81.48	NA	NA	3,008.80
MW-33						
3,080.02	4/10/2019	92.98	76.84	NA	NA	3,003.18

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Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
	7/9/2019	92.97	77.00	NA	NA	3,003.02
	10/8/2019	NM	77.09	NA	NA	3,002.93
	1/15/2020	NM	77.09	NA	NA	3,002.93
	4/8/2020	92.58	76.98	NA	NA	3,003.04
	7/8/2020	92.72	76.99	NA	NA	3,003.03
	10/8/2020	92.81	77.07	NA	NA	3,002.95
	1/4/2021	92.67	77.09	NA	NA	3,002.93
	4/6/2021	92.67	76.93	NA	NA	3,003.09
	07/21/21	NM	77.07	NA	NA	3,002.95
MW-34						
3,069.95	4/10/2019	78.04	71.21	NA	NA	2,998.74
	7/9/2019	78.03	71.42	NA	NA	2,998.53
	10/8/2019	NM	71.45	NA	NA	2,998.50
	1/15/2020	NM	71.41	NA	NA	2,998.54
	4/8/2020	78.02	71.45	NA	NA	2,998.50
	7/8/2020	78.07	71.49	NA	NA	2,998.46
	10/8/2020	78.05	71.53	NA	NA	2,998.42
	1/4/2021	78.06	71.63	NA	NA	2,998.32
	4/6/2021	78.06	71.42	NA	NA	2,998.53
	07/21/21	NM	71.68	NA	NA	2,998.27
NM-MW-1						
3,124.90	12/2/2015	NM	72.01	NA	NA	3,052.89
	1/25/2016	106.86	72.01	NA	NA	3,052.89
	7/22/2016	NM	71.90	NA	NA	3,053.00
	1/12/2017	NM	71.73	NA	NA	3,053.17
	4/7/2017	106.36	71.78	NA	NA	3,053.12
	7/13/2017	NM	71.67	NA	NA	3,053.23
	10/3/2017	NM	71.65	NA	NA	3,053.25
	1/12/2018	NM	71.63	NA	NA	3,053.27
	4/2/2018	NM	71.66	NA	NA	3,053.24
	07/02/18	NM	70.65	NA	NA	3,054.25
	10/1/2018	NM	71.71	NA	NA	3,053.19
	1/7/2019	NM	71.63	NA	NA	3,053.27
	4/4/2019	NM	71.61	NA	NA	3,053.29
	7/8/2019	105.91	71.58	NA	NA	3,053.32
	10/7/2019	NM	71.76	NA	NA	3,053.14
	1/13/2020	NM	71.66	NA	NA	3,053.24
	4/6/2020	105.95	71.67	NA	NA	3,053.23
	7/9/2020	105.84	71.70	NA	NA	3,053.20
	10/7/2020	105.94	71.84	NA	NA	3,053.06
	1/5/2021	105.94	71.88	NA	NA	3,053.02
	4/6/2021	105.94	71.82	NA	NA	3,053.08
	07/20/21	NM	71.96	NA	NA	3,052.94
NM-MW-2						
3,152.86	12/2/2015	NM	96.14	NA	NA	3,056.72
	1/25/2016	120.55	96.38	NA	NA	3,056.48
	7/22/2016	NM	96.28	NA	NA	3,056.58
	1/12/2017	NM	96.20	NA	NA	3,056.66
	4/7/2017	120.60	96.49	NA	NA	3,056.37
	7/13/2017	NM	96.25	NA	NA	3,056.61
	10/3/2017	NM	96.17	NA	NA	3,056.69
	1/12/2018	NM	96.29	NA	NA	3,056.57
	4/2/2018	NM	96.18	NA	NA	3,056.68
	07/02/18	NM	96.42	NA	NA	3,056.44
	10/1/2018	NM	96.28	NA	NA	3,056.58
	1/7/2019	NM	96.14	NA	NA	3,056.72

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Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
	4/4/2019	NM	96.20	NA	NA	3,056.66
	7/8/2019	120.53	96.02	NA	NA	3,056.84
	10/7/2019	NM	96.30	NA	NA	3,056.56
	1/13/2020	NM	96.00	NA	NA	3,056.86
	4/6/2020	120.68	95.98	NA	NA	3,056.88
	7/9/2020	120.54	95.90	NA	NA	3,056.96
	10/7/2020	120.60	95.94	NA	NA	3,056.92
	1/5/2021	120.60	95.85	NA	NA	3,057.01
	4/6/2021	120.60	95.66	NA	NA	3,057.20
	07/20/21	NM	95.97	NA	NA	3,056.89
NM-MW-3						
3,146.86	12/2/2015	NM	91.70	NA	NA	3,055.16
	1/25/2016	105.01	91.80	NA	NA	3,055.06
	7/22/2016	NM	91.81	NA	NA	3,055.05
	1/12/2017	NM	91.75	NA	NA	3,055.11
	4/7/2017	105.28	91.99	NA	NA	3,054.87
	7/13/2017	NM	91.92	NA	NA	3,054.94
	10/3/2017	NM	91.90	NA	NA	3,054.96
	1/12/2018	NM	91.93	NA	NA	3,054.93
	4/2/2018	NM	91.82	NA	NA	3,055.04
	07/02/18	NM	91.88	NA	NA	3,054.98
	10/1/2018	NM	91.78	NA	NA	3,055.08
	1/7/2019	NM	81.68	NA	NA	3,065.18
	4/4/2019	NM	91.70	NA	NA	3,055.16
	7/8/2019	105.31	91.55	NA	NA	3,055.31
	10/7/2019	NM	91.72	NA	NA	3,055.14
	1/13/2020	NM	91.50	NA	NA	3,055.36
	4/6/2020	105.28	91.47	NA	NA	3,055.39
	7/9/2020	105.27	91.40	NA	NA	3,055.46
	10/7/2020	105.40	91.43	NA	NA	3,055.43
	1/5/2021	105.40	91.36	NA	NA	3,055.50
	4/6/2021	105.40	91.22	NA	NA	3,055.64
	07/20/21	NM	91.40	NA	NA	3,055.46
NM-MW-4						
3,154.21	12/2/2015	NM	110.59	NA	NA	3,043.62
	1/25/2016	116.91	110.46	NA	NA	3,043.75
	7/22/2016	NM	110.57	NA	NA	3,043.64
	1/12/2017	NM	110.40	NA	NA	3,043.81
	4/7/2017	117.19	110.52	NA	NA	3,043.69
	7/13/2017	NM	110.50	NA	NA	3,043.71
	10/3/2017	NM	110.52	NA	NA	3,043.69
	1/12/2018	NM	110.48	NA	NA	3,043.73
	4/2/2018	NM	110.55	NA	NA	3,043.66
	07/02/18	NM	110.38	NA	NA	3,043.83
	10/1/2018	NM	110.44	NA	NA	3,043.77
	1/7/2019	NM	110.34	NA	NA	3,043.87
	4/4/2019	NM	110.36	NA	NA	3,043.85
	7/8/2019	117.12	110.27	NA	NA	3,043.94
	10/7/2019	NM	110.35	NA	NA	3,043.86
	1/13/2020	NM	110.23	NA	NA	3,043.98
	4/6/2020	117.11	110.24	NA	NA	3,043.97
	7/9/2020	117.16	110.13	NA	NA	3,044.08
	10/7/2020	117.16	110.09	NA	NA	3,044.12
	1/5/2021	117.16	110.01	NA	NA	3,044.20
	4/6/2021	117.16	110.05	NA	NA	3,044.16
	07/20/21	NM	110.08	NA	NA	3,044.13

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Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
NM-MW-5						
3,109.14	12/2/2015	NM	DRY	NA	NA	DRY
	1/25/2016	115.00	99.95	NA	NA	3,009.19
	7/22/2016	NM	99.78	NA	NA	3,009.36
	1/12/2017	NM	99.70	NA	NA	3,009.44
	4/7/2017	114.92	99.66	NA	NA	3,009.48
	7/13/2017	NM	99.80	NA	NA	3,009.34
	10/32017	NM	99.69	NA	NA	3,009.45
	1/12/2018	NM	99.80	NA	NA	3,009.34
	4/2/2018	NM	99.76	NA	NA	3,009.38
	07/02/18	NM	99.82	NA	NA	3,009.32
	10/1/2018	NM	99.89	NA	NA	3,009.25
	1/7/2019	NM	99.61	NA	NA	3,009.53
	4/4/2019	NM	99.74	NA	NA	3,009.40
	7/8/2019	114.43	99.94	NA	NA	3,009.20
	10/7/2019	NM	99.78	NA	NA	3,009.36
	1/13/2020	NM	99.88	NA	NA	3,009.26
	4/6/2020	114.41	99.79	NA	NA	3,009.35
	7/9/2020	114.37	100.01	NA	NA	3,009.13
	10/7/2020	114.59	100.10	NA	NA	3,009.04
	1/5/2021	114.55	100.12	NA	NA	3,009.02
	4/6/2021	114.55	100.03	NA	NA	3,009.11
	07/20/21	NM	100.02	NA	NA	3,009.12
NM-MW-6						
3,093.23	12/2/2015	NM	86.98	NA	NA	3,006.25
	1/25/2016	123.21	86.93	NA	NA	3,006.30
	7/22/2016	NM	87.10	NA	NA	3,006.13
	1/12/2017	NM	87.35	NA	NA	3,005.88
	4/7/2017	123.16	87.42	NA	NA	3,005.81
	7/13/2017	NM	87.47	NA	NA	3,005.76
	10/3/2017	NM	87.47	NA	NA	3,005.76
	1/12/2018	NM	87.57	NA	NA	3,005.66
	4/2/2018	NM	87.53	NA	NA	3,005.70
	07/02/18	NM	87.66	NA	NA	3,005.57
	10/1/2018	NM	87.70	NA	NA	3,005.53
	1/7/2019	NM	87.64	NA	NA	3,005.59
	4/4/2019	NM	87.81	NA	NA	3,005.42
	7/8/2019	121.02	87.77	NA	NA	3,005.46
	10/7/2019	NM	87.89	NA	NA	3,005.34
	1/13/2020	NM	87.83	NA	NA	3,005.40
	4/6/2020	121.07	87.82	NA	NA	3,005.41
	7/9/2020	121.09	87.84	NA	NA	3,005.39
	10/7/2020	121.80	87.92	NA	NA	3,005.31
	1/5/2021	121.80	87.93	NA	NA	3,005.30
	4/6/2021	121.80	87.74	NA	NA	3,005.49
	07/20/21	NM	87.86	NA	NA	3,005.37

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Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
NM-MW-7						
3,147.67	12/2/2015	NM	96.71	NA	NA	3,050.96
	1/25/2016	105.52	96.79	NA	NA	3,050.88
	7/22/2016	NM	96.91	NA	NA	3,050.76
	1/12/2017	NM	96.80	NA	NA	3,050.87
	4/7/2017	105.89	97.20	NA	NA	3,050.47
	7/13/2017	NM	97.12	NA	NA	3,050.55
	10/3/2017	NM	96.73	NA	NA	3,050.94
	1/12/2018	NM	96.40	NA	NA	3,051.27
	4/2/2018	NM	96.26	NA	NA	3,051.41
	07/02/18	NM	96.13	NA	NA	3,051.54
	10/1/2018	NM	96.07	NA	NA	3,051.60
	1/7/2019	NM	95.88	NA	NA	3,051.79
	4/4/2019	NM	95.91	NA	NA	3,051.76
	7/8/2019	105.92	95.75	NA	NA	3,051.92
	10/7/2019	NM	95.88	NA	NA	3,051.79
	1/13/2020	NM	95.65	NA	NA	3,052.02
	4/6/2020	106.47	95.63	NA	NA	3,052.04
	7/9/2020	105.56	95.52	NA	NA	3,052.15
	10/7/2020	105.84	95.53	NA	NA	3,052.14
	1/5/2021	105.84	95.44	NA	NA	3,052.23
	4/6/2021	105.84	95.40	NA	NA	3,052.27
	07/19/21	NM	94.57	NA	NA	3,053.10
NM-MW-8						
3,138.62	4/7/2017	108.33	98.63	NA	NA	3,039.99
	7/13/2017	NM	98.49	NA	NA	3,040.13
	10/3/2017	NM	98.42	NA	NA	3,040.20
	1/12/2018	NM	98.34	NA	NA	3,040.28
	4/2/2018	NM	98.35	NA	NA	3,040.27
	07/02/18	NM	98.22	NA	NA	3,040.40
	10/1/2018	NM	98.16	NA	NA	3,040.46
	1/7/2019	NM	98.03	NA	NA	3,040.59
	4/4/2019	NM	98.01	NA	NA	3,040.61
	7/8/2019	108.33	97.83	NA	NA	3,040.79
	10/7/2019	NM	97.89	NA	NA	3,040.73
	1/13/2020	NM	97.74	NA	NA	3,040.88
	4/6/2020	108.39	97.72	NA	NA	3,040.90
	7/9/2020	108.36	97.54	NA	NA	3,041.08
	10/7/2020	108.28	97.49	NA	NA	3,041.13
	1/5/2021	108.28	97.49	NA	NA	3,041.13
	4/6/2021	108.28	97.30	NA	NA	3,041.32
	07/20/21	NM	97.52	NA	NA	3,041.10
NM-MW-9						
3,118.18	4/7/2017	96.79	96.73	NA	NA	3,021.45
	7/13/2017	NM	95.58	NA	NA	3,022.60
	10/3/2017	NM	95.37	NA	NA	3,022.81
	1/12/2018	NM	94.94	NA	NA	3,023.24
	4/2/2018	NM	94.71	NA	NA	3,023.47
	07/02/18	NM	94.60	NA	NA	3,023.58
	10/1/2018	NM	94.60	NA	NA	3,023.58
	1/7/2019	NM	94.39	NA	NA	3,023.79
	4/5/2019	NM	97.37	NA	NA	3,020.81
	7/8/2019	96.77	94.21	NA	NA	3,023.97
	10/7/2019	NM	94.17	NA	NA	3,024.01
	1/13/2020	96.79	94.08	NA	NA	3,024.10
	4/6/2020	96.78	93.92	NA	NA	3,024.26

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Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
	7/7/2020	56.77	93.83	NA	NA	3,024.35
	10/8/2020	96.78	93.80	NA	NA	3,024.38
	1/5/2021	96.80	93.72	NA	NA	3,024.46
	4/6/2021	96.80	93.56	NA	NA	3,024.62
	07/20/21	NM	93.57	NA	NA	3,024.61
NM-MW-10						
3,066.32	1/10/2017	NM	78.94	NA	NA	2,987.38
	4/7/2017	108.10	79.02	NA	NA	2,987.30
	7/13/2017	NM	79.09	NA	NA	2,987.23
	10/3/2017	NM	79.12	NA	NA	2,987.20
	1/12/2018	NM	79.15	NA	NA	2,987.17
	4/2/2018	NM	79.23	NA	NA	2,987.09
	07/02/18	NM	79.24	NA	NA	2,987.08
	10/1/2018	NM	79.32	NA	NA	2,987.00
	1/7/2019	NM	79.27	NA	NA	2,987.05
	4/4/2019	NM	79.37	NA	NA	2,986.95
	7/8/2019	108.43	79.42	NA	NA	2,986.90
	10/7/2019	NM	79.48	NA	NA	2,986.84
	1/13/2020	NM	79.53	NA	NA	2,986.79
	4/6/2020	108.41	79.55	NA	NA	2,986.77
	7/7/2020	108.40	79.61	NA	NA	2,986.71
	10/8/2020	108.41	79.61	NA	NA	2,986.71
	1/5/2021	108.41	79.66	NA	NA	2,986.66
	4/6/2021	108.41	79.69	NA	NA	2,986.63
	07/20/21	NM	79.76	NA	NA	2,986.56
NM-MW-11						
3,075.44	1/10/2017	NM	150.11	NA	NA	2,925.33
	4/7/2017	163.56	127.16	NA	NA	2,948.28
	7/13/2017	NM	107.66	NA	NA	2,967.78
	10/3/2017	NM	97.78	NA	NA	2,977.66
	1/12/2018	NM	90.89	NA	NA	2,984.55
	4/2/2018	NM	87.75	NA	NA	2,987.69
	07/02/18	NM	86.07	NA	NA	2,989.37
	10/1/2018	NM	84.80	NA	NA	2,990.64
	1/7/2019	NM	83.28	NA	NA	2,992.16
	4/4/2019	NM	82.82	NA	NA	2,992.62
	7/8/2019	163.02	82.94	NA	NA	2,992.50
	10/8/2019	NM	82.97	NA	NA	2,992.47
	1/13/2020	NM	82.58	NA	NA	2,992.86
	4/6/2020	166.05	82.29	NA	NA	2,993.15
	7/7/2020	163.00	82.54	NA	NA	2,992.90
	10/8/2020	163.00	82.85	NA	NA	2,992.59
	1/4/2021	163.00	82.71	NA	NA	2,992.73
	4/6/2021	163.00	82.64	NA	NA	2,992.80
	07/20/21	NM	82.63	NA	NA	2,992.81
NM-MW-12						
3,105.47	4/7/2017	98.54	96.70	NA	NA	3,008.77
	7/13/2017	NM	96.72	NA	NA	3,008.75
	10/3/2017	NM	96.69	NA	NA	3,008.78
	1/12/2018	NM	96.67	NA	NA	3,008.80
	4/2/2018	NM	96.71	NA	NA	3,008.76
	07/02/18	NM	96.68	NA	NA	3,008.79
	10/1/2018	NM	96.67	NA	NA	3,008.80
	1/7/2019	NM	96.51	NA	NA	3,008.96
	4/4/2019	NM	96.60	NA	NA	3,008.87
	7/8/2019	98.52	96.61	NA	NA	3,008.86

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Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
	10/7/2019	NM	96.64	NA	NA	3,008.83
	1/13/2020	98.55	97.63	NA	NA	3,007.84
	4/6/2020	98.78	96.57	NA	NA	3,008.90
	7/10/2020	98.35	96.64	NA	NA	3,008.83
	10/8/2020	98.52	96.61	NA	NA	3,008.86
	1/5/2021	98.56	96.58	NA	NA	3,008.89
	4/6/2021	98.56	96.52	NA	NA	3,008.95
	07/20/21	NM	96.53	NA	NA	3,008.94
NM-MW-13						
3,051.17	4/7/2017	111.80	84.04	NA	NA	2,967.13
	7/13/2017	NM	84.05	NA	NA	2,967.12
	10/3/2017	NM	84.10	NA	NA	2,967.07
	1/12/2018	NM	84.12	NA	NA	2,967.05
	4/2/2018	NM	84.15	NA	NA	2,967.02
	07/02/18	NM	84.15	NA	NA	2,967.02
	10/1/2018	NM	84.24	NA	NA	2,966.93
	1/7/2019	NM	84.15	NA	NA	2,967.02
	4/4/2019	NM	84.27	NA	NA	2,966.90
	7/8/2019	111.74	84.29	NA	NA	2,966.88
	10/8/2019	NM	84.37	NA	NA	2,966.80
	1/13/2020	NM	84.40	NA	NA	2,966.77
	4/6/2020	111.70	84.39	NA	NA	2,966.78
	7/7/2020	111.64	84.44	NA	NA	2,966.73
	10/8/2020	111.73	84.49	NA	NA	2,966.68
	1/4/2021	111.73	84.53	NA	NA	2,966.64
	4/6/2021	111.73	84.53	NA	NA	2,966.64
	07/20/21	NM	84.60	NA	NA	2,966.57
.						
3,126.82	2/17/2020	97.74	95.82	NA	NA	3,031.00
	4/6/2020	97.67	95.81	NA	NA	3,031.01
	7/9/2020	97.66	95.82	NA	NA	3,031.00
	10/8/2020	97.75	95.85	NA	NA	3,030.97
	1/5/2021	97.68	95.79	NA	NA	3,031.03
	4/6/2021	97.68	95.76	NA	NA	3,031.06
	07/20/21	NM	95.77	NA	NA	3,031.05
NM-MW-15						
3,064.93	2/17/2020	98.06	86.55	NA	NA	2,978.38
	4/6/2020	98.08	86.60	NA	NA	2,978.33
	7/7/2020	98.07	86.66	NA	NA	2,978.27
	10/8/2020	97.99	87.71	NA	NA	2,977.22
	1/4/2021	98.20	86.76	NA	NA	2,978.17
	4/6/2021	98.20	86.76	NA	NA	2,978.17
	07/20/21	NM				
NM-MW-16						
3,085.99	2/17/2020	93.04	DRY	NA	NA	NA
	4/6/2020	93.04	DRY	NA	NA	NA
	7/7/2020	93.05	DRY	NA	NA	NA
	10/8/2020	93.10	93.06	NA	NA	2,992.93
	1/4/2021	93.11	DRY	NA	NA	NA
	4/6/2021	93.02	DRY	NA	NA	NA
	07/20/21	NM	DRY	NA	NA	NA

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Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
NM-MW-17						
3,035.70	2/17/2020	86.71	58.34	NA	NA	2,977.36
	4/6/2020	86.70	58.36	NA	NA	2,977.34
	7/7/2020	86.74	58.43	NA	NA	2,977.27
	10/8/2020	86.73	58.52	NA	NA	2,977.18
	1/4/2021	86.73	58.55	NA	NA	2,977.15
	4/6/2021	86.73	58.54	NA	NA	2,977.16
	07/20/21	NM	58.62	NA	NA	2,977.08
NM-MW-20						
3,091.29	2/17/2020	97.76	93.23	NA	NA	2,998.06
	4/6/2020	97.81	93.29	NA	NA	2,998.00
	7/10/2020	97.76	93.37	NA	NA	2,997.92
	10/8/2020	97.77	93.39	NA	NA	2,997.90
	1/4/2021	97.77	93.45	NA	NA	2,997.84
	4/6/2021	97.77	93.37	NA	NA	2,997.92
	07/20/21	NM	93.48	NA	NA	2,997.81
NM-MW-21						
3,047.98	2/17/2020	78.48	76.46	NA	NA	2,971.52
	4/6/2020	78.48	76.50	NA	NA	2,971.48
	7/10/2020	78.48	76.53	NA	NA	2,971.45
	10/8/2020	78.49	76.57	NA	NA	2,971.41
	1/4/2021	78.55	76.61	NA	NA	2,971.37
	4/6/2021	78.55	76.64	NA	NA	2,971.34
	07/20/21	NM	76.69	NA	NA	2,971.29
Non-Remedial Wells						
Livermore						
NM	12/07/06	111.60	95.96	NA	NA	NA
	02/13/07	110.72	95.08	NA	NA	NA
	02/28/07	NM	95.08	NA	NA	NA
	07/30/07	110.72	95.71	NA	NA	NA
	07/09/08	110.72	94.89	NA	NA	NA
	01/28/09	110.81	94.81	NA	NA	NA
	08/28/09	111.11	95.08	NA	NA	NA
	02/19/10	NM	94.70	NA	NA	NA
	08/16/10	NM	94.67	NA	NA	NA
	02/11/11	NM	95.00	NA	NA	NA
	07/31/13	104.21	95.29	NA	NA	NA
	07/16/14	NM	95.85	NA	NA	NA
	01/25/16	104.23	95.20	NA	NA	NA
	07/21/16	NM	95.30	NA	NA	NA
	01/11/17	NM	95.10	NA	NA	NA
	07/13/17	NM	95.17	NA	NA	NA
	10/03/17	NM	95.27	NA	NA	NA
	01/12/18	NM	94.97	NA	NA	NA
	04/02/18	NM	94.97	NA	NA	NA
	07/02/18	NM	95.19	NA	NA	NA
	10/1/2018	NM	95.26	NA	NA	NA
	1/8/2019	NM	95.27	NA	NA	NA
	4/10/2019	NM	95.27	NA	NA	NA
	7/10/2019	NM	95.40	NA	NA	NA
	10/9/2019	NM	95.28	NA	NA	NA
	1/16/2020	NM	95.62	NA	NA	NA
	4/8/2020	99.81	95.42	NA	NA	NA

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Historical Groundwater Elevation Measurements
Chevron Dollarhide Unit
Dollarhide, Texas

TOC Elevation (ft NAVD)	Date	Total Depth (ft below TOC)	Depth to Water (ft below TOC)	Depth to LNAPL (ft below TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft NAVD)[1]
	7/6/2020	99.87	95.48	NA	NA	NA
	10/12/2020	99.77	95.52	NA	NA	NA
	1/7/2021	99.74	95.63	NA	NA	NA
	07/22/21	NM	95.65	NA	NA	NA
Pure Water Well						
3,151.80	08/16/12	104.80	88.00	NA	NA	3,063.80
	08/30/13	100.50	88.35	NA	NA	3,063.45
	07/14/15	NM	88.35	NA	NA	3,063.45
RRR Ranch Windmill						
NM	08/28/09	117.05	95.05	NA	NA	NA
	07/22/16	NM	94.36	NA	NA	NA
	01/12/17	NM	94.28	NA	NA	NA
	07/13/17	99.61	94.37	NA	NA	NA
	10/03/17	NM	94.34	NA	NA	NA
	01/12/18	NM	94.24	NA	NA	NA
	04/02/18	NM	94.24	NA	NA	NA
	07/02/18	NM	94.14	NA	NA	NA
	10/1/2018	NM	94.08	NA	NA	NA
	1/7/2019	NM	93.95	NA	NA	NA
	4/4/2019	NM	93.95	NA	NA	NA
	7/8/2019	96.44	93.82	NA	NA	NA
	10/7/2019	NM	93.91	NA	NA	NA
	1/13/2020	NM	93.72	NA	NA	NA
	4/6/2020	96.60	93.69	NA	NA	NA
	7/9/2020	96.48	93.57	NA	NA	NA
	10/7/2020	96.33	93.55	NA	NA	NA
	1/5/2021	96.33	93.46	NA	NA	NA
	4/6/2021	96.33	93.42	NA	NA	NA
	07/19/21	NM	93.48	NA	NA	NA
TRAC-4						
NM	NA	NM	NM	NA	NA	NA
TRAC-8						
NM	NA	NM	NM	NA	NA	NA
Wilson Ranch Well						
NM	NA	NM	NM	NA	NA	NA

Notes:
[1] Formula for Adjusted Groundwater Elevation: TOC - Depth to Water + 0.75 (LNAPL thickness).
ft = feet
NAVD = North American Vertical Datum
TOC = top of casing
LNAPL = light non-aqueous phase liquid
NM = Not Measured
NA = Not Applicable

Appendix B

January 2022 Groundwater Sample Analytical Laboratory Reports

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-10610-1
Laboratory Sample Delivery Group: 12564966-02
Client Project/Site: Scout EP-Dollarhide

For:
GHD Services Inc.
2135 South Loop 250 West
Midland, Texas 79703

Attn: Nick G. Casten

Authorized for release by:
2/9/2022 5:39:10 PM

Debbie Simmons, Project Manager
(832)986-6768
debbie.simmons@eurofinset.com

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

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

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Laboratory Job ID: 880-10610-1
SDG: 12564966-02

Table of Contents

Definitions/Glossary

Client: GHD Services Inc. Job ID: 880-10610-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

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

Case Narrative

Client: GHD Services Inc. Job ID: 880-10610-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Job ID: 880-10610-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-10610-1

Receipt
The samples were received on 1/26/2022 12:50 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

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

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

Client Sample Results

Client: GHD Services Inc. Job ID: 880-10610-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Client Sample ID: NM-MW-11-W-222501 Lab Sample ID: 880-10610-1

Date Collected: 01/25/22 14:25 **Matrix: Water**
Date Received: 01/26/22 12:50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	159		10.0	0.421	mg/L			02/06/22 15:34	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2010		100	100	mg/L			01/29/22 13:44	1

Client Sample ID: NM-MW-13-W-222501 Lab Sample ID: 880-10610-2

Date Collected: 01/25/22 14:00 **Matrix: Water**
Date Received: 01/26/22 12:50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	197		5.00	0.210	mg/L			02/06/22 15:57	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1210		50.0	50.0	mg/L			01/29/22 13:44	1

Client Sample ID: NM-MW-15-W-222501 Lab Sample ID: 880-10610-3

Date Collected: 01/25/22 14:40 **Matrix: Water**
Date Received: 01/26/22 12:50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.2		2.50	0.105	mg/L			02/06/22 16:04	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	517		50.0	50.0	mg/L			01/29/22 13:44	1

Client Sample ID: NM-MW-13-WD-222501 Lab Sample ID: 880-10610-4

Date Collected: 01/25/22 00:00 **Matrix: Water**
Date Received: 01/26/22 12:50

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	198		5.00	0.210	mg/L			02/06/22 16:12	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1130		50.0	50.0	mg/L			01/29/22 13:44	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10610-1
SDG: 12564966-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-18638/3
Matrix: Water
Analysis Batch: 18638

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.0210	U	0.500	0.0210	mg/L			02/06/22 15:11	1

Lab Sample ID: LCS 880-18638/4
Matrix: Water
Analysis Batch: 18638

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	24.12		mg/L		96	90 - 110

Lab Sample ID: LCSD 880-18638/5
Matrix: Water
Analysis Batch: 18638

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	25.0	24.10		mg/L		96	90 - 110	0	20

Lab Sample ID: 880-10610-1 MS
Matrix: Water
Analysis Batch: 18638

Client Sample ID: NM-MW-11-W-222501
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	159		500	681.9		mg/L		105	90 - 110

Lab Sample ID: 880-10610-1 MSD
Matrix: Water
Analysis Batch: 18638

Client Sample ID: NM-MW-11-W-222501
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	159		500	678.5		mg/L		104	90 - 110	0	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 880-18092/1
Matrix: Water
Analysis Batch: 18092

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<25.0	U	25.0	25.0	mg/L			01/29/22 13:44	1

Lab Sample ID: LCS 880-18092/2
Matrix: Water
Analysis Batch: 18092

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	1005		mg/L		101	80 - 120

QC Sample Results

Client: GHD Services Inc. Job ID: 880-10610-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSD 880-18092/3 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 18092

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1001		mg/L		100	80 - 120	0	10

Lab Sample ID: 880-10610-2 DU **Client Sample ID: NM-MW-13-W-222501**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 18092

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1210			1123		mg/L				7	10

QC Association Summary

Client: GHD Services Inc. Job ID: 880-10610-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

HPLC/IC

Analysis Batch: 18638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10610-1	NM-MW-11-W-222501	Total/NA	Water	300.0	
880-10610-2	NM-MW-13-W-222501	Total/NA	Water	300.0	
880-10610-3	NM-MW-15-W-222501	Total/NA	Water	300.0	
880-10610-4	NM-MW-13-WD-222501	Total/NA	Water	300.0	
MB 880-18638/3	Method Blank	Total/NA	Water	300.0	
LCS 880-18638/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-18638/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-10610-1 MS	NM-MW-11-W-222501	Total/NA	Water	300.0	
880-10610-1 MSD	NM-MW-11-W-222501	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 18092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10610-1	NM-MW-11-W-222501	Total/NA	Water	SM 2540C	
880-10610-2	NM-MW-13-W-222501	Total/NA	Water	SM 2540C	
880-10610-3	NM-MW-15-W-222501	Total/NA	Water	SM 2540C	
880-10610-4	NM-MW-13-WD-222501	Total/NA	Water	SM 2540C	
MB 880-18092/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 880-18092/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 880-18092/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
880-10610-2 DU	NM-MW-13-W-222501	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10610-1
SDG: 12564966-02

Client Sample ID: NM-MW-11-W-222501

Lab Sample ID: 880-10610-1
Matrix: Water
Date Collected: 01/25/22 14:25
Date Received: 01/26/22 12:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		20			18638	02/06/22 15:34	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	18092	01/29/22 13:44	SC	XEN MID

Client Sample ID: NM-MW-13-W-222501

Lab Sample ID: 880-10610-2
Matrix: Water
Date Collected: 01/25/22 14:00
Date Received: 01/26/22 12:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			18638	02/06/22 15:57	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	18092	01/29/22 13:44	SC	XEN MID

Client Sample ID: NM-MW-15-W-222501

Lab Sample ID: 880-10610-3
Matrix: Water
Date Collected: 01/25/22 14:40
Date Received: 01/26/22 12:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			18638	02/06/22 16:04	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	18092	01/29/22 13:44	SC	XEN MID

Client Sample ID: NM-MW-13-WD-222501

Lab Sample ID: 880-10610-4
Matrix: Water
Date Collected: 01/25/22 00:00
Date Received: 01/26/22 12:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			18638	02/06/22 16:12	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	18092	01/29/22 13:44	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: GHD Services Inc. Job ID: 880-10610-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

Method Summary

Client: GHD Services Inc. Job ID: 880-10610-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN MID

Protocol References:

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

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10610-1
SDG: 12564966-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-10610-1	NM-MW-11-W-222501	Water	01/25/22 14:25	01/26/22 12:50
880-10610-2	NM-MW-13-W-222501	Water	01/25/22 14:00	01/26/22 12:50
880-10610-3	NM-MW-15-W-222501	Water	01/25/22 14:40	01/26/22 12:50
880-10610-4	NM-MW-13-WD-222501	Water	01/25/22 00:00	01/26/22 12:50

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins Environment Testing America

880-10610 Chain of Custody

Client Information	Sampler: Joe Morales / Mitchell Clemens	Lab PM: Simmons Debbie	Carrier Tracking No
Client Contact: Nick Casten	Phone	E-Mail: debbie simmons@eurofinset com	State of Origin
Company: GHD Services Inc	PWSID		
Address: 2135 South Loop 250 West	Due Date Requested		
City: Midland	TAT Requested (days):		
State, Zip: TX 79703	Compliance Project: Δ Yes Δ No		
Phone: 512-506-8803(Tel)	PO #: new PO		
Email: nick casten@ghd com	WO #: 12564966-02		
Project Name: Scout EP - Dollarhide	Project #: 88000225		
Site:	SSOW#:		

Analysis Requested

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd TDS	300_ORGFM_28D Chloride	Total Number of containers	Special Instructions/Note.
			Preservation Code:				N	N		
NM-MW-11-W-222501	1-25	1425	G	W	N	N	X	X		Please place this set of samples on their own report
MW-12										
NM-MW-13-W-222501	1-25	1400	G	W	N	N	X	X		
NM-MW-15-W-222501	1-25	1440	G	W	N	N	X	X		
MW-16										
MW-17										
MW-20										
MW-21										
NM-MW-23-WD-222501	125	—	G	W	N	N	X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Joe Morales	1-26-22 1246	GHD		1-26-22 12 46	Xenco
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: (Δ) Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 1 3 / 1 2

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-10610-1
SDG Number: 12564966-02

Login Number: 10610
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-10652-1
Laboratory Sample Delivery Group: 12564966-02
Client Project/Site: Scout EP-Dollarhide

For:
GHD Services Inc.
2135 South Loop 250 West
Midland, Texas 79703

Attn: Christopher Knight

Authorized for release by:
2/16/2022 12:10:54 PM

Debbie Simmons, Project Manager
(832)986-6768
debbie.simmons@eurofinset.com

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

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

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Laboratory Job ID: 880-10652-1
SDG: 12564966-02

Table of Contents

Definitions/Glossary

Client: GHD Services Inc. Job ID: 880-10652-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

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

Case Narrative

Client: GHD Services Inc. Job ID: 880-10652-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Job ID: 880-10652-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-10652-1

Receipt
The samples were received on 1/27/2022 8:39 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 880-18638 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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

Client Sample Results

Client: GHD Services Inc. Job ID: 880-10652-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Client Sample ID: NM-MW-7-W-222501 Lab Sample ID: 880-10652-1

Date Collected: 01/25/22 11:15 **Matrix: Water**
Date Received: 01/27/22 08:39

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2340		25.0	1.05	mg/L			02/06/22 16:50	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4680		200	200	mg/L			01/29/22 13:53	1

Client Sample ID: RRR-RanchWindmill-W-222501 Lab Sample ID: 880-10652-2

Date Collected: 01/25/22 11:30 **Matrix: Water**
Date Received: 01/27/22 08:39

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2350		25.0	1.05	mg/L			02/06/22 16:57	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4080		200	200	mg/L			01/29/22 13:53	1

Client Sample ID: NM-MW-4-W-222501 Lab Sample ID: 880-10652-3

Date Collected: 01/25/22 11:45 **Matrix: Water**
Date Received: 01/27/22 08:39

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.0		2.50	0.105	mg/L			02/06/22 17:05	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	432		50.0	50.0	mg/L			01/29/22 13:53	1

Client Sample ID: NM-MW-8-W-222501 Lab Sample ID: 880-10652-4

Date Collected: 01/25/22 12:05 **Matrix: Water**
Date Received: 01/27/22 08:39

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7490		50.0	2.10	mg/L			02/06/22 17:12	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	11500		500	500	mg/L			01/29/22 13:53	1

Client Sample ID: NM-MW-3-W-222501 Lab Sample ID: 880-10652-5

Date Collected: 01/25/22 12:25 **Matrix: Water**
Date Received: 01/27/22 08:39

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	365		5.00	0.210	mg/L			02/06/22 17:20	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	792		50.0	50.0	mg/L			01/29/22 13:53	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc. Job ID: 880-10652-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Client Sample ID: NM-MW-2-W-222501 Lab Sample ID: 880-10652-6

Date Collected: 01/25/22 12:35 **Matrix: Water**
Date Received: 01/27/22 08:39

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	799		5.00	0.210	mg/L			02/06/22 17:43	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1450		100	100	mg/L			01/29/22 15:58	1

Client Sample ID: NM-MW-1-W-222501 Lab Sample ID: 880-10652-7

Date Collected: 01/25/22 12:50 **Matrix: Water**
Date Received: 01/27/22 08:39

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	279		5.00	0.210	mg/L			02/06/22 17:50	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1520		100	100	mg/L			01/29/22 15:58	1

Client Sample ID: NM-MW-5-W-222501 Lab Sample ID: 880-10652-8

Date Collected: 01/25/22 13:10 **Matrix: Water**
Date Received: 01/27/22 08:39

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	144		5.00	0.210	mg/L			02/06/22 18:13	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1230		100	100	mg/L			01/29/22 15:58	1

Client Sample ID: NM-MW-6-W-222501 Lab Sample ID: 880-10652-9

Date Collected: 01/25/22 13:25 **Matrix: Water**
Date Received: 01/27/22 08:39

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	154		2.50	0.105	mg/L			02/06/22 18:20	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	847		50.0	50.0	mg/L			01/29/22 15:58	1

Client Sample ID: NM-MW-10-W-222501 Lab Sample ID: 880-10652-10

Date Collected: 01/25/22 15:00 **Matrix: Water**
Date Received: 01/27/22 08:39

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	335		5.00	0.210	mg/L			02/06/22 18:28	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1630		100	100	mg/L			01/29/22 15:58	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10652-1
SDG: 12564966-02

Client Sample ID: NM-MW-9-W-222501

Lab Sample ID: 880-10652-11
Matrix: Water
Date Collected: 01/25/22 15:25
Date Received: 01/27/22 08:39

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	256		2.50	0.105	mg/L			02/06/22 18:35	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	786		50.0	50.0	mg/L			01/29/22 15:58	1

Client Sample ID: NM-MW-9-WD-222501

Lab Sample ID: 880-10652-12
Matrix: Water
Date Collected: 01/25/22 00:00
Date Received: 01/27/22 08:39

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	253		2.50	0.105	mg/L			02/06/22 18:43	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	787		50.0	50.0	mg/L			01/29/22 15:58	1

Client Sample ID: NM-MW-14-W-222501

Lab Sample ID: 880-10652-13
Matrix: Water
Date Collected: 01/25/22 15:40
Date Received: 01/27/22 08:39

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.2		2.50	0.105	mg/L			02/06/22 18:51	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	474		50.0	50.0	mg/L			01/29/22 15:58	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10652-1
SDG: 12564966-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-18638/3
Matrix: Water
Analysis Batch: 18638

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.0210	U	0.500	0.0210	mg/L			02/06/22 15:11	1

Lab Sample ID: LCS 880-18638/4
Matrix: Water
Analysis Batch: 18638

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	24.12		mg/L		96	90 - 110

Lab Sample ID: LCSD 880-18638/5
Matrix: Water
Analysis Batch: 18638

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	25.0	24.10		mg/L		96	90 - 110	0	20

Lab Sample ID: 880-10652-5 MS
Matrix: Water
Analysis Batch: 18638

Client Sample ID: NM-MW-3-W-222501
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	365		250	586.1	N1	mg/L		89	90 - 110

Lab Sample ID: 880-10652-5 MSD
Matrix: Water
Analysis Batch: 18638

Client Sample ID: NM-MW-3-W-222501
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	365		250	650.7	N1	mg/L		114	90 - 110	10	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 880-18092/1
Matrix: Water
Analysis Batch: 18092

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<25.0	U	25.0	25.0	mg/L			01/29/22 13:44	1

Lab Sample ID: LCS 880-18092/2
Matrix: Water
Analysis Batch: 18092

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	1005		mg/L		101	80 - 120

QC Sample Results

Client: GHD Services Inc. Job ID: 880-10652-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSD 880-18092/3 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18092

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1001		mg/L		100	80 - 120	0	10

Lab Sample ID: 880-10610-A-2 DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18092

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1210			1123		mg/L				7	10

Lab Sample ID: MB 880-18096/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18096

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<25.0	U	25.0	25.0	mg/L			01/29/22 15:58	1

Lab Sample ID: LCS 880-18096/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18096

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	1004		mg/L		100	80 - 120		

Lab Sample ID: LCSD 880-18096/3 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18096

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids			1000	995.0		mg/L		100	80 - 120	1	10

Lab Sample ID: 880-10652-6 DU — **Client Sample ID: NM-MW-2-W-222501**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 18096

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1450			1400		mg/L				4	10

QC Association Summary

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10652-1
SDG: 12564966-02

HPLC/IC

Analysis Batch: 18638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10652-1	NM-MW-7-W-222501	Total/NA	Water	300.0	
880-10652-2	RRR-RanchWindmill-W-222501	Total/NA	Water	300.0	
880-10652-3	NM-MW-4-W-222501	Total/NA	Water	300.0	
880-10652-4	NM-MW-8-W-222501	Total/NA	Water	300.0	
880-10652-5	NM-MW-3-W-222501	Total/NA	Water	300.0	
880-10652-6	NM-MW-2-W-222501	Total/NA	Water	300.0	
880-10652-7	NM-MW-1-W-222501	Total/NA	Water	300.0	
880-10652-8	NM-MW-5-W-222501	Total/NA	Water	300.0	
880-10652-9	NM-MW-6-W-222501	Total/NA	Water	300.0	
880-10652-10	NM-MW-10-W-222501	Total/NA	Water	300.0	
880-10652-11	NM-MW-9-W-222501	Total/NA	Water	300.0	
880-10652-12	NM-MW-9-WD-222501	Total/NA	Water	300.0	
880-10652-13	NM-MW-14-W-222501	Total/NA	Water	300.0	
MB 880-18638/3	Method Blank	Total/NA	Water	300.0	
LCS 880-18638/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-18638/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-10652-5 MS	NM-MW-3-W-222501	Total/NA	Water	300.0	
880-10652-5 MSD	NM-MW-3-W-222501	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 18092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10652-1	NM-MW-7-W-222501	Total/NA	Water	SM 2540C	
880-10652-2	RRR-RanchWindmill-W-222501	Total/NA	Water	SM 2540C	
880-10652-3	NM-MW-4-W-222501	Total/NA	Water	SM 2540C	
880-10652-4	NM-MW-8-W-222501	Total/NA	Water	SM 2540C	
880-10652-5	NM-MW-3-W-222501	Total/NA	Water	SM 2540C	
MB 880-18092/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 880-18092/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 880-18092/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
880-10610-A-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 18096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10652-6	NM-MW-2-W-222501	Total/NA	Water	SM 2540C	
880-10652-7	NM-MW-1-W-222501	Total/NA	Water	SM 2540C	
880-10652-8	NM-MW-5-W-222501	Total/NA	Water	SM 2540C	
880-10652-9	NM-MW-6-W-222501	Total/NA	Water	SM 2540C	
880-10652-10	NM-MW-10-W-222501	Total/NA	Water	SM 2540C	
880-10652-11	NM-MW-9-W-222501	Total/NA	Water	SM 2540C	
880-10652-12	NM-MW-9-WD-222501	Total/NA	Water	SM 2540C	
880-10652-13	NM-MW-14-W-222501	Total/NA	Water	SM 2540C	
MB 880-18096/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 880-18096/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 880-18096/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
880-10652-6 DU	NM-MW-2-W-222501	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: GHD Services Inc. Job ID: 880-10652-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Client Sample ID: NM-MW-7-W-222501 Lab Sample ID: 880-10652-1

Date Collected: 01/25/22 11:15 **Matrix: Water**
Date Received: 01/27/22 08:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			18638	02/06/22 16:50	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	18092	01/29/22 13:53	SC	XEN MID

Client Sample ID: RRR-RanchWindmill-W-222501 Lab Sample ID: 880-10652-2

Date Collected: 01/25/22 11:30 **Matrix: Water**
Date Received: 01/27/22 08:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			18638	02/06/22 16:57	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	18092	01/29/22 13:53	SC	XEN MID

Client Sample ID: NM-MW-4-W-222501 Lab Sample ID: 880-10652-3

Date Collected: 01/25/22 11:45 **Matrix: Water**
Date Received: 01/27/22 08:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			18638	02/06/22 17:05	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	18092	01/29/22 13:53	SC	XEN MID

Client Sample ID: NM-MW-8-W-222501 Lab Sample ID: 880-10652-4

Date Collected: 01/25/22 12:05 **Matrix: Water**
Date Received: 01/27/22 08:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		100			18638	02/06/22 17:12	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	18092	01/29/22 13:53	SC	XEN MID

Client Sample ID: NM-MW-3-W-222501 Lab Sample ID: 880-10652-5

Date Collected: 01/25/22 12:25 **Matrix: Water**
Date Received: 01/27/22 08:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			18638	02/06/22 17:20	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	18092	01/29/22 13:53	SC	XEN MID

Client Sample ID: NM-MW-2-W-222501 Lab Sample ID: 880-10652-6

Date Collected: 01/25/22 12:35 **Matrix: Water**
Date Received: 01/27/22 08:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			18638	02/06/22 17:43	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	18096	01/29/22 15:58	SC	XEN MID

Lab Chronicle

Client: GHD Services Inc. Job ID: 880-10652-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Client Sample ID: NM-MW-1-W-222501 Lab Sample ID: 880-10652-7

Date Collected: 01/25/22 12:50 **Matrix: Water**
Date Received: 01/27/22 08:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			18638	02/06/22 17:50	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	18096	01/29/22 15:58	SC	XEN MID

Client Sample ID: NM-MW-5-W-222501 Lab Sample ID: 880-10652-8

Date Collected: 01/25/22 13:10 **Matrix: Water**
Date Received: 01/27/22 08:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			18638	02/06/22 18:13	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	18096	01/29/22 15:58	SC	XEN MID

Client Sample ID: NM-MW-6-W-222501 Lab Sample ID: 880-10652-9

Date Collected: 01/25/22 13:25 **Matrix: Water**
Date Received: 01/27/22 08:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			18638	02/06/22 18:20	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	18096	01/29/22 15:58	SC	XEN MID

Client Sample ID: NM-MW-10-W-222501 Lab Sample ID: 880-10652-10

Date Collected: 01/25/22 15:00 **Matrix: Water**
Date Received: 01/27/22 08:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			18638	02/06/22 18:28	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	18096	01/29/22 15:58	SC	XEN MID

Client Sample ID: NM-MW-9-W-222501 Lab Sample ID: 880-10652-11

Date Collected: 01/25/22 15:25 **Matrix: Water**
Date Received: 01/27/22 08:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			18638	02/06/22 18:35	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	18096	01/29/22 15:58	SC	XEN MID

Client Sample ID: NM-MW-9-WD-222501 Lab Sample ID: 880-10652-12

Date Collected: 01/25/22 00:00 **Matrix: Water**
Date Received: 01/27/22 08:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			18638	02/06/22 18:43	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	18096	01/29/22 15:58	SC	XEN MID

Lab Chronicle

Client: GHD Services Inc. Job ID: 880-10652-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Client Sample ID: NM-MW-14-W-222501 Lab Sample ID: 880-10652-13

Date Collected: 01/25/22 15:40 **Matrix: Water**
Date Received: 01/27/22 08:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			18638	02/06/22 18:51	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	18096	01/29/22 15:58	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: GHD Services Inc. Job ID: 880-10652-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

Method Summary

Client: GHD Services Inc. Job ID: 880-10652-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN MID

Protocol References:

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

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10652-1
SDG: 12564966-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-10652-1	NM-MW-7-W-222501	Water	01/25/22 11:15	01/27/22 08:39
880-10652-2	RRR-RanchWindmill-W-222501	Water	01/25/22 11:30	01/27/22 08:39
880-10652-3	NM-MW-4-W-222501	Water	01/25/22 11:45	01/27/22 08:39
880-10652-4	NM-MW-8-W-222501	Water	01/25/22 12:05	01/27/22 08:39
880-10652-5	NM-MW-3-W-222501	Water	01/25/22 12:25	01/27/22 08:39
880-10652-6	NM-MW-2-W-222501	Water	01/25/22 12:35	01/27/22 08:39
880-10652-7	NM-MW-1-W-222501	Water	01/25/22 12:50	01/27/22 08:39
880-10652-8	NM-MW-5-W-222501	Water	01/25/22 13:10	01/27/22 08:39
880-10652-9	NM-MW-6-W-222501	Water	01/25/22 13:25	01/27/22 08:39
880-10652-10	NM-MW-10-W-222501	Water	01/25/22 15:00	01/27/22 08:39
880-10652-11	NM-MW-9-W-222501	Water	01/25/22 15:25	01/27/22 08:39
880-10652-12	NM-MW-9-WD-222501	Water	01/25/22 00:00	01/27/22 08:39
880-10652-13	NM-MW-14-W-222501	Water	01/25/22 15:40	01/27/22 08:39

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Joe Mireles / Mitchell Clemens	Lab PM: Simmons Debbie	Carrier Tracking No(s):	COC No: 880-2342-191 1
Client Contact: Nick Casten	Phone: 432-559-6337	E-Mail: debbie simmons@eurofinset com	State of Origin:	Page: Page 1 of 2
Company: GHD Services Inc	PWSID:			Job #:
Address: 2135 South Loop 250 West	Due Date Requested:			
City: Midland	TAT Requested (days):			
State Zip: TX 79703	Compliance Project: Δ Yes Δ No			
Phone: 512-506-8803(Tel)	PO #: new PO			
Email: nick casten@ghd com	WO #: 12564966-02			
Project Name: Scout EP - Dollarhide	Project #: 88000225			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd TDS	300_ORGFM_28D Chloride	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	N		
NM-MW-7-W-222501	1-25	1115	G	W	N	N	X	X		
RRR-Ranch Windmill-W-222501	1-25	1130	G	W	N	N	X	X		
NM-MW-4-W-222501	1-25	1145	G	W	N	N	X	X		
NM-MW-8-W-222501	1-25	1205	G	W	N	N	X	X		
NM-MW-3-W-222501	1-25	1225	G	W	N	N	X	X		
NM-MW-2-W-222501	1-25	1235	G	W	N	N	X	X		
NM-MW-1-W-222501	1-25	1250	G	W	N	N	X	X		
NM-MW-5-W-222501	1-25	1310	G	W	N	N	X	X		
NM-MW-6-W-222501	1-25	1325	G	W	N	N	X	X		
NM-MW-10-W-222501	1-25	1500	G	W	N	N	X	X		
NM-MW-9-W-222501	1-25	1525	G	W	N	N	X	X		

880-10652 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Joe Mireles	1-27-22 / 1246	GHD		1/26/22 12 46	Xenco
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks

Ver: 01/16/2019

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins Environment Testing America

10616

Client Information	Sampler: Joe Mireles / Mitchell Clemens	Lab PM: Simmons Debbie	Carrier Tracking No(s):	COC No.: 880-2342-191 1
Client Contact: Nick Casten	Phone: 432-559-6337	E-Mail: debbie simmons@eurofinset com	State of Origin:	Page: Page 2 of 2
Company: GHD Services Inc	PWSID:			Job #:
Address: 2135 South Loop 250 West	Due Date Requested:			
City: Midland	TAT Requested (days):			
State Zip: TX, 79703	Compliance Project: Δ Yes Δ No			
Phone: 512-506-8803(Tel)	PO #: new PO			
Email: nick casten@ghd com	WO #: 12564966-02			
Project Name: Scout EP Dollarhide	Project #: 88000225			
S te	SSOW#:			

Analysis Requested

Preservation Codes

A HCL M Hexane
B NaOH N None
C Zn Acetate O AsNaO2
D Nitric Acid P Na2O4S
E NaHSO4 Q Na2SO3
F MeOH R Na2S2O3
G Amchlor S H2SO4
H Ascorbic Acid T TSP Dodecahydrate
I Ice U Acetone
J DI Water V MCAA
K EDTA W pH 4-5
L EDA Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd TDS	300_ORGFM_28D Chloride	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	N		
NM-MW-9-4W-222501	1-25	—	G	W	N	N	X	X		
NM-MW-14W-222501	1-25	1540	G	W	N	N	X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Joe Mireles	1-27-22 / 1246	GHD		1/26/22 12 46	Xenco
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-10652-1
SDG Number: 12564966-02

Login Number: 10652
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Midland

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

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-10726-1
Laboratory Sample Delivery Group: 12564966-02
Client Project/Site: Scout EP-Dollarhide

For:
GHD Services Inc.
2135 South Loop 250 West
Midland, Texas 79703

Attn: Nick G. Casten

Authorized for release by:
2/4/2022 5:33:54 PM

Debbie Simmons, Project Manager
(832)986-6768
debbie.simmons@eurofinset.com

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

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

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Laboratory Job ID: 880-10726-1
SDG: 12564966-02

Table of Contents

Definitions/Glossary

Client: GHD Services Inc. Job ID: 880-10726-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

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

Case Narrative

Client: GHD Services Inc. Job ID: 880-10726-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Job ID: 880-10726-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-10726-1

Receipt
The samples were received on 1/28/2022 4:16 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C

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

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

Client Sample Results

Client: GHD Services Inc. Job ID: 880-10726-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Client Sample ID: NM-MW-12-W-222701 Lab Sample ID: 880-10726-1

Date Collected: 01/27/22 10:50 **Matrix: Water**
Date Received: 01/28/22 16:16

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	417		0.500	0.200	mg/L			02/01/22 23:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1190		100	100	mg/L			02/02/22 10:51	1

Client Sample ID: NM-MW-17-W-222701 Lab Sample ID: 880-10726-2

Date Collected: 01/27/22 11:30 **Matrix: Water**
Date Received: 01/28/22 16:16

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	212		0.500	0.200	mg/L			02/02/22 03:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1140		50.0	50.0	mg/L			02/02/22 10:51	1

Client Sample ID: NM-MW-20-W-222701 Lab Sample ID: 880-10726-3

Date Collected: 01/27/22 11:55 **Matrix: Water**
Date Received: 01/28/22 16:16

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.8		0.500	0.200	mg/L			02/02/22 01:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	402		50.0	50.0	mg/L			02/02/22 10:51	1

Client Sample ID: NM-MW-21-W-222701 Lab Sample ID: 880-10726-4

Date Collected: 01/27/22 12:10 **Matrix: Water**
Date Received: 01/28/22 16:16

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.9		0.500	0.200	mg/L			02/02/22 01:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	536		50.0	50.0	mg/L			02/02/22 10:51	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10726-1
SDG: 12564966-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-39779/67
Matrix: Water
Analysis Batch: 39779

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200	mg/L			02/01/22 22:41	1

Lab Sample ID: LCS 860-39779/68
Matrix: Water
Analysis Batch: 39779

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			10.0	10.37		mg/L		104	90 - 110		

Lab Sample ID: LCSD 860-39779/69
Matrix: Water
Analysis Batch: 39779

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			10.0	10.76		mg/L		108	90 - 110	4	20

Lab Sample ID: 880-10726-1 MS
Matrix: Water
Analysis Batch: 39779

Client Sample ID: NM-MW-12-W-222701
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	417		10.0	420.7	4	mg/L		32	90 - 110		

Lab Sample ID: 880-10726-1 MSD
Matrix: Water
Analysis Batch: 39779

Client Sample ID: NM-MW-12-W-222701
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	417		10.0	420.4	4	mg/L		30	90 - 110	0	20

Lab Sample ID: 880-10726-2 MS
Matrix: Water
Analysis Batch: 39779

Client Sample ID: NM-MW-17-W-222701
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	212		10.0	218.9	4	mg/L		70	90 - 110		

Lab Sample ID: 880-10726-2 MSD
Matrix: Water
Analysis Batch: 39779

Client Sample ID: NM-MW-17-W-222701
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	212		10.0	218.9	4	mg/L		70	90 - 110	0	20

QC Sample Results

Client: GHD Services Inc. Job ID: 880-10726-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-39958/1 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 39958

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<25.0	U	25.0	25.0	mg/L			02/02/22 10:51	1

Lab Sample ID: LCS 860-39958/2 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 39958

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	1152		mg/L		115	80 - 120		

Lab Sample ID: LCSD 860-39958/3 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 39958

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1142		mg/L		114	80 - 120	1	10

QC Association Summary

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10726-1
SDG: 12564966-02

HPLC/IC

Analysis Batch: 39779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10726-1	NM-MW-12-W-222701	Total/NA	Water	300.0	
880-10726-2	NM-MW-17-W-222701	Total/NA	Water	300.0	
880-10726-3	NM-MW-20-W-222701	Total/NA	Water	300.0	
880-10726-4	NM-MW-21-W-222701	Total/NA	Water	300.0	
MB 860-39779/67	Method Blank	Total/NA	Water	300.0	
LCS 860-39779/68	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-39779/69	Lab Control Sample Dup	Total/NA	Water	300.0	
880-10726-1 MS	NM-MW-12-W-222701	Total/NA	Water	300.0	
880-10726-1 MSD	NM-MW-12-W-222701	Total/NA	Water	300.0	
880-10726-2 MS	NM-MW-17-W-222701	Total/NA	Water	300.0	
880-10726-2 MSD	NM-MW-17-W-222701	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 39958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10726-1	NM-MW-12-W-222701	Total/NA	Water	SM 2540C	
880-10726-2	NM-MW-17-W-222701	Total/NA	Water	SM 2540C	
880-10726-3	NM-MW-20-W-222701	Total/NA	Water	SM 2540C	
880-10726-4	NM-MW-21-W-222701	Total/NA	Water	SM 2540C	
MB 860-39958/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-39958/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-39958/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: GHD Services Inc. Job ID: 880-10726-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Client Sample ID: NM-MW-12-W-222701 Lab Sample ID: 880-10726-1

Date Collected: 01/27/22 10:50 **Matrix: Water**
Date Received: 01/28/22 16:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			39779	02/01/22 23:16	ANP	XEN STF
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	39958	02/02/22 10:51	ADL	XEN STF

Client Sample ID: NM-MW-17-W-222701 Lab Sample ID: 880-10726-2

Date Collected: 01/27/22 11:30 **Matrix: Water**
Date Received: 01/28/22 16:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			39779	02/02/22 03:20	ANP	XEN STF
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	39958	02/02/22 10:51	ADL	XEN STF

Client Sample ID: NM-MW-20-W-222701 Lab Sample ID: 880-10726-3

Date Collected: 01/27/22 11:55 **Matrix: Water**
Date Received: 01/28/22 16:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			39779	02/02/22 01:01	ANP	XEN STF
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	39958	02/02/22 10:51	ADL	XEN STF

Client Sample ID: NM-MW-21-W-222701 Lab Sample ID: 880-10726-4

Date Collected: 01/27/22 12:10 **Matrix: Water**
Date Received: 01/28/22 16:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			39779	02/02/22 01:12	ANP	XEN STF
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	39958	02/02/22 10:51	ADL	XEN STF

Laboratory References:

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: GHD Services Inc. Job ID: 880-10726-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Laboratory: Eurofins Houston

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	06-30-22

Method Summary

Client: GHD Services Inc. Job ID: 880-10726-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN STF

Protocol References:

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

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10726-1
SDG: 12564966-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-10726-1	NM-MW-12-W-222701	Water	01/27/22 10:50	01/28/22 16:16
880-10726-2	NM-MW-17-W-222701	Water	01/27/22 11:30	01/28/22 16:16
880-10726-3	NM-MW-20-W-222701	Water	01/27/22 11:55	01/28/22 16:16
880-10726-4	NM-MW-21-W-222701	Water	01/27/22 12:10	01/28/22 16:16

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins Environment Testing America

10726

Client Information	Sampler: Joe Murele, Mitch Clemens	Lab PM: Simmons Debbie	Carrier Tracking No(s):	COC No: 880-2342-191 1
Client Contact: Nick Casten	Phone: 432 559 6337	E-Mail: debbie simmons@eurofinset com	State of Origin:	Page: Page 1 of 1
Company: GHD Services Inc	PWSID:			Job #:

Address	Due Date Requested	Analysis Requested	Preservation Codes
2135 South Loop 250 West			A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)
City: Midland	TAT Requested (days):		
State Zip: TX, 79703	Compliance Project: Δ Yes Δ No		
Phone: 512-506-8803(Tel)	PO #: new PO		
Email: nick casten@ghd com	WO #: 12564966-02		
Project Name: Scout EP - Dollarhide	Project #: 88000225		
Site	SSOW#:		Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd - TDS	300_ORGFM_28D Chloride	Total Number of containers	Special Instructions/Note.
			Preservation Code:				N	N		
NM-MW-12-W-222701	1-27	1050	G	W	N	N	X	X		Please put this set of Samples on their own Report
NM-MW-17-W-222701	1-27	1130	G	W	N	N	X	X		
NM-MW-20-W-222701	1-27	1155	G	W	N	N	X	X		
NM-MW-21-W-222701	1-27	1210	G	W	N	N	X	X		

880-10726 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Joe Murele	1/28/22/1615				
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time.	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		.2/3 10 IR8

Ver: 01/16/2019

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record

Eurofins | Environment Testing America

2/4/2022

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Simmons, Debbie	96.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: debbie.simmons@eurofins	Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas	Job #: 880-10726-1
Address: 4145 Greenbriar Dr	Due Date Requested: 2/3/2022		
City: Stafford	TAT Requested (days):		
State, Zip: TX, 77477			
Phone: 281-240-4200(Tel)	PO #:		
Email:	WO #:		
Project Name: Scout EP-Dollarhide	Project #: 88000225		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/ Chloride	2540C_Calcd	Total Number of containers	Special Instructions/Note:
NM-MW-12-W-222701 (880-10726-1)	1/27/22	10:50 Mountain		Water			X	X		
NM-MW-17-W-222701 (880-10726-2)	1/27/22	11:30 Mountain		Water			X	X		
NM-MW-20-W-222701 (880-10726-3)	1/27/22	11:55 Mountain		Water			X	X		
NM-MW-21-W-222701 (880-10726-4)	1/27/22	12:10 Mountain		Water			X	X		

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II, III, IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/29/22 9:40	Company Xenco
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-10726-1
SDG Number: 12564966-02

Login Number: 10726
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-10727-1
Laboratory Sample Delivery Group: 12564966-02
Client Project/Site: Scout EP-Dollarhide

For:
GHD Services Inc.
2135 South Loop 250 West
Midland, Texas 79703

Attn: Nick G. Casten

Authorized for release by:
2/4/2022 5:36:44 PM

Debbie Simmons, Project Manager
(832)986-6768
debbie.simmons@eurofinset.com

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

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

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Laboratory Job ID: 880-10727-1
SDG: 12564966-02

Table of Contents

Definitions/Glossary

Client: GHD Services Inc. Job ID: 880-10727-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

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

Case Narrative

Client: GHD Services Inc. Job ID: 880-10727-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Job ID: 880-10727-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-10727-1

Receipt
The samples were received on 1/28/2022 4:19 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C

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

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

Client Sample Results

Client: GHD Services Inc. Job ID: 880-10727-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Client Sample ID: MW-32-W-222701 Lab Sample ID: 880-10727-1

Date Collected: 01/27/22 14:10 **Matrix: Water**
Date Received: 01/28/22 16:19

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	389		0.500	0.200	mg/L			02/01/22 19:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		100	100	mg/L			02/02/22 10:51	1

Client Sample ID: MW-33-W-222701 Lab Sample ID: 880-10727-2

Date Collected: 01/27/22 13:50 **Matrix: Water**
Date Received: 01/28/22 16:19

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	216		0.500	0.200	mg/L			02/01/22 19:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1220		50.0	50.0	mg/L			02/02/22 10:51	1

Client Sample ID: MW-34-W-222701 Lab Sample ID: 880-10727-3

Date Collected: 01/27/22 13:30 **Matrix: Water**
Date Received: 01/28/22 16:19

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.3		0.500	0.200	mg/L			02/01/22 20:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	661		50.0	50.0	mg/L			02/02/22 10:51	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10727-1
SDG: 12564966-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-39779/3
Matrix: Water
Analysis Batch: 39779

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200	mg/L			02/01/22 10:41	1

Lab Sample ID: MB 860-39779/39
Matrix: Water
Analysis Batch: 39779

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.200	U	0.500	0.200	mg/L			02/01/22 18:02	1

Lab Sample ID: LCS 860-39779/4
Matrix: Water
Analysis Batch: 39779

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.20		mg/L		102	90 - 110

Lab Sample ID: LCS 860-39779/40
Matrix: Water
Analysis Batch: 39779

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.48		mg/L		105	90 - 110

Lab Sample ID: LCSD 860-39779/41
Matrix: Water
Analysis Batch: 39779

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	10.91		mg/L		109	90 - 110	4	20

Lab Sample ID: LCSD 860-39779/5
Matrix: Water
Analysis Batch: 39779

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	10.67		mg/L		107	90 - 110	4	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-39958/1
Matrix: Water
Analysis Batch: 39958

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<25.0	U	25.0	25.0	mg/L			02/02/22 10:51	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10727-1
SDG: 12564966-02

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 860-39958/2
Matrix: Water
Analysis Batch: 39958

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	1152		mg/L		115	80 - 120

Lab Sample ID: LCSD 860-39958/3
Matrix: Water
Analysis Batch: 39958

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1142		mg/L		114	80 - 120	1	10

QC Association Summary

Client: GHD Services Inc. Job ID: 880-10727-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

HPLC/IC

Analysis Batch: 39779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10727-1	MW-32-W-222701	Total/NA	Water	300.0	
880-10727-2	MW-33-W-222701	Total/NA	Water	300.0	
880-10727-3	MW-34-W-222701	Total/NA	Water	300.0	
MB 860-39779/3	Method Blank	Total/NA	Water	300.0	
MB 860-39779/39	Method Blank	Total/NA	Water	300.0	
LCS 860-39779/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-39779/40	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-39779/41	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-39779/5	Lab Control Sample Dup	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 39958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10727-1	MW-32-W-222701	Total/NA	Water	SM 2540C	
880-10727-2	MW-33-W-222701	Total/NA	Water	SM 2540C	
880-10727-3	MW-34-W-222701	Total/NA	Water	SM 2540C	
MB 860-39958/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-39958/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-39958/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: GHD Services Inc. Job ID: 880-10727-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Client Sample ID: MW-32-W-222701 Lab Sample ID: 880-10727-1

Date Collected: 01/27/22 14:10 **Matrix: Water**
Date Received: 01/28/22 16:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			39779	02/01/22 19:35	ANP	XEN STF
Total/NA	Analysis	SM 2540C		1	50 mL	1000 mL	39958	02/02/22 10:51	ADL	XEN STF

Client Sample ID: MW-33-W-222701 Lab Sample ID: 880-10727-2

Date Collected: 01/27/22 13:50 **Matrix: Water**
Date Received: 01/28/22 16:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			39779	02/01/22 19:47	ANP	XEN STF
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	39958	02/02/22 10:51	ADL	XEN STF

Client Sample ID: MW-34-W-222701 Lab Sample ID: 880-10727-3

Date Collected: 01/27/22 13:30 **Matrix: Water**
Date Received: 01/28/22 16:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			39779	02/01/22 20:22	ANP	XEN STF
Total/NA	Analysis	SM 2540C		1	100 mL	1000 mL	39958	02/02/22 10:51	ADL	XEN STF

Laboratory References:

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: GHD Services Inc. Job ID: 880-10727-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Laboratory: Eurofins Houston

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	06-30-22

Method Summary

Client: GHD Services Inc. Job ID: 880-10727-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN STF

Protocol References:

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

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10727-1
SDG: 12564966-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-10727-1	MW-32-W-222701	Water	01/27/22 14:10	01/28/22 16:19
880-10727-2	MW-33-W-222701	Water	01/27/22 13:50	01/28/22 16:19
880-10727-3	MW-34-W-222701	Water	01/27/22 13:30	01/28/22 16:19

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins Environment Testing America

10727

Client Information	Sampler: Joe Mireles / Mitch Clemens	Lab PM: Simmons Debbie	Carrier Tracking No(s):	COC No: 880-2342-191 1
Client Contact: Nick Casten	Phone: 432-559-6337	E-Mail: debbie simmons@eurofinset com	State of Origin:	Page: Page 1 of 1
Company: GHD Services Inc	PWSID:			Job #:
Address: 2135 South Loop 250 West	Due Date Requested:			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79703	Compliance Project: Δ Yes Δ No			
Phone: 512-506-8803(Tel)	PO #: new PO			
Email: nick casten@ghd com	WO #: 12564966-02			
Project Name: Scout EP - Dollarhide	Project #: 88000225			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL	M Hexane		
B NaOH	N None		
C Zn Acetate	O AsNaO2		
D Nitric Acid	P Na2O4S		
E NaHSO4	Q Na2SO3		
F MeOH	R Na2S2O3		
G Amchlor	S H2SO4		
H Ascorbic Acid	T TSP Dodecahydrate		
I Ice	U Acetone		
J DI Water	V MCAA		
K EDTA	W pH 4-5		
L EDA	Z other (specify)		

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd TDS	300_ORGFM_28D Chloride	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	N		
MW-32-W-222701	1-27	1410	G	W	N	N	X	X		Please put these samples on their own report.
MW-33-W-222701	1-27	1350	G	W	N	N	X	X		
MW-34-W-222701	1-27	1330	G	W	N	N	X	X		

880-10727 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time:	Company
	Joe Mireles	1-28-22 1615		Patricia R		
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: .2 .3 .10 FRO

Ver 01/16/2019

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record

urofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Simmons, Debbie	:: 396.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: debbie.simmons@eurofins... New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas	Job #: 880-10727 1
Address: 4145 Greenbriar Dr	Due Date Requested: 2/3/2022		
City: Stafford	TAT Requested (days):		
State, Zip: TX, 77477			
Phone: 281-240-4200(Tel)	PO #:		
Email:	WO #:		
Project Name: Scout EP-Dollarhide	Project #: 88000225		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/ Chloride	2540C_Calcd	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-32-W-222701 (880-10727-1)	1/27/22	14.10 Mountain		Water			X	X		
MW-33-W-222701 (880-10727-2)	1/27/22	13:50 Mountain		Water			X	X		
MW-34-W-222701 (880-10727-3)	1/27/22	13:30 Mountain		Water			X	X		

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II III, IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.
Empty Kit Relinquished by:	Date: Time: Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 1/28/22 940	Company Xenco
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver 06/08/2021

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-10727-1
SDG Number: 12564966-02

Login Number: 10727
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-10728-1
Laboratory Sample Delivery Group: 12564966-02
Client Project/Site: Scout EP-Dollarhide
Revision: 1

For:
GHD Services Inc.
2135 South Loop 250 West
Midland, Texas 79703

Attn: Nick G. Casten

Authorized for release by:
3/2/2022 2:15:49 PM

Debbie Simmons, Project Manager
(832)986-6768
debbie.simmons@eurofinset.com

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

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

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Laboratory Job ID: 880-10728-1
SDG: 12564966-02

Table of Contents

Definitions/Glossary

Client: GHD Services Inc. Job ID: 880-10728-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

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

Case Narrative

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10728-1
SDG: 12564966-02

Job ID: 880-10728-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-10728-1

Comments
No additional comments.

Revision
The report being provided is a revision of the original report sent on 2/16/2022. The report (revision 1) is being revised due to: per GHD update various sample IDs on job 880-10786 and 880-10728 and revise report and EDD.

Receipt
The samples were received on 1/28/2022 4:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.3º C.

General Chemistry
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 880-18639 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300.0: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); associated laboratory control sample (LCS) met acceptance criteria.

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

Client Sample Results

Client: GHD Services Inc. Job ID: 880-10728-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Client Sample ID: Wilson Ranch Well-W-222701 Lab Sample ID: 880-10728-1
Date Collected: 01/27/22 11:50 **Matrix: Water**
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	959		10.0	0.421	mg/L			02/06/22 18:58	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1780		100	100	mg/L			01/29/22 15:58	1

Client Sample ID: Smith Residence-W-222701 Lab Sample ID: 880-10728-2
Date Collected: 01/27/22 13:00 **Matrix: Water**
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	868		10.0	0.421	mg/L			02/06/22 19:59	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1830		100	100	mg/L			01/29/22 15:58	1

Client Sample ID: 58-B-3-MW-W-222701 Lab Sample ID: 880-10728-3
Date Collected: 01/27/22 13:10 **Matrix: Water**
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1870		25.0	1.05	mg/L			02/06/22 20:21	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3360		200	200	mg/L			01/29/22 15:58	1

Client Sample ID: MW-29-W-222701 Lab Sample ID: 880-10728-4
Date Collected: 01/27/22 14:45 **Matrix: Water**
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	572		5.00	0.210	mg/L			02/06/22 20:29	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1290		100	100	mg/L			01/29/22 15:58	1

Client Sample ID: MW-28-W-222701 Lab Sample ID: 880-10728-5
Date Collected: 01/27/22 15:00 **Matrix: Water**
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4190		25.0	1.05	mg/L			02/06/22 20:36	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	7390		500	500	mg/L			01/29/22 15:58	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10728-1
SDG: 12564966-02

Client Sample ID: 58-B-2-MW-W-222701
Lab Sample ID: 880-10728-6
Date Collected: 01/27/22 15:30
Matrix: Water
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3830		25.0	1.05	mg/L			02/06/22 20:44	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6450		500	500	mg/L			01/29/22 15:58	1

Client Sample ID: 58-B-1-MW-W-222701
Lab Sample ID: 880-10728-7
Date Collected: 01/27/22 15:45
Matrix: Water
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6740		50.0	2.10	mg/L			02/06/22 21:06	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10400		500	500	mg/L			01/29/22 15:58	1

Client Sample ID: MW-9-W-222701
Lab Sample ID: 880-10728-8
Date Collected: 01/27/22 16:00
Matrix: Water
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2830		25.0	1.05	mg/L			02/06/22 21:14	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4880		200	200	mg/L			01/29/22 15:58	1

Client Sample ID: MW-8-W-222701
Lab Sample ID: 880-10728-9
Date Collected: 01/27/22 16:20
Matrix: Water
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1010		10.0	0.421	mg/L			02/06/22 21:21	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2930		200	200	mg/L			01/29/22 15:58	1

Client Sample ID: MW-29-WD-222701
Lab Sample ID: 880-10728-10
Date Collected: 01/28/22 00:00
Matrix: Water
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	576		5.00	0.210	mg/L			02/06/22 21:29	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1350		100	100	mg/L			01/29/22 15:58	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10728-1
SDG: 12564966-02

Client Sample ID: MW-27-W-222801
Lab Sample ID: 880-10728-11
Date Collected: 01/28/22 10:00
Matrix: Water
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2360		25.0	1.05	mg/L			02/06/22 21:37	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4260		200	200	mg/L			01/29/22 15:58	1

Client Sample ID: MW-20-W-222801
Lab Sample ID: 880-10728-12
Date Collected: 01/28/22 10:15
Matrix: Water
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1170		10.0	0.421	mg/L			02/06/22 21:44	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2670		200	200	mg/L			01/29/22 15:58	1

Client Sample ID: 45-F-1-MW-W-222801
Lab Sample ID: 880-10728-13
Date Collected: 01/28/22 10:35
Matrix: Water
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	974		10.0	0.421	mg/L			02/06/22 22:07	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1960		100	100	mg/L			01/29/22 16:18	1

Client Sample ID: 45-FF-MW-W-222801
Lab Sample ID: 880-10728-14
Date Collected: 01/28/22 10:45
Matrix: Water
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3680		25.0	1.05	mg/L			02/06/22 22:14	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6710		500	500	mg/L			01/29/22 16:18	1

Client Sample ID: 45-E-2-MW-W-222801
Lab Sample ID: 880-10728-15
Date Collected: 01/28/22 11:00
Matrix: Water
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1620		25.0	1.05	mg/L			02/06/22 22:37	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3140		200	200	mg/L			01/29/22 16:18	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc. Job ID: 880-10728-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Client Sample ID: 45-E-1-MW-W-222801 — Lab Sample ID: 880-10728-16

Date Collected: 01/28/22 11:10 **Matrix: Water**
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3580		25.0	1.05	mg/L			02/06/22 22:45	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	8540		500	500	mg/L			01/29/22 16:18	1

Client Sample ID: 44-I-1-MW-W-222801 — Lab Sample ID: 880-10728-17

Date Collected: 01/28/22 11:25 **Matrix: Water**
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4260		25.0	1.05	mg/L			02/06/22 22:52	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	7150		500	500	mg/L			01/29/22 16:18	1

Client Sample ID: 44-J-1-MW-W-222801 — Lab Sample ID: 880-10728-18

Date Collected: 01/28/22 11:35 **Matrix: Water**
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4940		25.0	1.05	mg/L			02/06/22 23:00	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	8460		500	500	mg/L			01/29/22 16:18	1

Client Sample ID: 44-J-5-MW-W-222801 — Lab Sample ID: 880-10728-19

Date Collected: 01/28/22 11:45 **Matrix: Water**
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4980		25.0	1.05	mg/L			02/06/22 23:07	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	8100		500	500	mg/L			01/29/22 16:18	1

Client Sample ID: 44-J-4-MW-W-222801 — Lab Sample ID: 880-10728-20

Date Collected: 01/28/22 11:55 **Matrix: Water**
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5170		25.0	1.05	mg/L			02/06/22 23:15	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	8250		500	500	mg/L			01/29/22 16:18	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10728-1
SDG: 12564966-02

Client Sample ID: 44-J-3-MW-W-222801
Lab Sample ID: 880-10728-21
Date Collected: 01/28/22 12:05
Matrix: Water
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5810		25.0	1.05	mg/L			02/06/22 23:23	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	9650		500	500	mg/L			01/29/22 16:18	1

Client Sample ID: 44-J-2-MW-W-222801
Lab Sample ID: 880-10728-22
Date Collected: 01/28/22 12:15
Matrix: Water
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5470		25.0	1.05	mg/L			02/07/22 00:23	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	8630		500	500	mg/L			01/29/22 16:18	1

Client Sample ID: MW-19-W-222801
Lab Sample ID: 880-10728-23
Date Collected: 01/28/22 12:45
Matrix: Water
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8620		50.0	2.10	mg/L			02/07/22 00:46	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	13800		500	500	mg/L			01/29/22 16:18	1

Client Sample ID: MW-18-W-222801
Lab Sample ID: 880-10728-24
Date Collected: 01/28/22 13:00
Matrix: Water
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22600		100	4.21	mg/L			02/07/22 00:53	200

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	36200		1000	1000	mg/L			01/29/22 16:18	1

Client Sample ID: MW-12-W-222801
Lab Sample ID: 880-10728-25
Date Collected: 01/28/22 13:10
Matrix: Water
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12200		50.0	2.10	mg/L			02/07/22 01:01	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	22500		1000	1000	mg/L			01/29/22 16:18	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10728-1
SDG: 12564966-02

Client Sample ID: MW-31-W-222801
Lab Sample ID: 880-10728-26
Date Collected: 01/28/22 13:20
Matrix: Water
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10200		50.0	2.10	mg/L			02/07/22 01:08	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	16400		500	500	mg/L			01/29/22 16:18	1

Client Sample ID: MW-10-W-222801
Lab Sample ID: 880-10728-27
Date Collected: 01/28/22 13:40
Matrix: Water
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5320		25.0	1.05	mg/L			02/07/22 01:31	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	8460		500	500	mg/L			01/29/22 16:18	1

Client Sample ID: MW-26-W-222801
Lab Sample ID: 880-10728-28
Date Collected: 01/28/22 14:00
Matrix: Water
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1510		25.0	1.05	mg/L			02/07/22 01:38	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4540		200	200	mg/L			01/29/22 16:18	1

Client Sample ID: MW-24-W-222801
Lab Sample ID: 880-10728-29
Date Collected: 01/28/22 14:10
Matrix: Water
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4760		25.0	1.05	mg/L			02/07/22 01:46	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	11800		500	500	mg/L			01/29/22 16:18	1

Client Sample ID: MW-10-WD-222801
Lab Sample ID: 880-10728-30
Date Collected: 01/28/22 00:00
Matrix: Water
Date Received: 01/28/22 16:20

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5310		25.0	1.05	mg/L			02/07/22 01:54	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	8560		500	500	mg/L			01/29/22 16:18	1

Eurofins Midland

QC Sample Results

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10728-1
SDG: 12564966-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-18638/3
Matrix: Water
Analysis Batch: 18638

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.0210	U	0.500	0.0210	mg/L			02/06/22 15:11	1

Lab Sample ID: LCS 880-18638/4
Matrix: Water
Analysis Batch: 18638

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	24.12		mg/L		96	90 - 110

Lab Sample ID: LCSD 880-18638/5
Matrix: Water
Analysis Batch: 18638

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	25.0	24.10		mg/L		96	90 - 110	0	20

Lab Sample ID: MB 880-18639/3
Matrix: Water
Analysis Batch: 18639

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.0210	U	0.500	0.0210	mg/L			02/06/22 19:36	1

Lab Sample ID: LCS 880-18639/4
Matrix: Water
Analysis Batch: 18639

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	24.52		mg/L		98	90 - 110

Lab Sample ID: LCSD 880-18639/5
Matrix: Water
Analysis Batch: 18639

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	25.0	24.61		mg/L		98	90 - 110	0	20

Lab Sample ID: 880-10728-2 MS
Matrix: Water
Analysis Batch: 18639

Client Sample ID: Smith Residence-W-222701
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	868		500	1421	N1	mg/L		111	90 - 110

Lab Sample ID: 880-10728-2 MSD
Matrix: Water
Analysis Batch: 18639

Client Sample ID: Smith Residence-W-222701
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	868		500	1404		mg/L		107	90 - 110	1	20

QC Sample Results

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10728-1
SDG: 12564966-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-10728-12 MS
Matrix: Water
Analysis Batch: 18639

Client Sample ID: MW-20-W-222801
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1170		500	1649		mg/L		97	90 - 110

Lab Sample ID: 880-10728-12 MSD
Matrix: Water
Analysis Batch: 18639

Client Sample ID: MW-20-W-222801
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1170		500	1644		mg/L		95	90 - 110	0	20

Lab Sample ID: MB 880-18640/3
Matrix: Water
Analysis Batch: 18640

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.0210	U	0.500	0.0210	mg/L			02/07/22 00:00	1

Lab Sample ID: LCS 880-18640/4
Matrix: Water
Analysis Batch: 18640

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	23.49		mg/L		94	90 - 110

Lab Sample ID: LCSD 880-18640/5
Matrix: Water
Analysis Batch: 18640

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	25.0	24.48		mg/L		98	90 - 110	4	20

Lab Sample ID: 880-10728-22 MS
Matrix: Water
Analysis Batch: 18640

Client Sample ID: 44-J-2-MW-W-222801
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5470		1250	5691	4	mg/L		18	90 - 110

Lab Sample ID: 880-10728-22 MSD
Matrix: Water
Analysis Batch: 18640

Client Sample ID: 44-J-2-MW-W-222801
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5470		1250	6134	4	mg/L		53	90 - 110	7	20

QC Sample Results

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10728-1
SDG: 12564966-02

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 880-18096/1
Matrix: Water
Analysis Batch: 18096

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<25.0	U	25.0	25.0	mg/L			01/29/22 15:58	1

Lab Sample ID: LCS 880-18096/2
Matrix: Water
Analysis Batch: 18096

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	1004		mg/L		100	80 - 120

Lab Sample ID: LCSD 880-18096/3
Matrix: Water
Analysis Batch: 18096

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	1000	995.0		mg/L		100	80 - 120	1	10

Lab Sample ID: 880-10728-3 DU
Matrix: Water
Analysis Batch: 18096

Client Sample ID: 58-B-3-MW-W-222701
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	3360		3332		mg/L		0.7	10

Lab Sample ID: MB 880-18097/1
Matrix: Water
Analysis Batch: 18097

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<25.0	U	25.0	25.0	mg/L			01/29/22 16:18	1

Lab Sample ID: LCS 880-18097/2
Matrix: Water
Analysis Batch: 18097

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	1004		mg/L		100	80 - 120

Lab Sample ID: LCSD 880-18097/3
Matrix: Water
Analysis Batch: 18097

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1000		mg/L		100	80 - 120	0	10

Lab Sample ID: 880-10728-13 DU
Matrix: Water
Analysis Batch: 18097

Client Sample ID: 45-F-1-MW-W-222801
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1960		1966		mg/L		0.2	10

QC Sample Results

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10728-1
SDG: 12564966-02

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: 880-10728-23 DU
Matrix: Water
Analysis Batch: 18097

Client Sample ID: MW-19-W-222801
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	13800			13390		mg/L				3	10

QC Association Summary

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10728-1
SDG: 12564966-02

HPLC/IC

Analysis Batch: 18638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10728-1	Wilson Ranch Well-W-222701	Total/NA	Water	300.0	
MB 880-18638/3	Method Blank	Total/NA	Water	300.0	
LCS 880-18638/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-18638/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 18639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10728-2	Smith Residence-W-222701	Total/NA	Water	300.0	
880-10728-3	58-B-3-MW-W-222701	Total/NA	Water	300.0	
880-10728-4	MW-29-W-222701	Total/NA	Water	300.0	
880-10728-5	MW-28-W-222701	Total/NA	Water	300.0	
880-10728-6	58-B-2-MW-W-222701	Total/NA	Water	300.0	
880-10728-7	58-B-1-MW-W-222701	Total/NA	Water	300.0	
880-10728-8	MW-9-W-222701	Total/NA	Water	300.0	
880-10728-9	MW-8-W-222701	Total/NA	Water	300.0	
880-10728-10	MW-29-WD-222701	Total/NA	Water	300.0	
880-10728-11	MW-27-W-222801	Total/NA	Water	300.0	
880-10728-12	MW-20-W-222801	Total/NA	Water	300.0	
880-10728-13	45-F-1-MW-W-222801	Total/NA	Water	300.0	
880-10728-14	45-FF-MW-W-222801	Total/NA	Water	300.0	
880-10728-15	45-E-2-MW-W-222801	Total/NA	Water	300.0	
880-10728-16	45-E-1-MW-W-222801	Total/NA	Water	300.0	
880-10728-17	44-I-1-MW-W-222801	Total/NA	Water	300.0	
880-10728-18	44-J-1-MW-W-222801	Total/NA	Water	300.0	
880-10728-19	44-J-5-MW-W-222801	Total/NA	Water	300.0	
880-10728-20	44-J-4-MW-W-222801	Total/NA	Water	300.0	
880-10728-21	44-J-3-MW-W-222801	Total/NA	Water	300.0	
MB 880-18639/3	Method Blank	Total/NA	Water	300.0	
LCS 880-18639/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-18639/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-10728-2 MS	Smith Residence-W-222701	Total/NA	Water	300.0	
880-10728-2 MSD	Smith Residence-W-222701	Total/NA	Water	300.0	
880-10728-12 MS	MW-20-W-222801	Total/NA	Water	300.0	
880-10728-12 MSD	MW-20-W-222801	Total/NA	Water	300.0	

Analysis Batch: 18640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10728-22	44-J-2-MW-W-222801	Total/NA	Water	300.0	
880-10728-23	MW-19-W-222801	Total/NA	Water	300.0	
880-10728-24	MW-18-W-222801	Total/NA	Water	300.0	
880-10728-25	MW-12-W-222801	Total/NA	Water	300.0	
880-10728-26	MW-31-W-222801	Total/NA	Water	300.0	
880-10728-27	MW-10-W-222801	Total/NA	Water	300.0	
880-10728-28	MW-26-W-222801	Total/NA	Water	300.0	
880-10728-29	MW-24-W-222801	Total/NA	Water	300.0	
880-10728-30	MW-10-WD-222801	Total/NA	Water	300.0	
MB 880-18640/3	Method Blank	Total/NA	Water	300.0	
LCS 880-18640/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-18640/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-10728-22 MS	44-J-2-MW-W-222801	Total/NA	Water	300.0	
880-10728-22 MSD	44-J-2-MW-W-222801	Total/NA	Water	300.0	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10728-1
SDG: 12564966-02

General Chemistry

Analysis Batch: 18096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10728-1	Wilson Ranch Well-W-222701	Total/NA	Water	SM 2540C	
880-10728-2	Smith Residence-W-222701	Total/NA	Water	SM 2540C	
880-10728-3	58-B-3-MW-W-222701	Total/NA	Water	SM 2540C	
880-10728-4	MW-29-W-222701	Total/NA	Water	SM 2540C	
880-10728-5	MW-28-W-222701	Total/NA	Water	SM 2540C	
880-10728-6	58-B-2-MW-W-222701	Total/NA	Water	SM 2540C	
880-10728-7	58-B-1-MW-W-222701	Total/NA	Water	SM 2540C	
880-10728-8	MW-9-W-222701	Total/NA	Water	SM 2540C	
880-10728-9	MW-8-W-222701	Total/NA	Water	SM 2540C	
880-10728-10	MW-29-WD-222701	Total/NA	Water	SM 2540C	
880-10728-11	MW-27-W-222801	Total/NA	Water	SM 2540C	
880-10728-12	MW-20-W-222801	Total/NA	Water	SM 2540C	
MB 880-18096/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 880-18096/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 880-18096/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
880-10728-3 DU	58-B-3-MW-W-222701	Total/NA	Water	SM 2540C	

Analysis Batch: 18097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10728-13	45-F-1-MW-W-222801	Total/NA	Water	SM 2540C	
880-10728-14	45-FF-MW-W-222801	Total/NA	Water	SM 2540C	
880-10728-15	45-E-2-MW-W-222801	Total/NA	Water	SM 2540C	
880-10728-16	45-E-1-MW-W-222801	Total/NA	Water	SM 2540C	
880-10728-17	44-I-1-MW-W-222801	Total/NA	Water	SM 2540C	
880-10728-18	44-J-1-MW-W-222801	Total/NA	Water	SM 2540C	
880-10728-19	44-J-5-MW-W-222801	Total/NA	Water	SM 2540C	
880-10728-20	44-J-4-MW-W-222801	Total/NA	Water	SM 2540C	
880-10728-21	44-J-3-MW-W-222801	Total/NA	Water	SM 2540C	
880-10728-22	44-J-2-MW-W-222801	Total/NA	Water	SM 2540C	
880-10728-23	MW-19-W-222801	Total/NA	Water	SM 2540C	
880-10728-24	MW-18-W-222801	Total/NA	Water	SM 2540C	
880-10728-25	MW-12-W-222801	Total/NA	Water	SM 2540C	
880-10728-26	MW-31-W-222801	Total/NA	Water	SM 2540C	
880-10728-27	MW-10-W-222801	Total/NA	Water	SM 2540C	
880-10728-28	MW-26-W-222801	Total/NA	Water	SM 2540C	
880-10728-29	MW-24-W-222801	Total/NA	Water	SM 2540C	
880-10728-30	MW-10-WD-222801	Total/NA	Water	SM 2540C	
MB 880-18097/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 880-18097/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 880-18097/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
880-10728-13 DU	45-F-1-MW-W-222801	Total/NA	Water	SM 2540C	
880-10728-23 DU	MW-19-W-222801	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: GHD Services Inc. Job ID: 880-10728-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Client Sample ID: Wilson Ranch Well-W-222701 Lab Sample ID: 880-10728-1

Date Collected: 01/27/22 11:50 **Matrix: Water**
Date Received: 01/28/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		20			18638	02/06/22 18:58	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	18096	01/29/22 15:58	SC	XEN MID

Client Sample ID: Smith Residence-W-222701 Lab Sample ID: 880-10728-2

Date Collected: 01/27/22 13:00 **Matrix: Water**
Date Received: 01/28/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		20			18639	02/06/22 19:59	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	18096	01/29/22 15:58	SC	XEN MID

Client Sample ID: 58-B-3-MW-W-222701 Lab Sample ID: 880-10728-3

Date Collected: 01/27/22 13:10 **Matrix: Water**
Date Received: 01/28/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			18639	02/06/22 20:21	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	18096	01/29/22 15:58	SC	XEN MID

Client Sample ID: MW-29-W-222701 Lab Sample ID: 880-10728-4

Date Collected: 01/27/22 14:45 **Matrix: Water**
Date Received: 01/28/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			18639	02/06/22 20:29	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	18096	01/29/22 15:58	SC	XEN MID

Client Sample ID: MW-28-W-222701 Lab Sample ID: 880-10728-5

Date Collected: 01/27/22 15:00 **Matrix: Water**
Date Received: 01/28/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			18639	02/06/22 20:36	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	18096	01/29/22 15:58	SC	XEN MID

Client Sample ID: 58-B-2-MW-W-222701 Lab Sample ID: 880-10728-6

Date Collected: 01/27/22 15:30 **Matrix: Water**
Date Received: 01/28/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			18639	02/06/22 20:44	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	18096	01/29/22 15:58	SC	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10728-1
SDG: 12564966-02

Client Sample ID: 58-B-1-MW-W-222701
Lab Sample ID: 880-10728-7
Date Collected: 01/27/22 15:45
Matrix: Water
Date Received: 01/28/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		100			18639	02/06/22 21:06	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	18096	01/29/22 15:58	SC	XEN MID

Client Sample ID: MW-9-W-222701
Lab Sample ID: 880-10728-8
Date Collected: 01/27/22 16:00
Matrix: Water
Date Received: 01/28/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			18639	02/06/22 21:14	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	18096	01/29/22 15:58	SC	XEN MID

Client Sample ID: MW-8-W-222701
Lab Sample ID: 880-10728-9
Date Collected: 01/27/22 16:20
Matrix: Water
Date Received: 01/28/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		20			18639	02/06/22 21:21	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	18096	01/29/22 15:58	SC	XEN MID

Client Sample ID: MW-29-WD-222701
Lab Sample ID: 880-10728-10
Date Collected: 01/28/22 00:00
Matrix: Water
Date Received: 01/28/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			18639	02/06/22 21:29	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	18096	01/29/22 15:58	SC	XEN MID

Client Sample ID: MW-27-W-222801
Lab Sample ID: 880-10728-11
Date Collected: 01/28/22 10:00
Matrix: Water
Date Received: 01/28/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			18639	02/06/22 21:37	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	18096	01/29/22 15:58	SC	XEN MID

Client Sample ID: MW-20-W-222801
Lab Sample ID: 880-10728-12
Date Collected: 01/28/22 10:15
Matrix: Water
Date Received: 01/28/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		20			18639	02/06/22 21:44	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	18096	01/29/22 15:58	SC	XEN MID

Lab Chronicle

Client: GHD Services Inc. Job ID: 880-10728-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Client Sample ID: 45-F-1-MW-W-222801 Lab Sample ID: 880-10728-13

Date Collected: 01/28/22 10:35 **Matrix: Water**
Date Received: 01/28/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		20			18639	02/06/22 22:07	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	18097	01/29/22 16:18	SC	XEN MID

Client Sample ID: 45-FF-MW-W-222801 Lab Sample ID: 880-10728-14

Date Collected: 01/28/22 10:45 **Matrix: Water**
Date Received: 01/28/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			18639	02/06/22 22:14	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	18097	01/29/22 16:18	SC	XEN MID

Client Sample ID: 45-E-2-MW-W-222801 Lab Sample ID: 880-10728-15

Date Collected: 01/28/22 11:00 **Matrix: Water**
Date Received: 01/28/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			18639	02/06/22 22:37	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	18097	01/29/22 16:18	SC	XEN MID

Client Sample ID: 45-E-1-MW-W-222801 Lab Sample ID: 880-10728-16

Date Collected: 01/28/22 11:10 **Matrix: Water**
Date Received: 01/28/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			18639	02/06/22 22:45	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	18097	01/29/22 16:18	SC	XEN MID

Client Sample ID: 44-I-1-MW-W-222801 Lab Sample ID: 880-10728-17

Date Collected: 01/28/22 11:25 **Matrix: Water**
Date Received: 01/28/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			18639	02/06/22 22:52	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	18097	01/29/22 16:18	SC	XEN MID

Client Sample ID: 44-J-1-MW-W-222801 Lab Sample ID: 880-10728-18

Date Collected: 01/28/22 11:35 **Matrix: Water**
Date Received: 01/28/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			18639	02/06/22 23:00	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	18097	01/29/22 16:18	SC	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10728-1
SDG: 12564966-02

Client Sample ID: 44-J-5-MW-W-222801
Lab Sample ID: 880-10728-19
Date Collected: 01/28/22 11:45
Matrix: Water
Date Received: 01/28/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			18639	02/06/22 23:07	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	18097	01/29/22 16:18	SC	XEN MID

Client Sample ID: 44-J-4-MW-W-222801
Lab Sample ID: 880-10728-20
Date Collected: 01/28/22 11:55
Matrix: Water
Date Received: 01/28/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			18639	02/06/22 23:15	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	18097	01/29/22 16:18	SC	XEN MID

Client Sample ID: 44-J-3-MW-W-222801
Lab Sample ID: 880-10728-21
Date Collected: 01/28/22 12:05
Matrix: Water
Date Received: 01/28/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			18639	02/06/22 23:23	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	18097	01/29/22 16:18	SC	XEN MID

Client Sample ID: 44-J-2-MW-W-222801
Lab Sample ID: 880-10728-22
Date Collected: 01/28/22 12:15
Matrix: Water
Date Received: 01/28/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			18640	02/07/22 00:23	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	18097	01/29/22 16:18	SC	XEN MID

Client Sample ID: MW-19-W-222801
Lab Sample ID: 880-10728-23
Date Collected: 01/28/22 12:45
Matrix: Water
Date Received: 01/28/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		100			18640	02/07/22 00:46	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	18097	01/29/22 16:18	SC	XEN MID

Client Sample ID: MW-18-W-222801
Lab Sample ID: 880-10728-24
Date Collected: 01/28/22 13:00
Matrix: Water
Date Received: 01/28/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		200			18640	02/07/22 00:53	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	5 mL	200 mL	18097	01/29/22 16:18	SC	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10728-1
SDG: 12564966-02

Client Sample ID: MW-12-W-222801
Date Collected: 01/28/22 13:10
Date Received: 01/28/22 16:20

Lab Sample ID: 880-10728-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		100			18640	02/07/22 01:01	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	5 mL	200 mL	18097	01/29/22 16:18	SC	XEN MID

Client Sample ID: MW-31-W-222801
Date Collected: 01/28/22 13:20
Date Received: 01/28/22 16:20

Lab Sample ID: 880-10728-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		100			18640	02/07/22 01:08	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	18097	01/29/22 16:18	SC	XEN MID

Client Sample ID: MW-10-W-222801
Date Collected: 01/28/22 13:40
Date Received: 01/28/22 16:20

Lab Sample ID: 880-10728-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			18640	02/07/22 01:31	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	18097	01/29/22 16:18	SC	XEN MID

Client Sample ID: MW-26-W-222801
Date Collected: 01/28/22 14:00
Date Received: 01/28/22 16:20

Lab Sample ID: 880-10728-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			18640	02/07/22 01:38	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	18097	01/29/22 16:18	SC	XEN MID

Client Sample ID: MW-24-W-222801
Date Collected: 01/28/22 14:10
Date Received: 01/28/22 16:20

Lab Sample ID: 880-10728-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			18640	02/07/22 01:46	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	18097	01/29/22 16:18	SC	XEN MID

Client Sample ID: MW-10-WD-222801
Date Collected: 01/28/22 00:00
Date Received: 01/28/22 16:20

Lab Sample ID: 880-10728-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			18640	02/07/22 01:54	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	18097	01/29/22 16:18	SC	XEN MID

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

Eurofins Midland

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10728-1
SDG: 12564966-02

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

Method Summary

Client: GHD Services Inc. Job ID: 880-10728-1
Project/Site: Scout EP-Dollarhide SDG: 12564966-02

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN MID

Protocol References:

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

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

Client: GHD Services Inc.
Project/Site: Scout EP-Dollarhide

Job ID: 880-10728-1
SDG: 12564966-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-10728-1	Wilson Ranch Well-W-222701	Water	01/27/22 11:50	01/28/22 16:20
880-10728-2	Smith Residence-W-222701	Water	01/27/22 13:00	01/28/22 16:20
880-10728-3	58-B-3-MW-W-222701	Water	01/27/22 13:10	01/28/22 16:20
880-10728-4	MW-29-W-222701	Water	01/27/22 14:45	01/28/22 16:20
880-10728-5	MW-28-W-222701	Water	01/27/22 15:00	01/28/22 16:20
880-10728-6	58-B-2-MW-W-222701	Water	01/27/22 15:30	01/28/22 16:20
880-10728-7	58-B-1-MW-W-222701	Water	01/27/22 15:45	01/28/22 16:20
880-10728-8	MW-9-W-222701	Water	01/27/22 16:00	01/28/22 16:20
880-10728-9	MW-8-W-222701	Water	01/27/22 16:20	01/28/22 16:20
880-10728-10	MW-29-WD-222701	Water	01/28/22 00:00	01/28/22 16:20
880-10728-11	MW-27-W-222801	Water	01/28/22 10:00	01/28/22 16:20
880-10728-12	MW-20-W-222801	Water	01/28/22 10:15	01/28/22 16:20
880-10728-13	45-F-1-MW-W-222801	Water	01/28/22 10:35	01/28/22 16:20
880-10728-14	45-FF-MW-W-222801	Water	01/28/22 10:45	01/28/22 16:20
880-10728-15	45-E-2-MW-W-222801	Water	01/28/22 11:00	01/28/22 16:20
880-10728-16	45-E-1-MW-W-222801	Water	01/28/22 11:10	01/28/22 16:20
880-10728-17	44-I-1-MW-W-222801	Water	01/28/22 11:25	01/28/22 16:20
880-10728-18	44-J-1-MW-W-222801	Water	01/28/22 11:35	01/28/22 16:20
880-10728-19	44-J-5-MW-W-222801	Water	01/28/22 11:45	01/28/22 16:20
880-10728-20	44-J-4-MW-W-222801	Water	01/28/22 11:55	01/28/22 16:20
880-10728-21	44-J-3-MW-W-222801	Water	01/28/22 12:05	01/28/22 16:20
880-10728-22	44-J-2-MW-W-222801	Water	01/28/22 12:15	01/28/22 16:20
880-10728-23	MW-19-W-222801	Water	01/28/22 12:45	01/28/22 16:20
880-10728-24	MW-18-W-222801	Water	01/28/22 13:00	01/28/22 16:20
880-10728-25	MW-12-W-222801	Water	01/28/22 13:10	01/28/22 16:20
880-10728-26	MW-31-W-222801	Water	01/28/22 13:20	01/28/22 16:20
880-10728-27	MW-10-W-222801	Water	01/28/22 13:40	01/28/22 16:20
880-10728-28	MW-26-W-222801	Water	01/28/22 14:00	01/28/22 16:20
880-10728-29	MW-24-W-222801	Water	01/28/22 14:10	01/28/22 16:20
880-10728-30	MW-10-WD-222801	Water	01/28/22 00:00	01/28/22 16:20

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins Environment Testing America

10728

Client Information	Sampler: Joe Mireles / Mitch Clemens	Lab PM: Simmons Debbie	Carrier Tracking No(s):	COC No: 880-2342-191 1
Client Contact: Nick Casten	Phone:	E-Mail: debbie simmons@eurofinset.com	State of Origin:	Page: Page 1 of 3
Company: GHD Services Inc	PWSID:			Job #:
Address: 2135 South Loop 250 West	Due Date Requested:			
City: Midland	TAT Requested (days):			
State Zip: TX 79703	Compliance Project: Δ Yes Δ No			
Phone: 512-506-8803(Tel)	PO #: new PO			
Email: nick casten@ghd com	WO #: 12564966-02			
Project Name: Scout EP - Dollarhide	Project #: 88000225			
Site	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd TDS	300_ORGFM_28D Chloride	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	N		
Wilson Ranch well-W-222701	1-27	1150	G	W	N	N	X	X		
Smith Residence-W-222701	1-27	1300	G	W	N	N	X	X		
MW-58-B-3-W-222701	1-27	1310	G	W	N	N	X	X		
MW-29-W-222701	1-27	1445	G	W	N	N	X	X		
MW-28-W-222701	1-27	1500	G	W	N	N	X	X		
MW-58-B-2-W-222701	1-27	1530	G	W	N	N	X	X		
MW-58-B-1-W-222701	1-27	1545	G	W	N	N	X	X		
MW-9-W-222701	1-27	1600	G	W	N	N	X	X		
MW-8-W-222701	1-27	1620	G	W	N	N	X	X		
DHG-EWS-W-222701	1-27	1635	G	W	N	N	X	X		
MW-29-WD-222701	1-27	—	G	W	N	N	X	X		

880-10728 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Joe Mireles	1-28-22/1615		Antonio P		
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		0.2/3 10 IR8

Ver 01/16/2019

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins

10728

Client Information	Sampler: Joe Mireles / Mitch Clemens	Lab PM: Simmons Debbie	Carrier Tracking No(s):	COC No: 880-2342 191 1
Client Contact: Nick Casten	Phone: 432.558.6337	E-Mail: debbie simmons@eurofinset com	State of Origin:	Page: Page 1 of 1 2/3
Company: GHD Services Inc	PWSID:			Job #:
Address: 2135 South Loop 250 West	Due Date Requested:			
City: Midland	TAT Requested (days):			
State Zip: TX 79703	Compliance Project: Δ Yes Δ No			
Phone: 512-506-8803(Tel)	PO #: new PO			
Email: nick casten@ghd com	WO #: 12564966-02			
Project Name: Scout EP Dollarhide	Project #: 88000225			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd TDS	300_ORGFM_28D Chloride	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	N		
MW-27-W-222801	1-28	1000	G	W	N	N	X	X		
MW-20-W-222801	1-28	1015	G	W	N	N	X	X		
MW-45-F-1-W-222801	1-28	1035	G	W	N	N	X	X		
MW-45-FF-W-222801	1-28	1045	G	W	N	N	X	X		
MW-45-E-2-W-222801	1-28	1100	G	W	N	N	X	X		
MW-45-E-1-W-222801	1-28	1110	G	W	N	N	X	X		
MW-44-I-1-W-222801	1-28	1125	G	W	N	N	X	X		
MW-44-J-1-W-222801	1-28	1135	G	W	N	N	X	X		
MW-44-J-5-W-222801	1-28	1145	G	W	N	N	X	X		
MW-44-J-4-W-222801	1-28	1155	G	W	N	N	X	X		
MW-44-J-3-W-222801	1-28	1205	G	W	N	N	X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Joe Mireles	1-28-22 1615				
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		2/3 10 IR8

Ver 01 16/2019

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone (432) 704 5440

Chain of Custody Record

eurofins

10728

Client Information	Sampler: Joe Mitchell / Mitch Clemens	Lab PM: Simmons Debbie	Carrier Tracking No(s):	COC No: 880-2342-191 1
Client Contact: Nick Casten	Phone:	E Mail: debbie simmons@eurofinset com	State of Origin:	Page: Page ~~1 of 1~~ 3/3
Company: GHD Services Inc	PWSID:			Job #:
Address: 2135 South Loop 250 West	Due Date Requested:			
City: Midland	TAT Requested (days):			
State Zip: TX 79703	Compliance Project: Δ Yes Δ No			
Phone: 512-506-8803(Tel)	PO #: new PO			
Email: nick casten@ghd com	WO #: 12564966-02			
Project Name: Scout EP Dollarhide	Project #: 88000225			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd TDS	300_ORGFM_28D Chloride	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	N		
MW-44-J-2-W-222801	1-28	1215	G	W	NN		X	X		
MW-19-W-222801	1-28	1245	G	W	NN		X	X		
MW-18-W-222801	1-28	1300	G	W	NN		X	X		
MW-12-W-222801	1-28	1310	G	W	NN		X	X		
MW-31-W-222801	1-28	1320	G	W	NN		X	X		
MW-10-W-222801	1-28	1340	G	W	NN		X	X		
MW-26-W-222801	1-28	1400	G	W	NN		X	X		
MW-24-W-222801	1-28	1410	G	W	NN		X	X		
MW-10-WD-222801	1-28	—	G	W	NN		X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Joe Mitchell	1-28-22 1615				
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		2/3 10 IR8

Ver 01 16/2019

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-10728-1
SDG Number: 12564966-02

Login Number: 10728
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Midland

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

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-10786-1
Laboratory Sample Delivery Group: 12564966-02
Client Project/Site: Scout EP Dollarhide
Revision: 1

For:
GHD Services Inc.
2135 South Loop 250 West
Midland, Texas 79703

Attn: Nick G. Casten

Authorized for release by:
3/2/2022 2:43:01 PM

Debbie Simmons, Project Manager
(832)986-6768
debbie.simmons@eurofinset.com

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

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

Client: GHD Services Inc.
Project/Site: Scout EP Dollarhide

Laboratory Job ID: 880-10786-1
SDG: 12564966-02

Table of Contents

Definitions/Glossary

Client: GHD Services Inc. Job ID: 880-10786-1
Project/Site: Scout EP Dollarhide SDG: 12564966-02

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

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

Case Narrative

Client: GHD Services Inc.
Project/Site: Scout EP Dollarhide

Job ID: 880-10786-1
SDG: 12564966-02

Job ID: 880-10786-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-10786-1

Comments
No additional comments.

Revision
The report being provided is a revision of the original report sent on 2/21/2022. The report (revision 1) is being revised due to: per GHD update various sample IDs on job 880-10786 and 880-10728 and revise report and EDD.

Receipt
The samples were received on 2/1/2022 10:14 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.0º C.

General Chemistry
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 880-18640 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: GHD Services Inc. Job ID: 880-10786-1
Project/Site: Scout EP Dollarhide SDG: 12564966-02

Client Sample ID: Livermore-W-223101 Lab Sample ID: 880-10786-1
Date Collected: 01/31/22 13:10 **Matrix: Water**
Date Received: 02/01/22 10:22

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2190		25.0	1.05	mg/L			02/07/22 02:09	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4170		200	200	mg/L			02/05/22 18:16	1

Client Sample ID: MW-23-W-223101 Lab Sample ID: 880-10786-2
Date Collected: 01/31/22 13:30 **Matrix: Water**
Date Received: 02/01/22 10:22

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7510		50.0	2.10	mg/L			02/07/22 02:01	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	12500		500	500	mg/L			02/05/22 18:16	1

Client Sample ID: MW-22-W-223101 Lab Sample ID: 880-10786-3
Date Collected: 01/31/22 13:40 **Matrix: Water**
Date Received: 02/01/22 10:22

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11600		50.0	2.10	mg/L			02/07/22 02:31	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	20700		1000	1000	mg/L			02/05/22 18:16	1

Client Sample ID: MW-17-W-223101 Lab Sample ID: 880-10786-4
Date Collected: 01/31/22 14:05 **Matrix: Water**
Date Received: 02/01/22 10:22

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5920		50.0	2.10	mg/L			02/07/22 02:39	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	13000		500	500	mg/L			02/05/22 18:16	1

Client Sample ID: MW-21-W-223101 Lab Sample ID: 880-10786-5
Date Collected: 01/31/22 14:20 **Matrix: Water**
Date Received: 02/01/22 10:22

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6910		25.0	1.05	mg/L			02/07/22 03:01	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	11700		500	500	mg/L			02/05/22 18:16	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc. Job ID: 880-10786-1
Project/Site: Scout EP Dollarhide SDG: 12564966-02

Client Sample ID: MW-16-W-223101 Lab Sample ID: 880-10786-6

Date Collected: 01/31/22 14:30 **Matrix: Water**
Date Received: 02/01/22 10:22

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	582		5.00	0.210	mg/L			02/07/22 03:09	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1550		100	100	mg/L			02/05/22 18:16	1

Client Sample ID: MW-15-W-223101 Lab Sample ID: 880-10786-7

Date Collected: 01/31/22 14:50 **Matrix: Water**
Date Received: 02/01/22 10:22

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	998		10.0	0.421	mg/L			02/07/22 03:17	20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1890		100	100	mg/L			02/05/22 18:16	1

Client Sample ID: 43-K-1-MW-W-223101 Lab Sample ID: 880-10786-8

Date Collected: 01/31/22 15:30 **Matrix: Water**
Date Received: 02/01/22 10:22

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5400		25.0	1.05	mg/L			02/07/22 03:24	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	9950		500	500	mg/L			02/05/22 18:16	1

Client Sample ID: 45-E-3-MW-W-223101 Lab Sample ID: 880-10786-9

Date Collected: 01/31/22 15:40 **Matrix: Water**
Date Received: 02/01/22 10:22

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4680		25.0	1.05	mg/L			02/07/22 03:32	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	8120		500	500	mg/L			02/05/22 18:16	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Scout EP Dollarhide

Job ID: 880-10786-1
SDG: 12564966-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-18640/3
Matrix: Water
Analysis Batch: 18640

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.0210	U	0.500	0.0210	mg/L			02/07/22 00:00	1

Lab Sample ID: LCS 880-18640/4
Matrix: Water
Analysis Batch: 18640

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	23.49		mg/L		94	90 - 110

Lab Sample ID: LCSD 880-18640/5
Matrix: Water
Analysis Batch: 18640

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	25.0	24.48		mg/L		98	90 - 110	4	20

Lab Sample ID: 880-10786-1 MS
Matrix: Water
Analysis Batch: 18640

Client Sample ID: Livermore-W-223101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2190		1250	3245	N1	mg/L		84	90 - 110

Lab Sample ID: 880-10786-1 MSD
Matrix: Water
Analysis Batch: 18640

Client Sample ID: Livermore-W-223101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2190		1250	3154	N1	mg/L		77	90 - 110	3	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 880-18644/1
Matrix: Water
Analysis Batch: 18644

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<25.0	U	25.0	25.0	mg/L			02/05/22 18:16	1

Lab Sample ID: LCS 880-18644/2
Matrix: Water
Analysis Batch: 18644

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	993.0		mg/L		99	80 - 120

QC Sample Results

Client: GHD Services Inc.
Project/Site: Scout EP Dollarhide

Job ID: 880-10786-1
SDG: 12564966-02

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSD 880-18644/3
Matrix: Water
Analysis Batch: 18644

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1003		mg/L		100	80 - 120	1	10

Lab Sample ID: 880-10786-1 DU
Matrix: Water
Analysis Batch: 18644

Client Sample ID: Livermore-W-223101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	4170			4168		mg/L				0	10

QC Association Summary

Client: GHD Services Inc.
Project/Site: Scout EP Dollarhide

Job ID: 880-10786-1
SDG: 12564966-02

HPLC/IC

Analysis Batch: 18640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10786-1	Livermore-W-223101	Total/NA	Water	300.0	
880-10786-2	MW-23-W-223101	Total/NA	Water	300.0	
880-10786-3	MW-22-W-223101	Total/NA	Water	300.0	
880-10786-4	MW-17-W-223101	Total/NA	Water	300.0	
880-10786-5	MW-21-W-223101	Total/NA	Water	300.0	
880-10786-6	MW-16-W-223101	Total/NA	Water	300.0	
880-10786-7	MW-15-W-223101	Total/NA	Water	300.0	
880-10786-8	43-K-1-MW-W-223101	Total/NA	Water	300.0	
880-10786-9	45-E-3-MW-W-223101	Total/NA	Water	300.0	
MB 880-18640/3	Method Blank	Total/NA	Water	300.0	
LCS 880-18640/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-18640/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-10786-1 MS	Livermore-W-223101	Total/NA	Water	300.0	
880-10786-1 MSD	Livermore-W-223101	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 18644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10786-1	Livermore-W-223101	Total/NA	Water	SM 2540C	
880-10786-2	MW-23-W-223101	Total/NA	Water	SM 2540C	
880-10786-3	MW-22-W-223101	Total/NA	Water	SM 2540C	
880-10786-4	MW-17-W-223101	Total/NA	Water	SM 2540C	
880-10786-5	MW-21-W-223101	Total/NA	Water	SM 2540C	
880-10786-6	MW-16-W-223101	Total/NA	Water	SM 2540C	
880-10786-7	MW-15-W-223101	Total/NA	Water	SM 2540C	
880-10786-8	43-K-1-MW-W-223101	Total/NA	Water	SM 2540C	
880-10786-9	45-E-3-MW-W-223101	Total/NA	Water	SM 2540C	
MB 880-18644/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 880-18644/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 880-18644/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
880-10786-1 DU	Livermore-W-223101	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Scout EP Dollarhide

Job ID: 880-10786-1
SDG: 12564966-02

Client Sample ID: Livermore-W-223101
Lab Sample ID: 880-10786-1
Date Collected: 01/31/22 13:10
Matrix: Water
Date Received: 02/01/22 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			18640	02/07/22 02:09	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	18644	02/05/22 18:16	SC	XEN MID

Client Sample ID: MW-23-W-223101
Lab Sample ID: 880-10786-2
Date Collected: 01/31/22 13:30
Matrix: Water
Date Received: 02/01/22 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		100			18640	02/07/22 02:01	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	18644	02/05/22 18:16	SC	XEN MID

Client Sample ID: MW-22-W-223101
Lab Sample ID: 880-10786-3
Date Collected: 01/31/22 13:40
Matrix: Water
Date Received: 02/01/22 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		100			18640	02/07/22 02:31	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	5 mL	200 mL	18644	02/05/22 18:16	SC	XEN MID

Client Sample ID: MW-17-W-223101
Lab Sample ID: 880-10786-4
Date Collected: 01/31/22 14:05
Matrix: Water
Date Received: 02/01/22 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		100			18640	02/07/22 02:39	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	18644	02/05/22 18:16	SC	XEN MID

Client Sample ID: MW-21-W-223101
Lab Sample ID: 880-10786-5
Date Collected: 01/31/22 14:20
Matrix: Water
Date Received: 02/01/22 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			18640	02/07/22 03:01	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	18644	02/05/22 18:16	SC	XEN MID

Client Sample ID: MW-16-W-223101
Lab Sample ID: 880-10786-6
Date Collected: 01/31/22 14:30
Matrix: Water
Date Received: 02/01/22 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			18640	02/07/22 03:09	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	18644	02/05/22 18:16	SC	XEN MID

Lab Chronicle

Client: GHD Services Inc. Job ID: 880-10786-1
Project/Site: Scout EP Dollarhide SDG: 12564966-02

Client Sample ID: MW-15-W-223101 Lab Sample ID: 880-10786-7

Date Collected: 01/31/22 14:50 **Matrix: Water**
Date Received: 02/01/22 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		20			18640	02/07/22 03:17	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	18644	02/05/22 18:16	SC	XEN MID

Client Sample ID: 43-K-1-MW-W-223101 Lab Sample ID: 880-10786-8

Date Collected: 01/31/22 15:30 **Matrix: Water**
Date Received: 02/01/22 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			18640	02/07/22 03:24	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	18644	02/05/22 18:16	SC	XEN MID

Client Sample ID: 45-E-3-MW-W-223101 Lab Sample ID: 880-10786-9

Date Collected: 01/31/22 15:40 **Matrix: Water**
Date Received: 02/01/22 10:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			18640	02/07/22 03:32	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	18644	02/05/22 18:16	SC	XEN MID

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

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Scout EP Dollarhide

Job ID: 880-10786-1
SDG: 12564966-02

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

Method Summary

Client: GHD Services Inc.
Project/Site: Scout EP Dollarhide

Job ID: 880-10786-1
SDG: 12564966-02

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN MID

Protocol References:

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

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

Client: GHD Services Inc.
Project/Site: Scout EP Dollarhide

Job ID: 880-10786-1
SDG: 12564966-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-10786-1	Livermore-W-223101	Water	01/31/22 13:10	02/01/22 10:22
880-10786-2	MW-23-W-223101	Water	01/31/22 13:30	02/01/22 10:22
880-10786-3	MW-22-W-223101	Water	01/31/22 13:40	02/01/22 10:22
880-10786-4	MW-17-W-223101	Water	01/31/22 14:05	02/01/22 10:22
880-10786-5	MW-21-W-223101	Water	01/31/22 14:20	02/01/22 10:22
880-10786-6	MW-16-W-223101	Water	01/31/22 14:30	02/01/22 10:22
880-10786-7	MW-15-W-223101	Water	01/31/22 14:50	02/01/22 10:22
880-10786-8	43-K-1-MW-W-223101	Water	01/31/22 15:30	02/01/22 10:22
880-10786-9	45-E-3-MW-W-223101	Water	01/31/22 15:40	02/01/22 10:22

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Joe Mireles / Mitchell Clemens	Lab PM: Simmons, Debbie	Carrier Tracking No(s):	COC No: 880-2342-191.1
Client Contact: Nick Casten	Phone: 432-559-6337	E-Mail: debbie.simmons@eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: GHD Services Inc.	PWSID:			Job #:
Address: 2135 South Loop 250 West	Due Date Requested:			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79703	Compliance Project: Δ Yes Δ No			
Phone: 512-506-8803(Tel)	PO #: new PO			
Email: nick.casten@ghd.com	WO #: 12564966-02			
Project Name: Scout EP - Dollarhide	Project #: 88000225			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd - TDS	300_ORGFM_28D - Chloride	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
Livermore-W-223101	1-31	1310	G	W	N	N	X	X		
MW-23-W-223101	1/31	1330	G	W	N	N	X	X		
MW-22-W-223101	1-31	1340	G	W	N	N	X	X		
MW-17-W-223101	1-31	1405	G	W	N	N	X	X		
MW-21-W-223101	1-31	1420	G	W	N	N	X	X		
MW-16-W-223101	1-31	1430	G	W	N	N	X	X		
MW-15-W-223101	1-31	1450	G	W	N	N	X	X		
MW-43-K-1-W-223101	1-31	1530	G	W	N	N	X	X		
MW-45-E-3-W-223101	1-31	1540	G	W	N	N	X	X		

880-10786 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Joe Mireles	2-1-22 / 1014		Patricia R		
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: .1 .2 .10 IR8

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-10786-1
SDG Number: 12564966-02

Login Number: 10786
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-10788-1
Laboratory Sample Delivery Group: 12564966-02
Client Project/Site: Scout EP Dollarhide

For:
GHD Services Inc.
2135 South Loop 250 West
Midland, Texas 79703

Attn: Nick G. Casten

Authorized for release by:
2/23/2022 7:18:24 AM

Debbie Simmons, Project Manager
(832)986-6768
debbie.simmons@eurofinset.com

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

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

Client: GHD Services Inc.
Project/Site: Scout EP Dollarhide

Laboratory Job ID: 880-10788-1
SDG: 12564966-02

Table of Contents

Definitions/Glossary

Client: GHD Services Inc. Job ID: 880-10788-1
Project/Site: Scout EP Dollarhide SDG: 12564966-02

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

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

Case Narrative

Client: GHD Services Inc.
Project/Site: Scout EP Dollarhide

Job ID: 880-10788-1
SDG: 12564966-02

Job ID: 880-10788-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-10788-1

Comments
No additional comments.

Receipt
The samples were received on 2/1/2022 10:14 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.2º C.

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

Client Sample Results

Client: GHD Services Inc. Job ID: 880-10788-1
Project/Site: Scout EP Dollarhide SDG: 12564966-02

Client Sample ID: MW-25-W-223101 Lab Sample ID: 880-10788-1
Date Collected: 01/31/22 10:30 **Matrix: Water**
Date Received: 02/01/22 10:26

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23500		100	4.21	mg/L			02/07/22 03:39	200

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	39500		1000	1000	mg/L			02/05/22 18:16	1

Client Sample ID: MW-11-W-223101 Lab Sample ID: 880-10788-2
Date Collected: 01/31/22 10:50 **Matrix: Water**
Date Received: 02/01/22 10:26

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6240		50.0	2.10	mg/L			02/07/22 03:47	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	12600		500	500	mg/L			02/05/22 18:16	1

Client Sample ID: MW-6-W-223101 Lab Sample ID: 880-10788-3
Date Collected: 01/31/22 11:15 **Matrix: Water**
Date Received: 02/01/22 10:26

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	369		5.00	0.210	mg/L			02/11/22 02:08	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1500		100	100	mg/L			02/05/22 18:16	1

Client Sample ID: MW-5-W-223101 Lab Sample ID: 880-10788-4
Date Collected: 01/31/22 11:30 **Matrix: Water**
Date Received: 02/01/22 10:26

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	232		5.00	0.210	mg/L			02/11/22 02:26	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	932		50.0	50.0	mg/L			02/05/22 18:16	1

Client Sample ID: MW-3-W-223101 Lab Sample ID: 880-10788-5
Date Collected: 01/31/22 11:40 **Matrix: Water**
Date Received: 02/01/22 10:26

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	630		5.00	0.210	mg/L			02/11/22 02:43	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1360		100	100	mg/L			02/05/22 18:16	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Scout EP Dollarhide

Job ID: 880-10788-1
SDG: 12564966-02

Client Sample ID: TRAC-4-W-223101
Lab Sample ID: 880-10788-6
Date Collected: 01/31/22 12:00
Matrix: Water
Date Received: 02/01/22 10:26

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	311		5.00	0.210	mg/L			02/11/22 03:00	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1700		100	100	mg/L			02/05/22 18:16	1

Client Sample ID: MW-4-W-223101
Lab Sample ID: 880-10788-7
Date Collected: 01/31/22 12:10
Matrix: Water
Date Received: 02/01/22 10:26

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	306		5.00	0.210	mg/L			02/11/22 03:18	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	933		50.0	50.0	mg/L			02/05/22 18:16	1

Client Sample ID: MW-14-W-223101
Lab Sample ID: 880-10788-8
Date Collected: 01/31/22 12:30
Matrix: Water
Date Received: 02/01/22 10:26

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1740		25.0	1.05	mg/L			02/11/22 04:45	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3110		200	200	mg/L			02/05/22 18:16	1

Client Sample ID: MW-13-W-223101
Lab Sample ID: 880-10788-9
Date Collected: 01/31/22 12:40
Matrix: Water
Date Received: 02/01/22 10:26

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2070		25.0	1.05	mg/L			02/11/22 05:02	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4190		200	200	mg/L			02/05/22 18:16	1

Client Sample ID: MW-30-W-223101
Lab Sample ID: 880-10788-10
Date Collected: 01/31/22 13:00
Matrix: Water
Date Received: 02/01/22 10:26

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2220		25.0	1.05	mg/L			02/11/22 05:20	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4070		200	200	mg/L			02/05/22 18:16	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Scout EP Dollarhide

Job ID: 880-10788-1
SDG: 12564966-02

Client Sample ID: MW-25-WD-223101

Date Collected: 01/31/22 00:00
Date Received: 02/01/22 10:26

Lab Sample ID: 880-10788-11

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24000		100	4.21	mg/L			02/11/22 05:37	200

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	39300		1000	1000	mg/L			02/05/22 18:16	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Scout EP Dollarhide

Job ID: 880-10788-1
SDG: 12564966-02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-18640/3
Matrix: Water
Analysis Batch: 18640

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.0210	U	0.500	0.0210	mg/L			02/07/22 00:00	1

Lab Sample ID: LCS 880-18640/4
Matrix: Water
Analysis Batch: 18640

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	23.49		mg/L		94	90 - 110

Lab Sample ID: LCSD 880-18640/5
Matrix: Water
Analysis Batch: 18640

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	25.0	24.48		mg/L		98	90 - 110	4	20

Lab Sample ID: MB 880-19039/3
Matrix: Water
Analysis Batch: 19039

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.0210	U	0.500	0.0210	mg/L			02/10/22 21:31	1

Lab Sample ID: LCS 880-19039/4
Matrix: Water
Analysis Batch: 19039

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	24.25		mg/L		97	90 - 110

Lab Sample ID: LCSD 880-19039/5
Matrix: Water
Analysis Batch: 19039

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	25.0	24.21		mg/L		97	90 - 110	0	20

Lab Sample ID: 880-10788-7 MS
Matrix: Water
Analysis Batch: 19039

Client Sample ID: MW-4-W-223101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	306		250	575.8		mg/L		108	90 - 110

Lab Sample ID: 880-10788-7 MSD
Matrix: Water
Analysis Batch: 19039

Client Sample ID: MW-4-W-223101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	306		250	557.7		mg/L		101	90 - 110	3	20

QC Sample Results

Client: GHD Services Inc.
Project/Site: Scout EP Dollarhide

Job ID: 880-10788-1
SDG: 12564966-02

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 880-18644/1
Matrix: Water
Analysis Batch: 18644

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<25.0	U	25.0	25.0	mg/L			02/05/22 18:16	1

Lab Sample ID: LCS 880-18644/2
Matrix: Water
Analysis Batch: 18644

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	993.0		mg/L		99	80 - 120		

Lab Sample ID: LCSD 880-18644/3
Matrix: Water
Analysis Batch: 18644

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1003		mg/L		100	80 - 120	1	10

Lab Sample ID: 880-10788-2 DU
Matrix: Water
Analysis Batch: 18644

Client Sample ID: MW-11-W-223101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	12600			12380		mg/L				1	10

QC Association Summary

Client: GHD Services Inc.
Project/Site: Scout EP Dollarhide

Job ID: 880-10788-1
SDG: 12564966-02

HPLC/IC

Analysis Batch: 18640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10788-1	MW-25-W-223101	Total/NA	Water	300.0	
880-10788-2	MW-11-W-223101	Total/NA	Water	300.0	
MB 880-18640/3	Method Blank	Total/NA	Water	300.0	
LCS 880-18640/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-18640/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 19039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10788-3	MW-6-W-223101	Total/NA	Water	300.0	
880-10788-4	MW-5-W-223101	Total/NA	Water	300.0	
880-10788-5	MW-3-W-223101	Total/NA	Water	300.0	
880-10788-6	TRAC-4-W-223101	Total/NA	Water	300.0	
880-10788-7	MW-4-W-223101	Total/NA	Water	300.0	
880-10788-8	MW-14-W-223101	Total/NA	Water	300.0	
880-10788-9	MW-13-W-223101	Total/NA	Water	300.0	
880-10788-10	MW-30-W-223101	Total/NA	Water	300.0	
880-10788-11	MW-25-WD-223101	Total/NA	Water	300.0	
MB 880-19039/3	Method Blank	Total/NA	Water	300.0	
LCS 880-19039/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-19039/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-10788-7 MS	MW-4-W-223101	Total/NA	Water	300.0	
880-10788-7 MSD	MW-4-W-223101	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 18644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10788-1	MW-25-W-223101	Total/NA	Water	SM 2540C	
880-10788-2	MW-11-W-223101	Total/NA	Water	SM 2540C	
880-10788-3	MW-6-W-223101	Total/NA	Water	SM 2540C	
880-10788-4	MW-5-W-223101	Total/NA	Water	SM 2540C	
880-10788-5	MW-3-W-223101	Total/NA	Water	SM 2540C	
880-10788-6	TRAC-4-W-223101	Total/NA	Water	SM 2540C	
880-10788-7	MW-4-W-223101	Total/NA	Water	SM 2540C	
880-10788-8	MW-14-W-223101	Total/NA	Water	SM 2540C	
880-10788-9	MW-13-W-223101	Total/NA	Water	SM 2540C	
880-10788-10	MW-30-W-223101	Total/NA	Water	SM 2540C	
880-10788-11	MW-25-WD-223101	Total/NA	Water	SM 2540C	
MB 880-18644/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 880-18644/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 880-18644/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
880-10788-2 DU	MW-11-W-223101	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Scout EP Dollarhide

Job ID: 880-10788-1
SDG: 12564966-02

Client Sample ID: MW-25-W-223101
Lab Sample ID: 880-10788-1
Date Collected: 01/31/22 10:30
Matrix: Water
Date Received: 02/01/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		200			18640	02/07/22 03:39	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	5 mL	200 mL	18644	02/05/22 18:16	SC	XEN MID

Client Sample ID: MW-11-W-223101
Lab Sample ID: 880-10788-2
Date Collected: 01/31/22 10:50
Matrix: Water
Date Received: 02/01/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		100			18640	02/07/22 03:47	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	18644	02/05/22 18:16	SC	XEN MID

Client Sample ID: MW-6-W-223101
Lab Sample ID: 880-10788-3
Date Collected: 01/31/22 11:15
Matrix: Water
Date Received: 02/01/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			19039	02/11/22 02:08	SC	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	18644	02/05/22 18:16	SC	XEN MID

Client Sample ID: MW-5-W-223101
Lab Sample ID: 880-10788-4
Date Collected: 01/31/22 11:30
Matrix: Water
Date Received: 02/01/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			19039	02/11/22 02:26	SC	XEN MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	18644	02/05/22 18:16	SC	XEN MID

Client Sample ID: MW-3-W-223101
Lab Sample ID: 880-10788-5
Date Collected: 01/31/22 11:40
Matrix: Water
Date Received: 02/01/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			19039	02/11/22 02:43	SC	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	18644	02/05/22 18:16	SC	XEN MID

Client Sample ID: TRAC-4-W-223101
Lab Sample ID: 880-10788-6
Date Collected: 01/31/22 12:00
Matrix: Water
Date Received: 02/01/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			19039	02/11/22 03:00	SC	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	18644	02/05/22 18:16	SC	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Scout EP Dollarhide

Job ID: 880-10788-1
SDG: 12564966-02

Client Sample ID: MW-4-W-223101
Lab Sample ID: 880-10788-7
Date Collected: 01/31/22 12:10
Matrix: Water
Date Received: 02/01/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			19039	02/11/22 03:18	SC	XEN MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	18644	02/05/22 18:16	SC	XEN MID

Client Sample ID: MW-14-W-223101
Lab Sample ID: 880-10788-8
Date Collected: 01/31/22 12:30
Matrix: Water
Date Received: 02/01/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			19039	02/11/22 04:45	SC	XEN MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	18644	02/05/22 18:16	SC	XEN MID

Client Sample ID: MW-13-W-223101
Lab Sample ID: 880-10788-9
Date Collected: 01/31/22 12:40
Matrix: Water
Date Received: 02/01/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			19039	02/11/22 05:02	SC	XEN MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	18644	02/05/22 18:16	SC	XEN MID

Client Sample ID: MW-30-W-223101
Lab Sample ID: 880-10788-10
Date Collected: 01/31/22 13:00
Matrix: Water
Date Received: 02/01/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		50			19039	02/11/22 05:20	SC	XEN MID
Total/NA	Analysis	SM 2540C		1	25 mL	200 mL	18644	02/05/22 18:16	SC	XEN MID

Client Sample ID: MW-25-WD-223101
Lab Sample ID: 880-10788-11
Date Collected: 01/31/22 00:00
Matrix: Water
Date Received: 02/01/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		200			19039	02/11/22 05:37	SC	XEN MID
Total/NA	Analysis	SM 2540C		1	5 mL	200 mL	18644	02/05/22 18:16	SC	XEN MID

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

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Scout EP Dollarhide

Job ID: 880-10788-1
SDG: 12564966-02

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

Method Summary

Client: GHD Services Inc.
Project/Site: Scout EP Dollarhide

Job ID: 880-10788-1
SDG: 12564966-02

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN MID

Protocol References:

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

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

Client: GHD Services Inc.
Project/Site: Scout EP Dollarhide

Job ID: 880-10788-1
SDG: 12564966-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-10788-1	MW-25-W-223101	Water	01/31/22 10:30	02/01/22 10:26
880-10788-2	MW-11-W-223101	Water	01/31/22 10:50	02/01/22 10:26
880-10788-3	MW-6-W-223101	Water	01/31/22 11:15	02/01/22 10:26
880-10788-4	MW-5-W-223101	Water	01/31/22 11:30	02/01/22 10:26
880-10788-5	MW-3-W-223101	Water	01/31/22 11:40	02/01/22 10:26
880-10788-6	TRAC-4-W-223101	Water	01/31/22 12:00	02/01/22 10:26
880-10788-7	MW-4-W-223101	Water	01/31/22 12:10	02/01/22 10:26
880-10788-8	MW-14-W-223101	Water	01/31/22 12:30	02/01/22 10:26
880-10788-9	MW-13-W-223101	Water	01/31/22 12:40	02/01/22 10:26
880-10788-10	MW-30-W-223101	Water	01/31/22 13:00	02/01/22 10:26
880-10788-11	MW-25-WD-223101	Water	01/31/22 00:00	02/01/22 10:26

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Joe Mireles / Mitchell Clemens	Lab PM: Simmons, Debbie	Carrier Tracking No(s):	COC No: 880-2342-191.1
Client Contact: Nick Casten	Phone: 432-559-6337	E-Mail: debbie.simmons@eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: GHD Services Inc.	PWSID:	Analysis Requested		Job #
Address: 2135 South Loop 250 West	Due Date Requested:			Preservation Codes:
City: Midland	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: TX, 79703	Compliance Project: Δ Yes Δ No			
Phone: 512-506-8803(Tel)	PO #: new PO			Other:
Email: nick.casten@ghd.com	WO #: 12564966-02			
Project Name: Scout EP - Dollarhide	Project #: 88000225			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd - TDS	300_ORGFM_28D - Chloride	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
MW-25-W-223101	1-31	1030	G	W	N	N	X	X		
MW-11-W-223101	1-31	1050	G	W	N	N	X	X		
MW-6-W-223101	1-31	1115	G	W	N	N	X	X		
MW-5-W-223101	1-31	1130	G	W	N	N	X	X		
MW-3-W-223101	1-31	1140	G	W	N	N	X	X		
TRAC-4-W-223101	1-31	1200	G	W	N	N	X	X		
MW-4-W-223101	1-31	1210	G	W	N	N	X	X		
MW-14-W-223101	1-31	1230	G	W	N	N	X	X		
MW-13-W-223101	1-31	1240	G	W	N	N	X	X		
MW-30-W-223107	1-31	1300	G	W	N	N	X	X		
MW-25-WD-223101	1-31	—	G	W	N	N	X	X		

880-10788 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Joe Mireles	2-1-22 / 1016				
2						
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: .1 / .2 .10 IR8

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-10788-1
SDG Number: 12564966-02

Login Number: 10788
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Midland

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

Appendix C

June 2022 Groundwater Sample Analytical Laboratory Reports

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ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-16448-1
Laboratory Sample Delivery Group: 12586708-03
Client Project/Site: Dollarhide

For:
GHD Services Inc.
2135 South Loop 250 West
Midland, Texas 79703

Attn: Nick G. Casten

Authorized for release by:
7/13/2022 7:35:35 PM

Debbie Simmons, Project Manager
(832)986-6768
Debbie.Simmons@et.eurofinsus.com

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

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

Client: GHD Services Inc.
Project/Site: Dollarhide

Laboratory Job ID: 880-16448-1
SDG: 12586708-03

Table of Contents

Definitions/Glossary

Client: GHD Services Inc. Job ID: 880-16448-1
Project/Site: Dollarhide SDG: 12586708-03

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

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

Case Narrative

Client: GHD Services Inc. Job ID: 880-16448-1
Project/Site: Dollarhide SDG: 12586708-03

Job ID: 880-16448-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-16448-1

Receipt
The sample was received on 6/29/2022 2:30 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C

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

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

Client Sample Results

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-16448-1
SDG: 12586708-03

Client Sample ID: MW-34-W-222906

Date Collected: 06/29/22 10:40
Date Received: 06/29/22 14:30

Lab Sample ID: 880-16448-1

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.9		2.50	0.105	mg/L			07/06/22 01:17	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	625		50.0	50.0	mg/L			06/30/22 18:44	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-16448-1
SDG: 12586708-03

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-29086/3
Matrix: Water
Analysis Batch: 29086

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.0210	U	0.500	0.0210	mg/L			07/06/22 00:49	1

Lab Sample ID: LCS 880-29086/4
Matrix: Water
Analysis Batch: 29086

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			25.0	23.78		mg/L		95	90 - 110		

Lab Sample ID: LCSD 880-29086/5
Matrix: Water
Analysis Batch: 29086

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			25.0	24.03		mg/L		96	90 - 110	1	20

Lab Sample ID: 880-16448-1 MS
Matrix: Water
Analysis Batch: 29086

Client Sample ID: MW-34-W-222906
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	70.9		125	197.5		mg/L		101	90 - 110		

Lab Sample ID: 880-16448-1 MSD
Matrix: Water
Analysis Batch: 29086

Client Sample ID: MW-34-W-222906
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	70.9		125	198.7		mg/L		102	90 - 110	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 880-28796/1
Matrix: Water
Analysis Batch: 28796

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<25.0	U	25.0	25.0	mg/L			06/30/22 18:44	1

Lab Sample ID: LCS 880-28796/2
Matrix: Water
Analysis Batch: 28796

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1010		mg/L		101	80 - 120		

QC Sample Results

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-16448-1
SDG: 12586708-03

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSD 880-28796/3
Matrix: Water
Analysis Batch: 28796

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1010		mg/L		101	80 - 120	0	10

Lab Sample ID: 880-16448-1 DU
Matrix: Water
Analysis Batch: 28796

Client Sample ID: MW-34-W-222906
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	625			632.0		mg/L				1	10

QC Association Summary

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-16448-1
SDG: 12586708-03

HPLC/IC

Analysis Batch: 29086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16448-1	MW-34-W-222906	Total/NA	Water	300.0	
MB 880-29086/3	Method Blank	Total/NA	Water	300.0	
LCS 880-29086/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-29086/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-16448-1 MS	MW-34-W-222906	Total/NA	Water	300.0	
880-16448-1 MSD	MW-34-W-222906	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 28796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16448-1	MW-34-W-222906	Total/NA	Water	SM 2540C	
MB 880-28796/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 880-28796/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 880-28796/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
880-16448-1 DU	MW-34-W-222906	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-16448-1
SDG: 12586708-03

Client Sample ID: MW-34-W-222906
Date Collected: 06/29/22 10:40
Date Received: 06/29/22 14:30

Lab Sample ID: 880-16448-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			29086	07/06/22 01:17	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	28796	06/30/22 18:44	SMC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-16448-1
SDG: 12586708-03

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
N/A	N/A	None on record.	

Method Summary

Client: GHD Services Inc. Job ID: 880-16448-1
Project/Site: Dollarhide SDG: 12586708-03

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN MID

Protocol References:

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

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-16448-1
SDG: 12586708-03

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-16448-1	MW-34-W-222906	Water	06/29/22 10:40	06/29/22 14:30

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone 432-704-5440

Chain of Custody Record

eurofins Environment Testing America

16448

Client Information	Sampler: David Fletcher / Joe Mireles	Lab PM: Simmons Debbie	Carrier Tracking No(s):	COC No: 880-2417 191 3
Client Contact: Nick Casten	Phone:	E-Mail: Debbie Simmons@et.eurofinsus com	State of Origin:	Page: Page 1 of 1
Company: GHD Services Inc	PWSID:			Job #:
Address: 2135 South Loop 250 West	Due Date Requested:			
City: Midland	TAT Requested (days): Per SSOW			
State Zip: TX, 79703	Compliance Project: Δ Yes Δ No			
Phone: 225-296-6513(Tel)	PO #: 340-003326			
Email: nick casten@ghd com	WO #: ~~12564066-02~~ 12586708-03			
Project Name: Scout EP - Dollarhide	Project #: 88000225			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd - TDS	300_ORGFM_28D - Chloride	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	N		
MW-34-W-222906	6-29	1040	G	W	N	N	X	X		Please place this COC on it's own report

880-16448 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Joe Mireles	6-29-22 / 1425	GHD		6-29-22 1430	
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 3-3 | 3.1 -2 IR

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-16448-1
SDG Number: 12586708-03

Login Number: 16448
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-16449-1
Laboratory Sample Delivery Group: 12586708-3
Client Project/Site: Dollarhide

For:
GHD Services Inc.
2135 South Loop 250 West
Midland, Texas 79703

Attn: Nick G. Casten

Authorized for release by:
7/13/2022 7:36:52 PM

Debbie Simmons, Project Manager
(832)986-6768
Debbie.Simmons@et.eurofinsus.com

Client: GHD Services Inc.
Project/Site: Dollarhide

Laboratory Job ID: 880-16449-1
SDG: 12586708-3

Table of Contents

Definitions/Glossary

Client: GHD Services Inc. Job ID: 880-16449-1
Project/Site: Dollarhide SDG: 12586708-3

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

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

Case Narrative

Client: GHD Services Inc. Job ID: 880-16449-1
Project/Site: Dollarhide SDG: 12586708-3

Job ID: 880-16449-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-16449-1

Receipt
The samples were received on 6/29/2022 1:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C

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

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

Client Sample Results

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-16449-1
SDG: 12586708-3

Client Sample ID: NM-MW-15-W-222806

Lab Sample ID: 880-16449-1
Matrix: Water
Date Collected: 06/28/22 12:05
Date Received: 06/29/22 13:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.9		2.50	0.105	mg/L			07/06/22 01:44	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	509		50.0	50.0	mg/L			06/30/22 18:44	1

Client Sample ID: NM-MW-17-W-222806

Lab Sample ID: 880-16449-2
Matrix: Water
Date Collected: 06/28/22 13:30
Date Received: 06/29/22 13:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	211		5.00	0.210	mg/L			07/06/22 01:54	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1010		50.0	50.0	mg/L			06/30/22 18:44	1

Client Sample ID: NM-MW-20-W-222806

Lab Sample ID: 880-16449-3
Matrix: Water
Date Collected: 06/28/22 14:00
Date Received: 06/29/22 13:40

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.3		2.50	0.105	mg/L			07/06/22 02:03	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	395		50.0	50.0	mg/L			06/30/22 18:44	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-16449-1
SDG: 12586708-3

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-29086/3
Matrix: Water
Analysis Batch: 29086

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.0210	U	0.500	0.0210	mg/L			07/06/22 00:49	1

Lab Sample ID: LCS 880-29086/4
Matrix: Water
Analysis Batch: 29086

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	23.78		mg/L		95	90 - 110

Lab Sample ID: LCSD 880-29086/5
Matrix: Water
Analysis Batch: 29086

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	25.0	24.03		mg/L		96	90 - 110	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 880-28796/1
Matrix: Water
Analysis Batch: 28796

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<25.0	U	25.0	25.0	mg/L			06/30/22 18:44	1

Lab Sample ID: LCS 880-28796/2
Matrix: Water
Analysis Batch: 28796

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1010		mg/L		101	80 - 120

Lab Sample ID: LCSD 880-28796/3
Matrix: Water
Analysis Batch: 28796

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1010		mg/L		101	80 - 120	0	10

QC Association Summary

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-16449-1
SDG: 12586708-3

HPLC/IC

Analysis Batch: 29086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16449-1	NM-MW-15-W-222806	Total/NA	Water	300.0	
880-16449-2	NM-MW-17-W-222806	Total/NA	Water	300.0	
880-16449-3	NM-MW-20-W-222806	Total/NA	Water	300.0	
MB 880-29086/3	Method Blank	Total/NA	Water	300.0	
LCS 880-29086/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-29086/5	Lab Control Sample Dup	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 28796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16449-1	NM-MW-15-W-222806	Total/NA	Water	SM 2540C	
880-16449-2	NM-MW-17-W-222806	Total/NA	Water	SM 2540C	
880-16449-3	NM-MW-20-W-222806	Total/NA	Water	SM 2540C	
MB 880-28796/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 880-28796/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 880-28796/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: GHD Services Inc. Job ID: 880-16449-1
Project/Site: Dollarhide SDG: 12586708-3

Client Sample ID: NM-MW-15-W-222806 Lab Sample ID: 880-16449-1

Date Collected: 06/28/22 12:05 **Matrix: Water**
Date Received: 06/29/22 13:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			29086	07/06/22 01:44	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	28796	06/30/22 18:44	SMC	XEN MID

Client Sample ID: NM-MW-17-W-222806 Lab Sample ID: 880-16449-2

Date Collected: 06/28/22 13:30 **Matrix: Water**
Date Received: 06/29/22 13:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			29086	07/06/22 01:54	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	28796	06/30/22 18:44	SMC	XEN MID

Client Sample ID: NM-MW-20-W-222806 Lab Sample ID: 880-16449-3

Date Collected: 06/28/22 14:00 **Matrix: Water**
Date Received: 06/29/22 13:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			29086	07/06/22 02:03	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	28796	06/30/22 18:44	SMC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-16449-1
SDG: 12586708-3

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
N/A	N/A	None on record.	

Method Summary

Client: GHD Services Inc. Job ID: 880-16449-1
Project/Site: Dollarhide SDG: 12586708-3

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN MID

Protocol References:

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

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-16449-1
SDG: 12586708-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-16449-1	NM-MW-15-W-222806	Water	06/28/22 12:05	06/29/22 13:40
880-16449-2	NM-MW-17-W-222806	Water	06/28/22 13:30	06/29/22 13:40
880-16449-3	NM-MW-20-W-222806	Water	06/28/22 14:00	06/29/22 13:40

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone 432 704-5440

Chain of Custody Record

eurofins Environment Testing America

16449

Client Information	Sampler: Joe Mireles, David Fletcher	Lab PM: Simmons Debbie	Carrier Tracking No(s):	COC No: 880-2417-191 2
Client Contact: Nick Casten	Phone:	E-Mail: Debbie.Simmons@et.eurofinsus.com	State of Origin:	Page: Page 2 of 13
Company: GHD Services Inc	PWSID:			Job #:
Address: 2135 South Loop 250 West	Due Date Requested:			
City: Midland	TAT Requested (days): Per SSOW			
State, Zip: TX, 79703	Compliance Project: Δ Yes Δ No			
Phone: 225-296-6513(Tel)	PO #: 340-003326			
Email: nick.casten@ghd.com	WO #: ~~42564066-02~~ 1258708-3			
Project Name: Scout EP - Dollarhide	Project #: 88000225			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd - TDS	300_ORGFM_28D Chloride	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	N		
NM-MW-15-W-222806	6-28	1205	G	W	X	X	X	X		Please place this COC on its own report
NM-MW-17-W-222806	6-28	1330	G	W	X	X	X	X		
NM-MW-20-W-222806	6-28	1400	G	W	X	X	X	X		

880-16449 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Joe Mireles	6-29-22 / 1425	GHD		6 29 22 14:30	
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 3.3 | 3.1 -.2 IR

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-16449-1
SDG Number: 12586708-3

Login Number: 16449
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-16450-1
Laboratory Sample Delivery Group: 12586708-03
Client Project/Site: Dollarhide

For:
GHD Services Inc.
2135 South Loop 250 West
Midland, Texas 79703

Attn: Nick G. Casten

Authorized for release by:
7/13/2022 7:38:34 PM

Debbie Simmons, Project Manager
(832)986-6768
Debbie.Simmons@et.eurofinsus.com

Client: GHD Services Inc.
Project/Site: Dollarhide

Laboratory Job ID: 880-16450-1
SDG: 12586708-03

Table of Contents

Definitions/Glossary

Client: GHD Services Inc. Job ID: 880-16450-1
Project/Site: Dollarhide SDG: 12586708-03

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

Glossary

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

Case Narrative

Client: GHD Services Inc. Job ID: 880-16450-1
Project/Site: Dollarhide SDG: 12586708-03

Job ID: 880-16450-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-16450-1

Receipt
The samples were received on 6/29/2022 2:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C

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

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

Client Sample Results

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-16450-1
SDG: 12586708-03

Client Sample ID: NM-MW-6-W-222806

Lab Sample ID: 880-16450-1
Matrix: Water
Date Collected: 06/28/22 10:40
Date Received: 06/29/22 14:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	159		2.50	0.105	mg/L			07/06/22 02:12	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	843		50.0	50.0	mg/L			06/30/22 18:44	1

Client Sample ID: NM-MW-5-W-222806

Lab Sample ID: 880-16450-2
Matrix: Water
Date Collected: 06/28/22 11:05
Date Received: 06/29/22 14:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	143		5.00	0.210	mg/L			07/06/22 02:40	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1320		100	100	mg/L			06/30/22 18:44	1

Client Sample ID: NM-MW-1-W-222806

Lab Sample ID: 880-16450-3
Matrix: Water
Date Collected: 06/28/22 11:40
Date Received: 06/29/22 14:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	259		5.00	0.210	mg/L			07/06/22 02:49	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1480		100	100	mg/L			06/30/22 18:44	1

Client Sample ID: NM-MW-10-W-222806

Lab Sample ID: 880-16450-4
Matrix: Water
Date Collected: 06/28/22 12:45
Date Received: 06/29/22 14:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	326		5.00	0.210	mg/L			07/06/22 02:58	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1630		100	100	mg/L			06/30/22 18:44	1

Client Sample ID: NM-MW-9-W-222906

Lab Sample ID: 880-16450-5
Matrix: Water
Date Collected: 06/29/22 09:40
Date Received: 06/29/22 14:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	249		2.50	0.105	mg/L			07/06/22 03:07	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	834		50.0	50.0	mg/L			06/30/22 18:44	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc. Job ID: 880-16450-1
Project/Site: Dollarhide SDG: 12586708-03

Client Sample ID: MW-29-W-222906 Lab Sample ID: 880-16450-6

Date Collected: 06/29/22 10:10 **Matrix: Water**
Date Received: 06/29/22 14:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	619		5.00	0.210	mg/L			07/06/22 03:17	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1400		100	100	mg/L			06/30/22 18:44	1

Client Sample ID: MW-31-W-222906 Lab Sample ID: 880-16450-7

Date Collected: 06/29/22 11:15 **Matrix: Water**
Date Received: 06/29/22 14:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12300		50.0	2.10	mg/L			07/06/22 03:26	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	18800		500	500	mg/L			06/30/22 18:44	1

Client Sample ID: MW-25-W-222906 Lab Sample ID: 880-16450-8

Date Collected: 06/29/22 11:40 **Matrix: Water**
Date Received: 06/29/22 14:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23900		100	4.21	mg/L			07/06/22 13:26	200

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	38500		1000	1000	mg/L			06/30/22 18:44	1

Client Sample ID: MW-18-W-222906 Lab Sample ID: 880-16450-9

Date Collected: 06/29/22 12:00 **Matrix: Water**
Date Received: 06/29/22 14:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9910		100	4.21	mg/L			07/06/22 04:03	200

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	36100		1000	1000	mg/L			06/30/22 18:44	1

Client Sample ID: NM-MW-9-WD-222906 Lab Sample ID: 880-16450-10

Date Collected: 06/29/22 00:00 **Matrix: Water**
Date Received: 06/29/22 14:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	242		2.50	0.105	mg/L			07/06/22 04:30	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	832		50.0	50.0	mg/L			06/30/22 18:44	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-16450-1
SDG: 12586708-03

Client Sample ID: MW-19-W-222906

Date Collected: 06/29/22 12:30
Date Received: 06/29/22 14:30

Lab Sample ID: 880-16450-11

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11300		50.0	2.10	mg/L			07/06/22 04:40	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	15800		500	500	mg/L			06/30/22 18:44	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-16450-1
SDG: 12586708-03

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-29086/3
Matrix: Water
Analysis Batch: 29086

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.0210	U	0.500	0.0210	mg/L			07/06/22 00:49	1

Lab Sample ID: LCS 880-29086/4
Matrix: Water
Analysis Batch: 29086

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			25.0	23.78		mg/L		95	90 - 110		

Lab Sample ID: LCSD 880-29086/5
Matrix: Water
Analysis Batch: 29086

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			25.0	24.03		mg/L		96	90 - 110	1	20

Lab Sample ID: 880-16450-7 MS
Matrix: Water
Analysis Batch: 29086

Client Sample ID: MW-31-W-222906
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	12300		2500	14960	4	mg/L		106	90 - 110		

Lab Sample ID: 880-16450-7 MSD
Matrix: Water
Analysis Batch: 29086

Client Sample ID: MW-31-W-222906
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	12300		2500	14930	4	mg/L		105	90 - 110	0	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 880-28796/1
Matrix: Water
Analysis Batch: 28796

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<25.0	U	25.0	25.0	mg/L			06/30/22 18:44	1

Lab Sample ID: LCS 880-28796/2
Matrix: Water
Analysis Batch: 28796

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1010		mg/L		101	80 - 120		

QC Sample Results

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-16450-1
SDG: 12586708-03

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSD 880-28796/3
Matrix: Water
Analysis Batch: 28796

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1010		mg/L		101	80 - 120	0	10

Lab Sample ID: 880-16450-7 DU
Matrix: Water
Analysis Batch: 28796

Client Sample ID: MW-31-W-222906
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	18800			18810		mg/L				0.2	10

QC Association Summary

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-16450-1
SDG: 12586708-03

HPLC/IC

Analysis Batch: 29086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16450-1	NM-MW-6-W-222806	Total/NA	Water	300.0	
880-16450-2	NM-MW-5-W-222806	Total/NA	Water	300.0	
880-16450-3	NM-MW-1-W-222806	Total/NA	Water	300.0	
880-16450-4	NM-MW-10-W-222806	Total/NA	Water	300.0	
880-16450-5	NM-MW-9-W-222906	Total/NA	Water	300.0	
880-16450-6	MW-29-W-222906	Total/NA	Water	300.0	
880-16450-7	MW-31-W-222906	Total/NA	Water	300.0	
880-16450-8	MW-25-W-222906	Total/NA	Water	300.0	
880-16450-9	MW-18-W-222906	Total/NA	Water	300.0	
880-16450-10	NM-MW-9-WD-222906	Total/NA	Water	300.0	
880-16450-11	MW-19-W-222906	Total/NA	Water	300.0	
MB 880-29086/3	Method Blank	Total/NA	Water	300.0	
LCS 880-29086/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-29086/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-16450-7 MS	MW-31-W-222906	Total/NA	Water	300.0	
880-16450-7 MSD	MW-31-W-222906	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 28796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16450-1	NM-MW-6-W-222806	Total/NA	Water	SM 2540C	
880-16450-2	NM-MW-5-W-222806	Total/NA	Water	SM 2540C	
880-16450-3	NM-MW-1-W-222806	Total/NA	Water	SM 2540C	
880-16450-4	NM-MW-10-W-222806	Total/NA	Water	SM 2540C	
880-16450-5	NM-MW-9-W-222906	Total/NA	Water	SM 2540C	
880-16450-6	MW-29-W-222906	Total/NA	Water	SM 2540C	
880-16450-7	MW-31-W-222906	Total/NA	Water	SM 2540C	
880-16450-8	MW-25-W-222906	Total/NA	Water	SM 2540C	
880-16450-9	MW-18-W-222906	Total/NA	Water	SM 2540C	
880-16450-10	NM-MW-9-WD-222906	Total/NA	Water	SM 2540C	
880-16450-11	MW-19-W-222906	Total/NA	Water	SM 2540C	
MB 880-28796/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 880-28796/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 880-28796/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
880-16450-7 DU	MW-31-W-222906	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-16450-1
SDG: 12586708-03

Client Sample ID: NM-MW-6-W-222806
Lab Sample ID: 880-16450-1
Date Collected: 06/28/22 10:40
Matrix: Water
Date Received: 06/29/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			29086	07/06/22 02:12	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	28796	06/30/22 18:44	SMC	XEN MID

Client Sample ID: NM-MW-5-W-222806
Lab Sample ID: 880-16450-2
Date Collected: 06/28/22 11:05
Matrix: Water
Date Received: 06/29/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			29086	07/06/22 02:40	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	28796	06/30/22 18:44	SMC	XEN MID

Client Sample ID: NM-MW-1-W-222806
Lab Sample ID: 880-16450-3
Date Collected: 06/28/22 11:40
Matrix: Water
Date Received: 06/29/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			29086	07/06/22 02:49	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	28796	06/30/22 18:44	SMC	XEN MID

Client Sample ID: NM-MW-10-W-222806
Lab Sample ID: 880-16450-4
Date Collected: 06/28/22 12:45
Matrix: Water
Date Received: 06/29/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			29086	07/06/22 02:58	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	28796	06/30/22 18:44	SMC	XEN MID

Client Sample ID: NM-MW-9-W-222906
Lab Sample ID: 880-16450-5
Date Collected: 06/29/22 09:40
Matrix: Water
Date Received: 06/29/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			29086	07/06/22 03:07	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	28796	06/30/22 18:44	SMC	XEN MID

Client Sample ID: MW-29-W-222906
Lab Sample ID: 880-16450-6
Date Collected: 06/29/22 10:10
Matrix: Water
Date Received: 06/29/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10			29086	07/06/22 03:17	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	28796	06/30/22 18:44	SMC	XEN MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-16450-1
SDG: 12586708-03

Client Sample ID: MW-31-W-222906

Lab Sample ID: 880-16450-7
Matrix: Water
Date Collected: 06/29/22 11:15
Date Received: 06/29/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		100			29086	07/06/22 03:26	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	28796	06/30/22 18:44	SMC	XEN MID

Client Sample ID: MW-25-W-222906

Lab Sample ID: 880-16450-8
Matrix: Water
Date Collected: 06/29/22 11:40
Date Received: 06/29/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		200			29086	07/06/22 13:26	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	5 mL	200 mL	28796	06/30/22 18:44	SMC	XEN MID

Client Sample ID: MW-18-W-222906

Lab Sample ID: 880-16450-9
Matrix: Water
Date Collected: 06/29/22 12:00
Date Received: 06/29/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		200			29086	07/06/22 04:03	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	5 mL	200 mL	28796	06/30/22 18:44	SMC	XEN MID

Client Sample ID: NM-MW-9-WD-222906

Lab Sample ID: 880-16450-10
Matrix: Water
Date Collected: 06/29/22 00:00
Date Received: 06/29/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			29086	07/06/22 04:30	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	28796	06/30/22 18:44	SMC	XEN MID

Client Sample ID: MW-19-W-222906

Lab Sample ID: 880-16450-11
Matrix: Water
Date Collected: 06/29/22 12:30
Date Received: 06/29/22 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		100			29086	07/06/22 04:40	CH	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	28796	06/30/22 18:44	SMC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-16450-1
SDG: 12586708-03

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
N/A	N/A	None on record.	

Method Summary

Client: GHD Services Inc. Job ID: 880-16450-1
Project/Site: Dollarhide SDG: 12586708-03

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN MID

Protocol References:

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

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

Client: GHD Services Inc.
Project/Site: Dollarhide

Job ID: 880-16450-1
SDG: 12586708-03

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-16450-1	NM-MW-6-W-222806	Water	06/28/22 10:40	06/29/22 14:30
880-16450-2	NM-MW-5-W-222806	Water	06/28/22 11:05	06/29/22 14:30
880-16450-3	NM-MW-1-W-222806	Water	06/28/22 11:40	06/29/22 14:30
880-16450-4	NM-MW-10-W-222806	Water	06/28/22 12:45	06/29/22 14:30
880-16450-5	NM-MW-9-W-222906	Water	06/29/22 09:40	06/29/22 14:30
880-16450-6	MW-29-W-222906	Water	06/29/22 10:10	06/29/22 14:30
880-16450-7	MW-31-W-222906	Water	06/29/22 11:15	06/29/22 14:30
880-16450-8	MW-25-W-222906	Water	06/29/22 11:40	06/29/22 14:30
880-16450-9	MW-18-W-222906	Water	06/29/22 12:00	06/29/22 14:30
880-16450-10	NM-MW-9-WD-222906	Water	06/29/22 00:00	06/29/22 14:30
880-16450-11	MW-19-W-222906	Water	06/29/22 12:30	06/29/22 14:30

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone 432-704-5440

Chain of Custody Record

eurofins Environment Testing America

16450

Client Information	Sampler: David Fletcher Joe Mireley	Lab PM: Simmons Debbie	Carrier Tracking No(s):	COC No: 880-2417-191 1
Client Contact: Nick Casten	Phone:	E-Mail: Debbie Simmons@et eurofinsus com	State of Origin:	Page: Page 1 of 16
Company: GHD Services Inc	PWSID:	Analysis Requested		Job #:
Address: 2135 South Loop 250 West	Due Date Requested:			Preservation Codes: A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA; M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify); Other:
City: Midland	TAT Requested (days): Per SSOW			
State Zip: TX 79703	Compliance Project: Δ Yes Δ No			
Phone: 225-296-6513(Tel)	PO #: 340-003326			
Email: nick casten@ghd com	WO #: ~~12564966-02~~ 12586708-03			
Project Name: Scout EP - Dollarhide	Project #: 88000225			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd - TDS	300_ORGFM_28D - Chloride	Total Number of containers	Special Instructions/Note
			Preservation Code:				N	N		
NM-MW-6-W-222806	6-28	1040	G	W			X	X		
NM-MW-5-W-222806	6-28	1115								
NM-MW-1-W-222806	6-28	1140								
NM-MW-10-W-222806	6-28	1245								
NM-MW-9-W-222906	6-29	0940								
MW-29-W-222906	6-29	1010								
MW-31-W-222906	6-29	1115								
MW-25-W-222906	6-29	1140								
MW-18-W-222906	6-29	1200								
NM-MW-9-WD-222906	6-29	—								
MW-19-W-222906	6-29	1230	G	W						

880-16450 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Joe Mireley	6-29-22 / 1425			6.29 22 14.30	
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 3.3/3.1 -.2 IR8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-16450-1
SDG Number: 12586708-03

Login Number: 16450
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

Appendix D

Historical Groundwater Analytical Data

Appendix D

Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
Monitor Wells			
43-K-1-MW			
	2/28/2007	**6,200**	**11,400**
	7/26/2007	**7,250**	**13,500**
	1/22/2008	**7,360**	**12,500**
	7/7/2008	**7,460**	**14,300**
	1/28/2009	**8,210**	**14,500**
	8/26/2009	**9,140**	**16,700**
	2/19/2010	**7,560**	**15,000**
	8/18/2010	**10,600**	**17,900**
	2/15/2011	**11,900**	**15,400**
	8/4/2011	**11,600**	**19,800**
	2/3/2012	**9,560**	**19,900**
	7/17/2015	**8,870**	**16,700**
	1/29/2016	NS	NS
	7/20/2016	**8,470**	**13,800**
	1/11/2017	**8,360**	**15,400**
	4/10/2017	NS	NS
	7/14/2017	**8,550**	**14,000**
	1/12/2018	**8,020**	**10,500**
	7/5/2018	**7,840**	**12,700**
	1/7/2019	**7,130**	**9,640**
	7/17/2019	**7,050**	**11,000**
	1/23/2020	**6,570**	**11,300**
	7/13/2020	**7,440**	**10,700**
	1/12/2021	**5,620**	**10,200**
	7/27/2021	**5,530**	**9,980**
44-I-1-MW			
	01/06	**1,909**	**3,728**
	04/06	**1,349**	**2,823**
	6/13/2006	**1,300**	**2,930**
	9/13/2006	**1,340**	**2,620**
	12/8/2006	**1,370**	**3,010**
	2/28/2007	**1,310**	**2,840**
	7/30/2007	**1,440**	**3,010**
	1/22/2008	**1,630**	**2,730**
	7/7/2008	**1,480**	**2,910**
	1/29/2009	**1,510**	**2,870**
	8/27/2009	**1,500**	**2,850**
	2/18/2010	**1,140**	**2,800**
	8/19/2010	**1,610**	**2,840**
	2/15/2011	**1,970**	**2,850**
	8/4/2011	**1,770**	**3,060**
	2/2/2012	**1,550**	**3,470**
	1/29/2013	**1,850**	**3,300**
	7/30/2013	**1,640**	**3,550**
	1/15/2014	**1,860**	**3,730**
	7/16/2014	**2,100**	**5,180**
	1/14/2015	**2,000**	**4,690**
	1/28/2016	**2,430**	**3,500**
	7/20/2016	**2,620**	**6,220**
	1/12/2017	**3,290**	**6,250**
	4/10/2017	NS	NS
	7/14/2017	**2,750**	**6,700**
	1/12/2018	**2,940**	**5,030**
	7/5/2018	**3,170**	**5,450**
	1/9/2019	**3,320**	**4,580**
	7/17/2019	**3,400**	**5,510**
	1/21/2020	**3,540**	**6,040**
	7/13/2020	**3,660**	**5,840**
	1/12/2021	**3,540**	**6,240**
	7/27/2021	**3,920**	**9,550**
44-J-1-MW			
	01/06	**1,382**	**2,835**
	03/06	**1,551**	**3,139**
	6/13/2006	**1,550**	**3,570**
	9/13/2006	**1,910**	**3,270**
	12/8/2006	**1,810**	**3,090**
	2/28/2007	**1,600**	**3,530**
	7/30/2007	**1,830**	**3,480**
	1/22/2008	**2,090**	**3,390**
	7/7/2008	**1,960**	**3,780**

Appendix D

Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
	1/29/2009	**1,870**	**4,070**
	8/28/2009	**2,480**	**4,050**
	2/19/2010	**1,850**	**4,480**
	8/19/2010	**2,600**	**4,440**
	2/15/2011	**2,630**	**4,960**
	8/4/2011	**2,890**	**5,740**
	2/2/2012	**2,740**	**5,900**
	1/28/2016	NS	NS
	7/20/2016	**2,440**	**5,980**
	1/12/2017	NS	NS
	4/10/2017	NS	NS
	7/14/2017	**3,650**	**8,630**
	1/12/2018	**3,410**	**6,190**
	7/5/2018	**4,300**	**6,910**
	1/9/2019	**4,850**	**6,190**
	7/17/2019	**5,140**	**7,020**
	1/21/2020	**5,020**	**8,150**
	7/13/2020	**4,770**	**7,880**
	1/12/2021	**3,730**	**6,700**
	7/27/2021	**4,900**	**8,790**
44-J-2-MW			
	01/06	**1,380**	**2,870**
	03/06	**1,911**	**3,745**
	6/13/2006	**1,760**	**3,910**
	9/13/2006	**2,230**	**3,790**
	12/8/2006	**2,270**	**3,660**
	2/28/2007	**1,820**	**3,770**
	7/30/2007	**2,090**	**4,050**
	1/22/2008	**2,040**	**3,800**
	7/7/2008	**2,130**	**4,290**
	1/29/2009	**2,260**	**4,800**
	8/28/2009	**2,820**	**5,030**
	2/18/2010	**2,280**	**5,840**
	8/20/2010	**2,930**	**5,900**
	2/15/2011	**3,000**	**5,780**
	8/5/2011	**3,090**	**13,200**
	2/2/2012	**3,200**	**7,600**
	1/28/2016	NS	NS
	7/20/2016	**3,990**	**8,680**
	1/12/2017	NS	NS
	4/10/2017	NS	NS
	7/14/2017	**4,160**	**10,000**
	1/12/2018	**4,560**	**7,820**
	7/5/2018	**5,050**	**8,000**
	1/9/2019	**4,930**	**7,020**
	7/17/2019	**5,170**	**7,870**
	1/21/2020	**3,830**	**6,420**
	7/13/2020	**5,120**	**8,210**
	1/12/2021	**4,890**	**8,640**
	7/27/2021	**5,090**	**8,840**
44-J-3-MW			
	9/13/2006	**2,580**	**4,850**
	12/8/2006	**2,690**	**4,790**
	8/28/2009	**3,330**	**5,820**
	2/18/2010	**2,580**	**4,980**
	8/20/2010	**3,430**	**5,940**
	2/15/2011	**3,660**	**6,340**
	8/2/2011	**3,090**	**5,970**
	2/2/2012	**2,810**	**5,640**
	1/28/2016	NS	NS
	7/20/2016	**3,630**	**7,810**
	1/12/2017	NS	NS
	4/10/2017	NS	NS
	7/20/2017	**3,960**	**9,150**
	1/12/2018	**4,800**	**8,420**
	7/5/2018	**5,290**	**9,230**
	1/9/2019	**4,300**	**6,330**
	7/17/2019	**5,340**	**8,680**
	1/21/2020	**4,720**	**7,720**
	7/13/2020	**4,920**	**8,080**
	1/12/2021	**4,870**	**8,630**
	7/27/2021	**5,420**	**9,470**

Appendix D

Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
44-J-4-MW			
	9/13/2006	**1,820**	**3,620**
	12/8/2006	**2,220**	**3,880**
	8/27/2009	**2,090**	**3,810**
	2/18/2010	**1,730**	**4,160**
	8/20/2010	**2,300**	**4,500**
	2/15/2011	**2,400**	**4,500**
	8/2/2011	**2,510**	**4,300**
	2/3/2012	**2,160**	**5,150**
	1/28/2016	NS	NS
	7/20/2016	**3,080**	**6,110**
	1/12/2017	NS	NS
	4/10/2017	NS	NS
	7/20/2017	**2,750**	**6,260**
	1/12/2018	**3,660**	**7,250**
	7/5/2018	**4,520**	**7,430**
	1/9/2019	**4,470**	**6,130**
	7/17/2019	**4,240**	**6,850**
	1/21/2020	**6,120**	**10,500**
	7/13/2020	**4,450**	**8,020**
	1/12/2021	**3,930**	**7,070**
	7/27/2021	**4,470**	**7,910**
44-J-5-MW			
	9/13/2006	**1,740**	**3,360**
	12/8/2006	**1,570**	**3,260**
	8/27/2009	**1,650**	**3,870**
	2/19/2010	**1,660**	**3,940**
	8/20/2010	**2,150**	**4,260**
	2/15/2011	**2,530**	**4,030**
	8/4/2011	**2,430**	**4,320**
	2/2/2012	**2,260**	**4,920**
	1/28/2016	NS	NS
	7/20/2016	**2,710**	**5,470**
	1/12/2017	NS	NS
	4/10/2017	NS	NS
	7/20/2017	**2,930**	**6,780**
	1/12/2018	**3,500**	**6,230**
	7/5/2018	**4,060**	**6,600**
	1/9/2019	**3,970**	**5,690**
	7/17/2019	**4,200**	**6,810**
	1/21/2020	**4,210**	**6,780**
	7/13/2020	**4,190**	**6,690**
	1/12/2021	**4,140**	**7,520**
	7/27/2021	**4,440**	**8,610**
45-E-1-MW			
	01/06	**994**	**1,795**
	03/06	**1,686**	**2,951**
	6/14/2006	**2,580**	**5,290**
	9/12/2006	**1,990**	**4,110**
	12/7/2006	**3,740**	**7,960**
	2/28/2007	**3,650**	**8,130**
	7/30/2007	**3,770**	**9,480**
	1/22/2008	**3,850**	**6,250**
	7/7/2008	**3,770**	**7,140**
	1/28/2009	**3,810**	**8,230**
	8/27/2009	**3,710**	**6,780**
	2/18/2010	**3,150**	**6,720**
	8/17/2010	**4,090**	**6,520**
	2/15/2011	**4,150**	**6,800**
	8/2/2011	**1,960**	**8,390**
	2/2/2012	**3,520**	**9,160**
	1/28/2016	NS	NS
	7/20/2016	**2,690**	**6,540**
	1/12/2017	**2,860**	**3,340**
	4/10/2017	NS	NS
	7/20/2017	**2,580**	**5,020**
	1/12/2018	**2,300**	**4,650**
	7/5/2018	**2,530**	**4,220**
	1/9/2019	**2,680**	**3,650**
	7/17/2019	**3,360**	**4,820**
	1/21/2020	**1,050**	**1,970**
	7/13/2020	**3,100**	**5,540**

Appendix D

Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
	1/12/2021	**2,490**	**4,680**
	7/27/2021	**3,500**	**9,750**
45-E-2-MW			
	01/06	98	601
	03/06	76	600
	6/14/2006	85	576
	9/12/2006	81	529
	12/7/2006	82	560
	2/28/2007	**1,170**	**2,210**
	7/30/2007	**1,260**	**2,290**
	1/22/2008	**1,240**	**2,100**
	7/7/2008	**1,310**	**2,300**
	1/28/2009	**1,280**	**2,540**
	8/26/2009	**322**	880
	2/18/2010	**460**	**1,160**
	8/18/2010	144	612
	2/15/2011	124	629
	8/2/2011	**1,450**	**3,290**
	2/2/2012	**738**	**1,620**
	1/28/2016	NS	NS
	7/20/2016	170	676
	1/12/2017	**2,370**	**4,320**
	4/10/2017	NS	NS
	7/20/2017	**1,720**	**3,780**
	1/12/2018	**718**	**3,050**
	7/5/2018	**1,790**	**3,130**
	1/9/2019	**1,660**	**3,040**
	7/17/2019	**1,830**	**2,880**
	1/21/2020	**1,660**	**3,060**
	7/13/2020	**1,750**	**3,150**
	1/12/2021	**1,670**	**3,080**
DUP	1/12/2021	**1,660**	**3,130**
	7/27/2021	**1,710**	**3,070**
45-E-3-MW			
	2/28/2007	**3,360**	**6,800**
	7/26/2007	**3,780**	**9,560**
	1/22/2008	**3,660**	**6,030**
	7/7/2008	**3,590**	**7,750**
	1/28/2009	**3,820**	**8,410**
	8/26/2009	**3,520**	**6,870**
	2/18/2010	**3,270**	**7,990**
	8/18/2010	**4,060**	**6,590**
	2/15/2011	**4,320**	**6,820**
	8/2/2011	**1,960**	**8,490**
	2/3/2012	**3,920**	**8,480**
	1/28/2016	NS	NS
	7/20/2016	**2,870**	**6,790**
	1/11/2017	**2,920**	**6,030**
	4/10/2017	NS	NS
	7/20/2017	**2,870**	**5,620**
	1/12/2018	**2,990**	**4,940**
	7/5/2018	**3,360**	**5,750**
	1/9/2019	**3,760**	**5,240**
	7/17/2019	**4,010**	**6,440**
	1/23/2020	**4,260**	**6,880**
	7/13/2020	**5,690**	**8,480**
	1/12/2021	**4,260**	**7,790**
	7/27/2021	**2,540**	**8,230**
45-F-1-MW			
	01/06	**619**	**1,270**
	03/06	**714**	**1,394**
	6/13/2006	**1,500**	**3,620**
	9/12/2006	**983**	**1,650**
	12/8/2006	**1,300**	**2,840**
	2/28/2007	**1,430**	**3,160**
	7/30/2007	**1,550**	**2,610**
	1/22/2008	**1,530**	**2,400**
	7/7/2008	**1,380**	**2,610**
	1/29/2009	**1,420**	**2,450**
	8/27/2009	**1,380**	**2,140**
	2/18/2010	**655**	**1,980**
	8/18/2010	**1,160**	**1,960**

Appendix D

Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
	2/15/2011	**1,020**	**1,690**
	8/2/2011	**1,270**	**2,650**
	2/3/2012	**1,090**	**2,500**
	1/28/2016	NS	NS
	7/20/2016	**632**	**1,760**
	1/12/2017	**1,010**	**1,900**
	4/10/2017	NS	NS
	7/20/2017	**751**	**1,700**
	1/12/2018	**896**	**1,990**
	7/5/2018	**923**	**1,840**
	1/9/2019	**901**	**1,840**
	7/17/2019	**1,060**	**1,770**
	1/21/2020	**712**	**1,270**
	7/13/2020	**1,130**	**1,960**
	1/12/2021	**991**	**1,770**
	7/27/2021	**1,140**	**1,970**
45-FF-MW			
	01/06	**613**	**1,277**
	03/06	**3,090**	**5,086**
	6/13/2006	**3,870**	**11,500**
	9/12/2006	**4,610**	**7,280**
	12/7/2006	**4,910**	**10,600**
	2/28/2007	**5,060**	**8,960**
	2/28/2007	**4,890**	**11,100**
	7/30/2007	**5,020**	**8,780**
	1/22/2008	**5,160**	**9,100**
	7/7/2008	**5,220**	**9,870**
	1/28/2009	**4,900**	**8,540**
	8/27/2009	**5,760**	**9,120**
	2/18/2010	**3,210**	**7,340**
	8/18/2010	**5,830**	**9,360**
	2/15/2011	**6,000**	**10,200**
	8/4/2011	**5,510**	**12,100**
	2/2/2012	**4,360**	**9,680**
	1/28/2016	NS	NS
	7/20/2016	**3,990**	**9,940**
	1/12/2017	**4,800**	**11,200**
	4/10/2017	NS	NS
	7/20/2017	**4,170**	**8,030**
	1/12/2018	**4,820**	**8,280**
	7/5/2018	**5,310**	**9,090**
	1/9/2019	**5,080**	**6,690**
	7/17/2019	**6,060**	**7,320**
	1/21/2020	**4,320**	**7,510**
	7/13/2020	**4,120**	**6,850**
	1/12/2021	**3,770**	**6,450**
	7/27/2021	**3,750**	**9,810**
58-B-1-MW			
	01/06	**836**	**1,624**
	3/6/2020	**1,874**	**3,138**
	6/14/2006	**976**	**2,310**
	9/12/2006	**3,440**	**5,290**
	12/7/2006	**3,230**	**7,600**
	2/28/2007	**3,350**	**7,370**
	7/26/2007	**4,680**	**8,890**
	1/22/2008	**3,220**	**5,110**
	7/7/2008	**2,980**	**6,110**
	1/28/2009	**3,150**	**6,330**
	8/26/2009	**3,320**	**5,820**
	2/18/2010	**2,850**	**6,710**
	8/19/2010	**4,120**	**9,970**
	2/15/2011	**4,180**	**6,850**
	8/2/2011	**5,240**	**11,700**
	2/6/2012	**5,510**	**10,000**
	1/28/2016	NS	NS
	7/22/2016	**3,550**	**8,460**
	1/13/2017	**7,510**	**9,410**
	4/10/2017	NS	NS
	7/20/2017	**5,480**	**9,230**
	1/12/2018	**5,250**	**8,620**
	7/5/2018	**6,440**	**10,000**
	1/7/2019	**5,240**	**8,120**

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Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
	7/15/2019	**6,180**	**9,750**
	1/21/2020	**6,590**	**10,200**
	7/14/2020	**7,160**	**11,400**
	1/12/2021	**6,230**	**10,500**
	7/27/2021	**6,730**	**10,900**
58-B-2-MW			
	01/06	**1,103**	**2,024**
	03/06	**650**	**1,329**
	6/14/2006	**4,510**	**8,700**
	9/12/2006	**8,220**	**19,000**
	12/7/2006	**4,700**	**10,700**
	2/28/2007	**5,900**	**10,800**
	7/26/2007	**6,270**	**12,200**
	1/22/2008	**6,200**	**11,300**
	7/7/2008	**5,830**	**11,600**
	1/28/2009	**5,260**	**10,600**
	8/26/2009	**6,260**	**10,800**
	2/18/2010	**4,870**	**9,680**
	8/19/2010	**6,640**	**10,200**
	2/15/2011	**4,100**	**7,390**
	8/2/2011	**1,410**	**13,600**
	2/6/2012	**5,480**	**13,600**
	1/28/2016	**3,550**	**7,440**
	7/22/2016	**2,740**	**6,130**
	1/13/2017	**4,190**	**8,700**
	4/10/2017	NS	NS
	7/20/2017	**3,340**	**5,910**
	1/12/2018	**3,470**	**5,860**
	7/5/2018	**3,900**	**6,410**
	1/7/2019	**4,190**	**5,470**
	7/15/2019	**3,850**	**6,310**
	1/21/2020	**3,770**	**6,280**
	7/14/2020	**4,040**	**7,190**
	1/12/2021	**3,560**	**1,240**
	7/27/2021	**2,300**	**6,480**
58-B-3-MW			
	2/28/2007	**607**	**2,150**
	7/26/2007	**1,200**	**2,340**
	1/22/2008	**1,250**	**2,010**
	7/7/2008	**1,140**	**2,480**
	1/28/2009	**1,300**	**2,400**
	8/26/2009	**1,370**	**2,320**
	2/19/2010	**1,070**	**2,570**
	8/19/2010	**1,450**	**2,340**
	2/15/2011	**1,680**	**2,500**
	8/2/2011	**1,450**	**2,920**
	2/3/2012	**1,330**	**2,660**
	1/29/2013	**1,360**	**2,370**
	7/30/2013	**1,230**	**2,540**
	1/15/2014	**1,250**	**2,920**
	7/16/2014	**1,450**	**4,360**
	1/14/2015	**312**	**938**
	7/15/2015	**715**	**1,770**
	1/28/2016	**688**	**1,660**
	7/22/2016	**570**	**1,290**
	1/10/2017	**683**	**1,830**
	4/10/2017	NS	NS
	7/20/2017	**666**	**1,440**
	1/12/2018	**791**	**1,290**
	7/6/2018	**976**	**1,580**
	1/7/2019	**900**	**2,070**
	7/12/2019	**1,470**	**2,520**
	1/23/2020	**1,570**	**2,710**
	7/14/2020	**1,640**	**3,160**
	1/8/2021	**1,630**	**2,800**
	7/26/2021	**1,730**	**2,890**
MW-2			
	8/10/2015	204	**1,950**
	1/28/2016	NS	NS
	7/21/2016	NS	NS
	1/12/2017	NS	NS
	4/10/2017	NS	NS

Appendix D

Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
	7/19/2017	NS	NS
	10/5/2017	NS	NS
	1/12/2018	NS	NS
	4/5/2018	NS	NS
	7/6/2018	NS	NS
	10/4/2018	NS	NS
	1/8/2019	NS	NS
	4/10/2019	NS	NS
	7/16/2019	NS	NS
	10/17/2019	NS	NS
	1/22/2020	NS	NS
	4/13/2020	NS	NS
	7/15/2020	NS	NS
	7/13/2020	NS	NS
	1/11/2021	NS	NS
	7/26/2021	NS	NS
MW-3			
	8/10/2015	249	**1,100**
	1/27/2016	**484**	**1,070**
	7/21/2016	**486**	**1,430**
	1/11/2017	**564**	**1,410**
	4/10/2017	**605**	**1,960**
	7/19/2017	**572**	**1,400**
	10/5/2017	**569**	**1,520**
	1/12/2018	**566**	**1,410**
	4/5/2018	**589**	**1,300**
	7/3/2018	**593**	**1,310**
	10/4/2018	**626**	**1,310**
	1/8/2019	194	619
	4/9/2019	**636**	**1,370**
	7/16/2019	**475**	**1,320**
	10/17/2019	**502**	**1,350**
	1/22/2020	**696**	**2,390**
	4/13/2020	**603**	**1,400**
	7/15/2020	**648**	**1,550**
	10/12/2020	**671**	**1,380**
	1/11/2021	**605**	**1,470**
	4/7/2021	NS	NS
	7/28/2021	**654**	**1,390**
MW-4			
	8/10/2015	240	**1,850**
	1/27/2016	250	941
	7/21/2016	**355**	**2,260**
	1/11/2017	**353**	**1,260**
	4/10/2017	NS	NS
	7/20/2017	**325**	1,000
	10/5/2017	**347**	**1,010**
	1/12/2018	**345**	968
	4/6/2018	**350**	413
	7/3/2018	**338**	831
	10/4/2018	**350**	883
	1/8/2019	258	426
	4/9/2019	**377**	877
	7/16/2019	269	889
	10/17/2019	**325**	902
	1/22/2020	**375**	578
	4/13/2020	**323**	939
	7/15/2020	**352**	**1,050**
	10/12/2020	**343**	903
	1/11/2021	**327**	911
	4/7/2021	NS	NS
	7/28/2021	**326**	951
MW-5			
	8/10/2015	**837**	**2,960**
	1/28/2016	**459**	**2,130**
	7/21/2016	**397**	**1,690**
	1/11/2017	**364**	**1,400**
	4/10/2017	**346**	**1,560**
	7/19/2017	**309**	**1,170**
	10/5/2017	**302**	**1,040**
	1/12/2018	293	**1,130**
	4/5/2018	289	**1,140**

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Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
	7/3/2018	274	**1,020**
	10/4/2018	278	**1,050**
	1/8/2019	244	**1,050**
	4/9/2019	300	257
	7/16/2019	219	**1,120**
	10/17/2019	257	1,000
	1/22/2020	262	964
	4/13/2020	265	986
	7/15/2020	267	**1,090**
	10/12/2020	267	974
	1/11/2021	252	975
	4/7/2021	NS	NS
	7/28/2021	251	996
MW-6			
	8/10/2015	**578**	**2,180**
	1/28/2016	**484**	**2,090**
	7/21/2016	**450**	**1,590**
	1/11/2017	**441**	**1,330**
	4/10/2017	**468**	**1,760**
	7/18/2017	**439**	**1,650**
	10/5/2017	**407**	**1,530**
	1/12/2018	**408**	**1,490**
	4/5/2018	**411**	**1,430**
	7/3/2018	**402**	**1,340**
	10/4/2018	**404**	**1,450**
	1/8/2019	**372**	**1,510**
	4/9/2019	**418**	**1,500**
	7/15/2019	**395**	**1,470**
	10/17/2019	**383**	**1,490**
	1/23/2020	**488**	**1,550**
	4/14/2020	**387**	**1,530**
	7/15/2020	**417**	**1,590**
	10/12/220	**423**	**1,440**
	1/11/2021	**380**	**1,580**
	4/7/2021	NS	NS
	7/27/2021	**412**	**1,470**
MW-7			
	8/10/2015	**772**	**3,230**
	1/28/2016	260	**2,620**
	7/21/2016	**524/508**	**2,510/2,410**
	1/12/2017	NS	NS
	4/10/2017	NS	NS
	7/19/2017	NS	NS
	10/5/2017	NS	NS
	1/12/2018	NS	NS
	4/5/2018	NS	NS
	7/3/2018	NS	NS
	10/4/2018	NS	NS
	1/8/2019	NS	NS
	4/10/2019	NS	NS
	7/15/2019	NS	NS
	10/17/2019	NS	NS
	1/23/2020	NS	NS
	4/14/2020	NS	NS
	7/15/2020	NS	NS
	10/12/2020	NS	NS
	1/12/2021	NS	NS
	4/7/2021	NS	NS
	7/27/2021	NS	NS
MW-8			
	8/10/2015	**711**	**2,430**
	1/28/2016	**763**	**2,310**
	7/21/2016	**758**	**2,140**
	1/13/2017	**985**	**2,410**
	4/7/2017	**933**	**2,120**
	7/17/2017	**845**	**2,280**
	10/4/2017	**803**	**2,210**
	1/12/2018	**813**	**2,250**
	4/5/2018	**839**	**2,300**
	7/5/2018	**868**	**2,350**
	10/3/2018	**888**	**2,490**
	1/8/2019	**852**	**2,160**

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Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
	4/5/2019	**1,060**	**2,460**
	7/15/2019	**884**	**2,390**
	10/16/2019	**919**	**2,400**
	1/21/2020	**967**	**2,540**
	4/14/2020	**750**	**2,370**
	7/14/2020	**1,010**	**2,460**
	10/12/2020	**1,040**	**2,480**
	1/12/2021	**994**	**2,420**
	4/7/2021	NS	NS
	7/27/2021	**1,080**	**2,500**
MW-9			
	8/10/2015	**1,650**	**3,390**
	1/28/2016	**2,160**	**4,410**
	7/21/2016	**2,140**	**6,790**
	1/13/2017	**3,520**	**4,540**
	4/7/2017	**3,070**	**6,760**
	7/17/2017	**2,830**	**4,930**
	10/4/2017	**2,230**	**4,730**
	1/12/2018	**2,540**	**4,380**
	4/5/2018	**2,930**	**4,690**
	7/5/2018	**2,880**	**4,250**
	10/3/2018	**2,910**	**4,270**
	1/7/2019	**2,620**	807
	4/5/2019	**1,200**	**4,230**
	7/15/2019	**2,620**	**4,240**
	10/16/2019	**2,520**	**4,610**
	1/21/2020	**2,740**	**4,010**
	4/14/2020	**1,800**	**4,100**
	7/14/2020	**2,700**	**5,070**
	10/12/2020	**2,710**	**4,270**
	1/12/2021	**2,670**	**4,760**
	4/7/2021	NS	NS
	7/27/2021	**2,740**	**4,510**
MW-10			
	8/10/2015	**3,480**	**7,980**
	1/28/2016	**5,320**	**9,850**
	7/20/2016	**5,920**	**12,400**
	1/12/2017	**6,360**	**10,500**
	4/7/2017	**5,930**	**12,700**
	7/18/2017	**5,320**	**9,720**
	10/5/2017	**5,190**	**8,560**
	1/12/2018	**5,350**	**9,650**
	4/5/2018	**5,470**	**8,630**
	7/3/2018	**5,340**	**11,000**
	10/3/2018	**5,880**	**8,570**
	1/8/2019	**5,130**	**7,050**
	4/5/2019	**5,760**	**8,100**
	7/15/2019	**4,860**	**8,210**
	10/16/2019	**4,980**	**8,520**
	1/23/2020	**5,230**	**8,580**
	4/14/2020	**3,260**	**8,730**
	7/15/2020	**5,130**	**9,450**
	10/12/2020	**5,270**	**8,250**
	1/11/2021	**3,880**	**8,180**
	4/7/2021	NS	NS
	7/27/2021	**4,980**	**8,180**
MW-11			
	8/10/2015	**458**	**3,260**
	1/28/2016	**5,280**	**5,720**
	7/21/2016	**6,830**	**16,100**
	1/11/2017	**7,310**	**18,800**
	4/10/2017	**7,760**	**17,100**
	7/18/2017	**7,620**	**12,700**
	10/5/2017	**7,110**	**12,600**
	1/12/2018	**8,120**	**12,700**
	4/5/2018	**7,990**	**11,000**
	7/3/2018	**7,940**	**11,800**
	10/4/2018	**8,310**	**12,000**
	1/8/2019	**8,240**	**9,730**
	4/9/2019	**7,840**	**11,700**
	7/15/2019	**7,680**	**11,800**
	10/17/2019	**7,590**	**12,400**

Appendix D

Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
	1/23/2020	**7,760**	**12,300**
	4/14/2020	**7,620**	**13,400**
	7/15/2020	**6,240**	**12,000**
	10/12/2020	68	**11,800**
	1/11/2021	**7,290**	**11,900**
	4/7/2021	NS	NS
	7/27/2021	**7,540**	**13,100**
MW-12			
	8/10/2015	**7,680**	**20,500**
	1/28/2016	**12,800**	**24,400**
	7/20/2016	**12,000**	**27,500**
	1/11/2017	**16,400**	**24,100**
	4/7/2017	**13,900**	**28,900**
	7/18/2017	**13,600**	**23,000**
	10/5/2017	**14,000**	**23,000**
	1/12/2018	**13,100**	**21,400**
	4/5/2018	**13,300**	**19,400**
	7/3/2018	**13,200**	**20,200**
	10/4/2018	**15,000**	**24,400**
	1/8/2019	**13,900**	**14,000**
	4/10/2019	**14,100**	**21,700**
	7/15/2019	**11,000**	**22,600**
	10/16/2019	**12,600**	**23,400**
	1/23/2020	**12,700**	**20,600**
	4/14/2020	**13,600**	**23,400**
	7/15/2020	**12,700**	**22,700**
	10/12/2020	**13,600**	**24,700**
	1/11/2021	**13,300**	**22,300**
	4/7/2021	NS	NS
	7/27/2021	**13,600**	**23,600**
MW-13			
	8/10/2015	**1,740**	**4,100**
	1/28/2016	**1,850**	**4,110**
	7/21/2016	**1,650**	**5,300**
	1/11/2017	**1,270**	**1,660**
	4/10/2017	**1,890**	**4,760**
	7/19/2017	**1,730**	**4,010**
	10/5/2017	**1,910**	**5,260**
	1/12/2018	**1,750**	**3,920**
	4/6/2018	**1,750**	**3,920**
	7/3/2018	**2,280**	**4,560**
	10/4/2018	**2,200**	**3,900**
	1/8/2019	**1,880**	**3,810**
	4/10/2019	**2,020**	**4,160**
	7/16/2019	**1,400**	**4,440**
	10/17/2019	**1,960**	**3,720**
	1/22/2020	**1,810**	**5,110**
	4/13/2020	**1,580**	**4,420**
	7/15/2020	**1,750**	**4,350**
	10/12/2020	**1,820**	**4,140**
	1/11/2021	**1,270**	**4,180**
DUP	1/11/2021	**1,600**	**4,260**
	4/7/2021	NS	NS
	7/28/2021	**2,030**	**4,280**
MW-14			
	8/11/2015	**989**	**3,040**
	1/27/2016	**1,420**	**2,560**
	7/21/2016	**1,480**	**3,800**
	1/11/2017	**1,470**	**2,890**
	4/10/2017	**1,530**	**4,400**
	7/19/2017	**1,500**	**3,330**
	10/5/2017	**1,510**	**3,460**
	1/12/2018	**1,590**	**2,910**
	4/6/2018	**1,720**	**1,270**
	7/3/2018	**1,540**	**2,660**
	10/4/2018	**1,690**	**2,620**
	1/8/2019	**1,630**	**2,890**
	4/9/2019	**1,610**	**2,940**
	7/16/2019	**1,110**	**3,120**
	10/17/2019	**1,670**	**2,940**
	1/22/2020	**1,880**	**3,290**
	4/13/2020	**1,130**	**3,130**

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Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
	7/15/2020	**1,760**	**3,640**
	10/12/2020	**1,810**	**3,270**
	1/11/2021	**1,260**	**3,210**
	4/7/2021	NS	NS
	7/28/2021	**1,780**	**3,180**
MW-15			
	8/11/2015	**600**	**1,730**
	1/28/2016	**617**	**1,180**
	7/21/2016	**554**	**1,370**
	1/11/2017	**710**	**1,640**
	4/10/2017	**785**	**2,030**
	7/19/2017	**652**	**1,220**
	10/5/2017	**831**	**1,690**
	1/12/2018	**873**	**1,770**
	4/6/2018	**877**	**1,900**
	7/3/2018	**914**	**1,650**
	10/4/2018	**1,030**	**1,740**
	1/8/2019	**995**	**2,290**
	4/10/2019	**1,110**	**1,740**
	7/16/2019	**1,300**	**1,800**
	10/17/2019	**1,010**	**1,850**
	1/22/2020	**1,290**	**2,180**
	4/13/2020	**1,010**	**1,960**
	7/15/2020	**1,110**	**2,330**
	10/12/2020	**1,110**	**2,010**
	1/11/2021	**902**	**1,880**
	4/7/2021	NS	NS
	7/28/2021	**1,150**	**1,870**
MW-16			
	8/11/2015	**435**	**1,410**
	1/28/2016	**323**	**1,020**
	7/21/2016	195	776
	1/11/2017	**472**	**1,180**
	4/10/2017	**396**	**1,400**
	7/19/2017	**444**	**1,100**
	10/5/2017	**426**	**1,210**
	1/12/2018	**364**	**1,100**
	4/6/2018	**432**	**1,310**
	7/3/2018	**430**	**1,160**
	10/4/2018	**474**	**1,210**
	1/8/2019	**468**	**1,260**
	4/10/2019	**508**	**1,240**
	7/16/2019	**301**	**1,060**
	10/17/2019	**393**	**1,110**
	1/22/2020	**525**	**1,270**
	4/13/2020	**310**	**1,030**
	7/15/2020	**505**	**1,390**
	10/12/2020	**411**	**1,060**
	1/11/2021	**403**	**1,050**
	4/7/2021	NS	NS
	7/28/2021	**534**	**1,270**
DUP	7/28/2021	**564**	**1,270**
MW-17			
	8/12/2015	**5,800**	**13,400**
	1/28/2016	**4,400**	823
	7/21/2016	**3,370**	**7,900**
	1/11/2017	**9,760**	**16,200**
	4/10/2017	**9,620**	**20,400**
	7/19/2017	**8,160**	**14,400**
	10/6/2017	**11,400**	**18,800**
	1/12/2018	**10,100**	**15,300**
	4/6/2018	**9,590**	**14,800**
	7/3/2018	**8,570**	**15,000**
	10/4/2018	**11,300**	**17,700**
	1/8/2019	**10,100**	**11,100**
	4/10/2019	**9,440**	**14,500**
	7/16/2019	**7,880**	**13,100**
	10/17/2019	**9,620**	**15,300**
	1/22/2020	**9,410**	**15,100**
	4/13/2020	**7,870**	**13,800**
	7/15/2020	**7,450**	**15,000**
	10/12/2020	**8,280**	**13,500**

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Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
	1/11/2021	**7,680**	**4,200**
	4/7/2021	NS	NS
	7/28/2021	**8,050**	**13,900**
MW-18			
	8/12/2015	**13,400**	**26,600**
	1/28/2016	**13,900**	**25,300**
	7/20/2016	**8,000**	**18,900**
	1/12/2017	**14,200**	**33,700**
	4/7/2017	**19,100**	**37,800**
	7/18/2017	**13,900**	**23,500**
	10/6/2017	**19,000**	**52,900**
	1/12/2018	**18,800**	**30,300**
	4/5/2018	**20,000**	**30,400**
	7/3/2018	**22,000**	**38,500**
	10/4/2018	**21,100**	**31,600**
	1/8/2019	**17,000**	**19,000**
	4/9/2019	**24,600**	**33,300**
	7/15/2019	**21,000**	**33,100**
	10/16/2019	**19,900**	**37,300**
	1/23/2020	**21,400**	**34,800**
	4/14/2020	**18,500**	**34,000**
	7/15/2020	**21,400**	**36,000**
	10/12/2020	**21,600**	**34,100**
	1/11/2021	**21,000**	**35,800**
	4/7/2021	NS	NS
	7/27/2021	**25,100**	**34,300**
DUP	7/27/2021	**22,600**	**34,400**
MW-19			
	8/12/2015	**4,780**	**11,300**
	1/28/2016	**5,130**	**10,100**
	7/20/2016	**5,160**	**10,200**
	1/12/2017	**6,370**	**9,560**
	4/7/2017	**6,000**	**13,600**
	7/18/2017	**5,310**	**9,840**
	10/6/2017	**5,290**	**9,620**
	1/12/2018	**6,160**	**10,300**
	4/5/2018	**6,600**	**9,880**
	7/5/2018	**6,580**	**11,500**
	10/4/2018	**6,980**	**11,600**
	1/8/2019	**6,570**	**9,300**
	4/9/2019	**7,000**	**10,500**
	7/15/2019	**6,860**	**11,000**
	10/16/2019	**7,160**	**12,800**
	1/23/2020	**7,540**	**13,200**
	4/14/2020	**7,170**	**13,300**
	7/15/2020	**7,880**	**13,700**
	10/12/2020	**7,990**	**16,800**
	1/11/2021	**7,350**	**12,500**
	4/7/2021	NS	NS
	7/27/2021	**8,030**	**14,300**
MW-20			
	8/12/2015	**995**	**2,760**
	1/28/2016	**1,200**	**2,390**
	7/20/2016	**1,060**	**2,920**
	1/12/2017	**1,500**	**1,970**
	4/7/2017	**1,200**	**3,300**
	7/18/2017	**1,110**	**2,540**
	10/6/2017	**1,100**	**2,220**
	1/12/2018	**1,130**	**2,410**
	4/5/2018	**1,100**	**2,130**
	7/5/2018	**1,150**	**2,160**
	10/3/2018	**1,340**	**2,490**
	1/8/2019	**1,070**	**2,180**
	4/5/2019	**1,430**	**2,410**
	7/15/2019	**1,270**	**2,330**
	10/16/2019	**1,260**	**2,500**
	1/21/2020	**1,330**	**2,440**
	4/14/2020	**1,140**	**2,970**
	7/13/2020	**1,320**	**2,450**
	10/12/2020	**1,350**	**2,470**
	1/11/2021	**1,130**	**2,460**
	4/7/2021	NS	NS

Appendix D

Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
	7/27/2021	**1,310**	**3,250**
MW-21			
	7/21/2016	**7,920**	**19,400**
	1/11/2017	**7,360**	**11,800**
	4/10/2017	**6,600**	**17,900**
	7/19/2017	**5,480**	**12,200**
	10/6/2017	**7,210**	**13,500**
	1/12/2018	**6,800**	**10,900**
	4/6/2018	**7,630**	**11,000**
	7/3/2018	**6,860**	**11,100**
	10/4/2018	**7,400**	**11,400**
	1/8/2019	**7,530**	**9,420**
	4/10/2019	**6,970**	**11,000**
	7/16/2019	**6,720**	**11,000**
	10/17/2019	**7,010**	**11,000**
	1/22/2020	**6,900**	**10,300**
	4/13/2020	**6,610**	**10,200**
	7/15/2020	**5,850**	**10,700**
	10/12/2020	**6,840**	**10,900**
	1/11/2021	**3,050**	**10,100**
	4/7/2021	NS	NS
	7/28/2021	**6,550**	**11,200**
MW-22			
	3/3/2017	**12,100**	**19,000**
	4/10/2017	**14,000**	**33,000**
	7/19/2017	**8,720**	**17,400**
	10/6/2017	**11,400**	**20,200**
	1/12/2018	**10,400**	**16,200**
	4/6/2018	**10,500**	**17,200**
	7/3/2018	**10,300**	**16,300**
	10/4/2018	**14,200**	**18,700**
	1/8/2019	**12,000**	**10,900**
	4/10/2019	**10,900**	**16,200**
	7/16/2019	**11,300**	**18,000**
	10/17/2019	**12,400**	**20,600**
	1/22/2020	**11,700**	**16,800**
	4/13/2020	**11,700**	**19,800**
	7/15/2020	**10,100**	**21,900**
	10/12/2020	**13,000**	**19,900**
	1/11/2021	**11,000**	**17,600**
	4/7/2021	NS	NS
	7/27/2021	**13,800**	**21,200**
MW-23			
	7/21/2016	**1,430**	**3,050**
	1/11/2017	**2,120**	**4,130**
	4/10/2017	**3,010**	**8,750**
	7/19/2017	**1,680**	**3,550**
	10/6/2017	**4,520**	**7,370**
	1/12/2018	**5,230**	**9,340**
	4/6/2018	**6,830**	**10,100**
	7/3/2018	**4,390**	**6,870**
	10/4/2018	**6,090**	**8,980**
	1/8/2019	**7,910**	**9,780**
	4/10/2019	**6,540**	**10,200**
	7/16/2019	**3,420**	**9,780**
	10/17/2019	**3,840**	**10,200**
	1/22/2020	**7,140**	**10,400**
	4/13/2020	**3,540**	**7,780**
	7/15/2020	**6,060**	**12,600**
	10/12/2020	**5,450**	**8,810**
	1/11/2021	**4,160**	**8,970**
	4/7/2021	NS	NS
	7/27/2021	**7,810**	**13,200**
MW-24			
	7/20/2016	**3,720**	**8,910**
	1/12/2017	**4,740**	**8,690**
	4/7/2017	**4,520**	**11,200**
	7/18/2017	**3,880**	**8,600**
	10/6/2017	**3,930**	**8,500**
	1/12/2018	**4,060**	**8,170**
	4/5/2018	**3,980**	**7,080**
	7/3/2018	**4,140**	**8,210**

Appendix D

Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
	10/4/2018	**4,850**	**8,870**
	1/8/2019	**3,320**	**1,020**
	4/9/2019	**4,370**	**8,250**
	7/15/2019	**4,180**	**8,860**
	10/16/2019	**4,150**	**8,980**
	1/23/2020	**4,470**	**8,980**
	4/14/2020	**2,770**	**9,190**
	7/15/2020	**4,430**	**9,130**
	10/12/2020	**4,330**	**9,440**
	1/11/2021	**1,680**	**8,690**
	4/7/2021	NS	NS
	7/27/2021	**4,340**	**8,770**
MW-25			
	7/21/2016	**560**	**1,510**
	1/11/2017	**24,400**	**29,700**
	4/10/2017	**23,100**	**49,600**
	7/18/2017	**18,800**	**32,800**
	10/6/2017	**18,300**	**33,200**
	1/12/2018	**20,900**	**31,400**
	4/5/2018	**22,400**	**32,800**
	7/3/2018	**23,600**	**37,600**
	10/4/2018	**26,500**	**39,000**
	1/8/2019	**23,500**	**29,800**
	4/9/2019	**24,100**	**33,100**
	7/15/2019	**23,200**	**33,200**
	10/17/2019	**20,900**	**24,800**
	1/23/2020	**25,200**	**36,400**
	4/14/2020	**24,200**	**38,500**
	7/15/2020	**26,100**	**37,300**
	10/12/2020	**24,100**	**36,900**
	1/11/2021	**23,900**	**36,600**
	4/7/2021	NS	NS
	7/27/2021	**23,200**	**37,300**
MW-26			
	1/12/2017	**1,220**	**2,840**
	4/7/2017	**1,190**	**3,160**
	7/18/2017	**1,140**	**3,060**
	10/6/2017	**1,120**	**2,570**
	1/12/2018	**1,160**	**2,860**
	4/5/2018	**1,230**	**2,730**
	7/5/2018	**1,210**	**2,810**
	10/4/2018	**1,340**	**2,750**
	1/8/2019	**1,190**	**2,740**
	4/9/2019	**1,340**	**2,830**
	7/15/2019	**1,360**	**2,960**
	10/16/2019	**1,340**	**3,250**
	1/23/2020	**1,460**	**3,220**
	4/14/2020	**1,230**	**3,260**
	7/15/2020	**1,480**	**3,520**
	10/12/2020	**1,500**	**3,320**
	1/11/2021	**1,400**	**3,370**
	4/7/2021	NS	NS
	7/27/2021	**1,490**	**3,180**
MW-27			
	7/20/2016	**1,340**	**3,080**
	1/11/2017	**2,400**	**4,160**
	4/7/2017	**2,380**	**4,520**
	7/18/2017	**2,110**	**4,150**
	10/6/2017	**2,280**	**4,610**
	1/12/2018	**2,260**	**4,220**
	4/5/2018	**2,400**	**4,250**
	7/3/2018	**2,510**	**4,790**
	10/3/2018	**3,030**	**4,700**
	1/8/2019	**2,420**	**4,110**
	4/5/2019	**2,830**	**4,490**
	7/15/2019	**2,540**	**4,440**
	10/16/2019	**2,490**	**4,160**
	1/21/2020	**2,420**	**4,230**
	4/14/2020	**1,770**	**4,170**
	7/15/2020	**2,950**	**5,120**
	10/12/2020	**2,490**	**4,200**
	1/11/2021	**2,210**	**4,160**

Appendix D

Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
	4/7/2021	NS	NS
	7/27/2021	**2,330**	**4,060**
MW-28			
	1/10/2017	**917**	**2,520**
	4/7/2017	**1,090**	**2,650**
	7/17/2017	**1,190**	**2,730**
	10/6/2017	**1,240**	**3,270**
	1/12/2018	**1,470**	**1,280**
	4/5/2018	**1,540**	**2,660**
	7/6/2018	**1,610**	**2,540**
	10/3/2018	**1,760**	**3,020**
	1/7/2019	**1,510**	**3,050**
	4/5/2019	**851**	**3,260**
	7/15/2019	**2,180**	**3,490**
	10/16/2019	**2,410**	**3,780**
	1/23/2020	**2,450**	**4,100**
	4/10/2020	**2,400**	**4,080**
	7/14/2020	**3,370**	**6,510**
	10/8/2020	**3,780**	**8,160**
	1/8/2021	**3,940**	**6,840**
	4/7/2021	NS	NS
	7/26/2021	**2,710**	**6,890**
MW-29			
	1/10/2017	**354**	946
	4/7/2017	**386**	**1,160**
	7/17/2017	**393**	**1,060**
	10/6/2017	**374**	**1,100**
	1/12/2018	**397**	601
	4/5/2018	**396**	**1,100**
	7/6/2018	**397**	860
	10/3/2018	**409**	**1,070**
	1/7/2019	**359**	**7,270**
	4/5/2019	**508**	**1,100**
	7/15/2019	**500**	**1,140**
	10/16/2019	**501**	**1,200**
	1/23/2020	**535**	**1,250**
	4/10/2020	**552**	**1,270**
	7/14/2020	**563**	**1,460**
	10/8/2020	**637**	**1,460**
	1/8/2021	**550**	**1,280**
	4/7/2021	NS	NS
	7/26/2021	**605**	**1,290**
MW-30			
	7/19/2017	**2,360**	**4,540**
	10/6/2017	**2,420**	**5,270**
	1/12/2018	**2,350**	**4,160**
	4/6/2018	**2,240**	**1,310**
	7/3/2018	**2,280**	**3,650**
	10/4/2018	**2,550**	**3,820**
	1/8/2019	**2,460**	**3,860**
	4/10/2019	**2,400**	**4,160**
	7/16/2019	**1,500**	**4,200**
	10/17/2019	**2,340**	**3,880**
	1/22/2020	**2,520**	**4,290**
	4/14/2020	**1,300**	**3,960**
	7/15/2020	**2,290**	**4,530**
	10/12/2020	**2,240**	**4,090**
	1/11/2021	**2,100**	**4,050**
	4/7/2021	NS	NS
	7/28/2021	**2,160**	**3,970**
MW-31			
	7/18/2017	**7,980**	**13,600**
	10/6/2017	**8,540**	**16,600**
	1/12/2018	**10,700**	**16,400**
	4/5/2018	**11,700**	**17,700**
	7/3/2018	**12,100**	**19,800**
	10/4/2018	**12,800**	**19,500**
	1/8/2019	**11,100**	**10,300**
	4/5/2019	**11,800**	**16,200**
	7/15/2019	**10,900**	**16,600**
	10/16/2019	**10,500**	**17,900**
	1/23/2020	**11,700**	**17,100**

Appendix D

Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
	4/14/2020	**9,960**	**17,900**
	7/15/2020	**8,890**	**17,800**
	10/12/2020	**10,200**	**16,700**
	1/11/2021	**9,500**	**17,100**
	4/7/2021	NS	NS
	7/27/2021	**7,790**	**17,900**
MW-32			
	4/10/2019	**373**	**1,170**
	7/15/2019	**314**	**1,090**
	10/15/2019	271	**1,110**
	1/23/2020	**327**	**1,080**
	4/10/2020	**342**	**1,130**
	7/15/2020	**321**	**1,140**
	10/8/2020	**349**	**1,110**
	1/8/2021	**349**	**1,170**
DUP	1/8/2021	**303**	**1,170**
	4/7/2021	**341**	**1,120**
DUP	4/7/2021	**323**	**1,170**
	7/26/2021	**373**	**1,160**
DUP	7/26/2021	**370**	**1,140**
MW-33			
	4/10/2019	183	912
	7/15/2019	153	988
	10/15/2019	156	**1,040**
	1/23/2020	185	**1,010**
	4/10/2020	190	**1,100**
	7/14/2020	196	**1,060**
	10/8/2020	201	**1,090**
	1/8/2021	190	**1,060**
	4/7/2021	185	**1,040**
	7/26/2021	213	**1,050**
MW-34			
	4/10/2019	69.9	600
	7/15/2019	64.2	621
	10/15/2019	66.5	604
	1/23/2020	73.3	606
	4/10/2020	69.6	618
	7/14/2020	71.3	613
	10/8/2020	73.3	608
	1/8/2021	70.8	610
	4/7/2021	66.0	619
	7/26/2021	72.7	613
NM-MW-1			
	12/3/2015	266	**1,540**
	1/28/2016	283	**1,470**
	7/22/2016	294	**1,420**
	1/12/2017	**383**	**1,570**
	4/7/2017	291	**1,510**
	7/13/2017	287	**1,520**
	10/6/2017	271	**1,500**
	1/12/2018	271	933
	4/5/2018	263	**1,400**
	7/6/2018	275	**1,350**
	10/3/2018	279	**1,460**
	1/7/2019	256	**1,370**
	4/4/2019	**330**	**1,400**
	7/11/2019	291	**1,380**
	10/15/2019	281	**1,450**
	1/20/2020	286	**1,390**
	4/9/2020	277	**1,440**
	7/14/2020	293	**1,450**
	10/7/2020	288	**1,450**
	1/7/2021	273	**1,410**
	4/7/2021	NS	NS
	7/23/2021	292	**1,370**
NM-MW-2			
	12/3/2015	**640**	**2,620**
	1/28/2016	**658**	**1,920**
	7/22/2016	**638**	858
	1/12/2017	**790**	**1,770**
	4/7/2017	**656**	**1,590**
	7/13/2017	**653**	**1,340**

Appendix D

Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
	10/6/2017	**650**	**1,410**
	1/12/2018	**639**	990
	4/5/2018	**610**	**1,210**
	7/6/2018	**679**	**1,160**
	10/3/2018	**674**	**1,270**
	1/7/2019	**616**	**1,210**
	4/4/2019	**736**	**1,230**
	7/11/2019	**397**	**1,330**
	10/15/2019	**666**	**1,240**
	1/20/2020	**643**	**1,240**
	4/9/2020	**734**	**1,270**
	7/14/2020	**696**	**1,530**
	10/7/2020	**706**	**1,370**
	1/7/2021	**659**	**1,230**
	4/7/2021	NS	NS
	7/23/2021	**770**	**1,340**
NM-MW-3			
	12/3/2015	**648**	**3,900**
	1/28/2016	**327**	**1,870**
	7/22/2016	121	524
	1/12/2017	224	581
	4/7/2017	161	564
	7/13/2017	186	592
	10/6/2017	276	626
	1/12/2018	221	501
	4/5/2018	180	601
	7/6/2018	220	625
	10/3/2018	246	708
	1/7/2019	**447**	**1,250**
	4/4/2019	259	653
	7/11/2019	184	581
	10/15/2019	183	596
	1/20/2020	241	649
	4/9/2020	255	721
	7/14/2020	261	811
	10/7/2020	253	731
	1/7/2021	264	680
	4/7/2021	NS	NS
	7/23/2021	**345**	781
NM-MW-4			
	12/3/2015	**739**	**2,960**
	1/28/2016	22.8	821
	7/22/2016	40.9	444
	1/12/2017	48.7	379
	4/7/2017	35.0	410
	7/13/2017	36.1	422
	10/6/2017	42.0	468
	1/12/2018	39	217
	4/5/2018	34	410
	7/6/2018	40.6	414
	10/3/2018	39.7	411
	1/7/2019	258	**1,240**
	4/4/2019	188	420
	7/11/2019	40.6	423
	10/15/2019	46.2	430
	1/20/2020	44.1	388
	4/9/2020	45.8	513
	7/14/2020	46.9	419
	10/7/2020	47.7	431
	1/7/2021	44.4	435
	4/7/2021	NS	NS
	7/23/2021	48	417
NM-MW-5			
	12/3/2015	NS	NS
	1/28/2016	144	**1,250**
	7/22/2016	129	**1,270**
	1/12/2017	182	**1,320**
	4/7/2017	145	**1,260**
	7/13/2017	147	**1,340**
	10/6/2017	144	**1,090**
	1/12/2018	133	893
	4/5/2018	134	**1,300**

Appendix D

Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
	7/6/2018	140	**1,240**
	10/3/2018	138	**1,290**
	1/7/2019	142	**1,280**
	4/4/2019	175	**1,240**
	7/11/2019	149	**1,290**
	10/15/2019	170	**1,320**
	1/20/2020	152	**1,240**
	4/9/2020	158	**1,310**
	7/14/2020	162	**1,250**
	10/7/2020	155	**1,330**
	1/7/2021	146	**1,260**
	4/7/2021	NS	NS
	7/23/2021	156	**1,280**
NM-MW-6			
	12/2/2015	188	**1,240**
	1/28/2016	183	**1,060**
	7/22/2016	121	817
	1/12/2017	168	825
	4/7/2017	143	852
	7/13/2017	138	818
	10/6/2017	132	742
	1/12/2018	137	468
	4/5/2018	127	836
	7/6/2018	134	801
	10/3/2018	138	833
	1/7/2019	113	813
	4/4/2019	161	813
	7/12/2019	143	863
	10/15/2019	139	827
	1/20/2020	145	750
	4/9/2020	145	834
	7/14/2020	152	828
	10/7/2020	147	826
	1/7/2021	142	811
	4/7/2021	NS	NS
	7/23/2021	151	821
NM-MW-7			
	12/3/2015	**696**	**3,200**
	1/28/2016	**1,840**	**3,150**
	7/22/2016	**1,890**	**5,320**
	1/12/2017	**2,390**	**3,770**
	4/7/2017	**2,180**	**4,770**
	7/13/2017	**2,120**	**4,100**
	10/6/2017	**2,070**	**4,200**
	1/12/2018	**2,110**	**2,370**
	4/5/2018	**2,090**	**4,270**
	7/6/2018	**2,330**	**3,780**
	10/3/2018	**2,380**	**4,050**
	1/7/2019	**2,040**	**5,190**
	4/4/2019	**1,940**	**4,160**
	7/11/2019	**2,600**	**4,390**
	10/15/2019	**2,370**	**4,240**
	1/20/2020	**2,450**	**4,410**
	4/9/2020	**2,460**	**4,620**
	7/14/2020	**2,360**	**5,250**
	10/7/2020	**2,270**	**4,860**
	1/7/2021	**2,170**	**4,550**
	4/7/2021	NS	NS
	7/23/2021	**2,220**	**4,360**
NM-MW-8			
	3/3/2017	**4,870**	**9,740**
	4/7/2017	**4,870**	**12,800**
	7/13/2017	**5,010**	**9,040**
	10/4/2017	**5,000**	**10,900**
	1/12/2018	**5,260**	**5,240**
	4/5/2018	**5,110**	**9,160**
	7/6/2018	**5,960**	**9,620**
	10/3/2018	**6,260**	**11,000**
	1/7/2019	**4,630**	**8,040**
	4/4/2019	**6,690**	**10,100**
	7/11/2019	**6,200**	**9,310**
	10/15/2019	**7,120**	**10,700**

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Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
	1/20/2020	**6,220**	**10,400**
	4/9/2020	**6,680**	**11,700**
	7/14/2020	**6,540**	**12,400**
	10/7/2020	**6,370**	**11,100**
	1/7/2021	**6,110**	**11,200**
	4/7/2021	NS	NS
	7/23/2021	**3,290**	**11,400**
NM-MW-9			
	1/13/2017	NS	NS
	4/10/2017	NS	NS
	7/17/2017	224	776
	10/4/2017	263	813
	1/12/2018	221	717
	4/5/2018	234	804
	7/6/2018	252	785
	10/3/2018	258	799
	1/7/2019	**2,620**	**4,160**
	4/5/2019	297	786
	7/12/2019	264	797
	10/15/2019	243	812
	1/22/2020	**555**	**1,090**
	4/10/2020	263	833
	7/13/2020	271	852
	10/8/2020	256	811
	1/8/2021	242	789
	4/7/2021	NS	NS
	7/26/2021	258	808
NM-MW-10			
	1/10/2017	**314**	**1,550**
	4/7/2017	**355**	**1,570**
	7/17/2017	**308**	**1,600**
	10/4/2017	**302**	**1,550**
	1/12/2018	**314**	**1,050**
	4/5/2018	**301**	**1,620**
	7/6/2018	**308**	**1,450**
	10/3/2018	**315**	**1,520**
	1/7/2019	290	**1,530**
	4/4/2019	**396**	**1,670**
	7/12/2019	**354**	**1,680**
	10/15/2019	**340**	**1,670**
	1/20/2020	**357**	**1,620**
	4/10/2020	**367**	**1,720**
	7/13/2020	**366**	**1,650**
	10/8/2020	**366**	**1,720**
	1/8/2021	**336**	**1,700**
	4/7/2021	NS	NS
	7/23/2021	**363**	**1,730**
NM-MW-11			
	1/10/2017	190	**2,100**
	4/7/2017	158	**1,980**
	7/17/2017	135	**2,020**
	10/4/2017	154	**1,940**
	1/12/2018	155	**1,710**
	4/5/2018	**699**	**1,920**
	7/6/2018	143	**1,820**
	10/3/2018	152	**1,920**
	1/7/2019	154	**1,840**
	4/4/2019	185	**1,870**
	7/12/2019	157	**1,980**
	10/15/2019	134	**1,530**
	1/20/2020	161	**1,870**
	4/9/2020	160	**1,990**
	7/10/2020	178	**2,120**
	10/8/2020	181	**1,960**
	1/8/2021	152	**2,030**
	4/7/2021	NS	NS
	7/26/2021	174	**1,990**
DUP	7/26/2021	175	**1,950**
NM-MW-12			
	3/3/2017	**760**	**1,460**
	4/7/2017	**725**	**2,230**
	7/17/2017	**726**	**1,540**

Appendix D

Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
	10/4/2017	**643**	**1,590**
	1/12/2018	**663**	**1,470**
	4/5/2018	**656**	**1,430**
	7/6/2018	**665**	**1,250**
	10/3/2018	**668**	**1,390**
	1/7/2019	**596**	**1,300**
	4/4/2019	**739**	**1,310**
	7/12/2019	**657**	524
	10/15/2019	**512**	**1,380**
	1/20/2020	NS	NS
	4/10/2020	**591**	**1,290**
	7/10/2020	**589**	**1,270**
	10/8/2020	**580**	**1,280**
	1/8/2021	**430**	**1,160**
	4/7/2021	NS	NS
	7/26/2021	**485**	**1,090**
NM-MW-13			
	3/3/2017	183	**1,020**
	4/7/2017	192	**1,110**
	7/17/2017	185	**1,100**
	10/4/2017	183	**1,100**
	1/12/2018	188	965
	4/5/2018	180	**1,090**
	7/6/2018	184	**1,050**
	10/3/2018	185	**1,110**
	1/7/2019	165	**1,070**
	4/4/2019	225	**1,090**
	7/12/2019	199	**1,090**
	10/15/2019	179	**1,100**
	1/20/2020	203	**1,060**
	4/9/2020	201	**1,090**
	7/10/2020	212	**1,130**
	10/8/2020	211	**1,100**
	1/8/2021	185	**1,110**
DUP	1/8/2021	186	**1,130**
	4/7/2021	NS	NS
	7/26/2021	203	**1,100**
NM-MW-14			
	2/18/2020	24.4	457
	4/10/2020	25.7	482
	7/13/2020	25.0	488
	10/8/2020	26.4	465
	1/8/2021	95.2	455
	4/7/2021	26.4	466
	7/26/2021	28	500
NM-MW-15			
	2/18/2020	55.9	499
	4/9/2020	55.6	530
	7/10/2020	57.3	509
	10/8/2020	59.9	521
	1/8/2021	56.4	507
	4/7/2021	58.1	519
	7/26/2021	57	516
NM-MW-16			
	2/18/2020	NS	NS
	4/9/2020	NS	NS
	7/10/2020	NS	NS
	10/8/2020	NS	NS
	1/8/2021	NS	NS
	4/7/2021	NS	NS
	7/26/2021	NS	NS
NM-MW-17			
	2/18/2020	160	989
	4/9/2020	198	**1,070**
	7/10/2020	211	978
	10/8/2020	216	976
	1/8/2021	182	971
	4/7/2021	207	**1,010**
	7/26/2021	212	**1,010**
NM-MW-20			
	2/18/2020	21.8	372
	4/9/2020	21.0	408

Appendix D

Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
	7/10/2020	22.2	377
	10/8/2020	23.0	402
	1/8/2021	23.9	381
	4/7/2021	23.4	377
	7/26/2021	22	409
NM-MW-21			
	2/18/2020	31.5	533
	4/9/2020	28.3	560
	7/10/2020	28.8	524
	10/8/2020	29.8	523
	1/8/2021	29.0	541
	4/7/2021	28.1	529
	7/26/2021	28	558
Non-Remedial Wells			
DHU-FWS			
	01/06	**564**	**3,082**
	03/06	**581**	**3,181**
	6/14/2006	**553**	**3,020**
	9/12/2006	**584**	**2,650**
	12/6/2006	**636**	**3,070**
	7/30/2007	**646**	**3,010**
	1/21/2008	**637**	**3,140**
	7/7/2008	**546**	**3,050**
	1/26/2009	**610**	**3,040**
	8/21/2009	**580**	**3,000**
	2/17/2010	NS	**3,000**
	2/18/2010	**401**	NS
	8/16/2010	**771**	**3,060**
	2/10/2011	**577**	**2,840**
	8/2/2011	**612**	**2,960**
	1/31/2012	**866**	**2,910**
	7/19/2016	**629**	**2,810**
	1/11/2017	**670**	**3,060**
	4/10/2017	NS	NS
	7/14/2017	**587**	**3,020**
	10/9/2017	**565**	**2,990**
	1/12/2018	**615**	**2,820**
	4/5/2018	**572**	**2,640**
	7/5/2018	**593**	**2,710**
	10/3/2018	**593**	**2,830**
	1/7/2019	**611**	**2,900**
	4/5/2019	**658**	**3,120**
	7/15/2019	**624**	**3,020**
	10/16/2019	**603**	**2,950**
	1/22/2020	NS	NS
	4/13/2020	**570**	**2,940**
	7/14/2020	**628**	**3,120**
	10/12/2020	**650**	**3,240**
	1/12/2021	**625**	**3,120**
	4/7/2021	NS	NS
	7/26/2021	NS	NS
DHU-Office			
	04/06	**376**	**2,434**
DHU- Office (CHRM)			
	04/06	**382**	**2,460**
Livermore			
	01/06	NS	NS
	03/06	**6,946**	**11,381**
	6/14/2006	**8,320**	**14,300**
	9/12/2006	**7,400**	**12,000**
	12/7/2006	**5,750**	**12,000**
	2/28/2007	**5,770**	**11,200**
	7/30/2007	**5,910**	**12,600**
	7/7/2008	**5,280**	**9,340**
	1/29/2009	**4,670**	**8,200**
	8/25/2009	**4,630**	**8,260**
	2/18/2010	**3,700**	**7,560**
	8/20/2010	**4,390**	**7,920**
	2/15/2011	**4,400**	**7,430**
	8/5/2011	**4,230**	**7,230**
	2/3/2012	**3,310**	**6,790**
	8/7/2012	**3,730**	NS

Appendix D

Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
	1/30/2013	**3,810**	**6,080**
	7/31/2013	**3,630**	**6,240**
	1/15/2014	**3,450**	**5,580**
	7/16/2014	**3,190**	**6,830**
	1/14/2015	**3,200**	**6,490**
	7/17/2015	**5,380**	**11,500**
	1/29/2016	**3,110**	**4,530**
	7/21/2016	**3,040**	**5,710**
	1/11/2017	**2,940**	**4,970**
	4/10/2017	NS	NS
	7/19/2017	**2,870**	**4,800**
	10/9/2017	**2,700**	**4,200**
	1/12/2018	**2,700**	**4,830**
	4/6/2018	**2,530**	**1,430**
	7/3/2018	**2,560**	**4,580**
	10/4/2018	**2,710**	**4,020**
	1/8/2019	**2,530**	**4,330**
	4/10/2019	**2,660**	**4,670**
	7/16/2019	**1,340**	**4,720**
	10/17/2019	**2,490**	**4,160**
	1/22/2020	**2,700**	**4,560**
	4/13/2020	**1,880**	**4,300**
	7/15/2020	**2,440**	**5,200**
	10/12/2020	**2,450**	**4,430**
	1/11/2021	**2,200**	**4,290**
	4/7/2021	NS	NS
	7/28/2021	**2,200**	**4,260**
DUP	7/28/2021	**2,190**	**4,220**
Pure Water Tower			
	01/06	**6,976**	**12,456**
	03/06	NS	NS
	6/14/2006	**7,890**	**16,200**
	9/12/2006	**8,200**	**13,100**
	12/6/2006	**8,070**	**14,600**
	2/27/2007	**6,400**	**12,800**
	7/30/2007	**7,450**	**15,400**
	1/21/2008	**11,800**	**20,100**
	1/26/2009	**5,010**	**12,100**
	8/21/2009	**6,920**	**12,900**
	2/17/2010	NS	**19,800**
	2/18/2010	**9,880**	NS
	8/16/2010	**11,800**	**23,000**
	6/28/2011	**9,260**	**20,500**
	8/5/2011	**6,470**	**12,900**
	1/31/2012	**5,380**	**11,500**
	7/14/2020	NS	NS
	10/12/2020	NS	NS
	1/8/2021	NS	NS
	7/28/2021	NS	NS
Pure Water Well			
	01/06	NS	NS
	03/06	NS	NS
	6/14/2006	**5,820**	**11,200**
	9/12/2006	**6,260**	**13,900**
	12/6/2006	**2,790**	**5,680**
	7/23/2007	**4,060**	**9,500**
	1/21/2008	**2,560**	**4,590**
	7/7/2008	**1,030**	**2,320**
	1/26/2009	**4,390**	**10,400**
	8/21/2009	**5,240**	**9,840**
	2/17/2010	NS	**9,160**
	2/18/2010	**1,810**	NS
	2/10/2011	**5,070**	**12,900**
	8/5/2011	**5,430**	**12,900**
	8/21/2012	**4,650**	**10,200**
	1/30/2013	**4,880**	**8,800**
	10/25/2013	**5,340**	**11,100**
	1/13/2014	**4,830**	**10,700**
	7/17/2015	**754**	**1,890**
	7/14/2020	NS	NS
	10/12/2020	NS	NS
	1/8/2021	NS	NS

Appendix D

Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
	7/28/2021	NS	NS
RRR Ranch Windmill			
	01/06	NS	NS
	03/06	**1,693**	**3,527**
	6/14/2006	**1,760**	**3,640**
	1/28/2016	**1,430**	**2,760**
	7/22/2016	**1,460**	**3,940**
	1/12/2017	**1,760**	**3,030**
	4/10/2017	NS	NS
	7/17/2017	**1,570**	**3,300**
	10/9/2017	**2,620**	**3,870**
	1/12/2018	**650**	**1,500**
	4/5/2018	**1,620**	**3,110**
	7/6/2018	**1,670**	**3,030**
	10/3/2018	**1,660**	**3,000**
	1/7/2019	**1,290**	**2,950**
	4/4/2019	47.4	**3,110**
	7/11/2019	**1,800**	**3,560**
	10/15/2019	**1,800**	**3,500**
	1/23/2020	**1,850**	**3,520**
	4/9/2020	**1,860**	**3,460**
	7/14/2020	**1,930**	**4,490**
	10/7/2020	**1,960**	**4,110**
	1/7/2021	**2,030**	**3,780**
DUP	1/7/2021	**1,930**	**3,830**
	7/23/2021	**2,110**	**3,740**
TRAC-4			
	01/06	**432**	**1,237**
	03/06	**581**	**3,181**
	6/14/2006	**402**	**1,270**
	9/11/2006	**428**	**1,310**
	12/7/2006	**456**	**1,300**
	2/27/2007	**435**	**1,240**
	7/30/2007	**493**	**1,320**
	1/21/2008	**421**	**1,220**
	7/7/2008	**461**	**1,290**
	1/26/2009	**546**	**1,320**
	8/21/2009	**471**	**1,330**
	2/17/2010	NS	**1,320**
	2/18/2010	**469**	NS
	2/15/2011	**549**	**1,340**
	8/4/2011	**455**	**1,250**
	1/31/2012	**445**	**1,150**
	8/2/2012	**433**	NS
	7/31/2013	**427**	**1,170**
	7/18/2014	**470**	**1,480**
	7/17/2015	**425**	**1,210**
	1/28/2016	**400**	**1,280**
	7/19/2016	NS	NS
	1/11/2017	**377**	**1,160**
	4/10/2017	NS	NS
	7/19/2017	**350**	**1,100**
	10/9/2017	**348**	**1,110**
	1/12/2018	**335**	**1,120**
	4/6/2018	**401**	**1,040**
	7/3/2018	**343**	**1,040**
	10/4/2018	**347**	**1,070**
	1/7/2019	**315**	**1,080**
	4/9/2019	**350**	**1,070**
	7/16/2019	**333**	**1,110**
	10/17/2019	**323**	**1,070**
	1/22/2020	NS	NS
	4/10/2020	NS	NS
	7/14/2020	NS	NS
	10/12/2020	NS	NS
	1/8/2021	NS	NS
	4/7/2021	NS	NS
	7/28/2021	NS	NS
TRAC-8			
	01/06	**2,090**	**3,786**
	03/06	**2,090**	**3,801**
	6/14/2006	**1,740**	**3,830**

Appendix D

Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
	9/11/2006	**1,990**	**4,630**
	12/6/2006	**2,130**	**4,600**
	2/27/2007	**2,220**	**4,630**
	7/30/2007	**2,220**	**5,110**
	1/21/2008	**2,100**	**3,580**
	7/7/2008	**2,010**	**4,170**
	1/26/2009	**2,250**	**4,280**
	8/21/2009	**2,260**	**4,140**
	3/8/2010	**2,240**	**4,430**
	8/16/2010	**2,360**	**4,350**
	2/10/2011	**2,880**	**4,750**
	8/4/2011	**2,450**	**5,170**
	1/31/2012	**2,120**	**4,600**
	8/2/2012	**1,600**	NS
	1/30/2013	**1,920**	**3,420**
	7/31/2013	**1,760**	**4,060**
	1/13/2014	**1,650**	**3,270**
	7/17/2014	**1,770**	**4,670**
	1/13/2015	**1,810**	**4,300**
	1/28/2016	NS	NS
	7/19/2016	**2,000**	**4,380**
	7/14/2020	NS	NS
	10/12/2020	NS	NS
	1/8/2021	NS	NS
	7/28/2021	NS	NS
Wilson Ranch			
	01/06	**2,243**	**3,578**
	03/06	NS	NS
	6/14/2006	**2,410**	**4,980**
	9/12/2006	**2,510**	**4,450**
	12/7/2006	**2,350**	**4,750**
	2/27/2007	**2,110**	**4,020**
	7/30/2007	**2,440**	**5,240**
	1/21/2008	**2,690**	**3,880**
	7/7/2008	**2,030**	**3,810**
	8/25/2009	**2,320**	**5,350**
	2/12/2016	**888**	**2,230**
	7/19/2016	**1,500**	**3,250**
	1/10/2017	**1,300**	**3,130**
	4/10/2017	NS	NS
	7/16/2017	**1,140**	**2,380**
	10/9/2017	**1,200**	**2,800**
	1/12/2018	**673**	**1,600**
	4/6/2018	**1,360**	**2,950**
	7/6/2018	**1,330**	**2,190**
	10/3/2018	**1,380**	**2,680**
	1/7/2019	**1,070**	**2,420**
	4/4/2019	**1,480**	**2,440**
	7/12/2019	**1,300**	**2,530**
	10/15/2019	**928**	**1,880**
	1/22/2020	**1,330**	**2,790**
	4/10/2020	**1,260**	**2,530**
	7/10/2020	**1,030**	**1,990**
	10/8/2020	**784**	**1,710**
	1/8/2021	**526**	**2,070**
	4/7/2021	NS	NS
	7/26/2021	**1,070**	**1,970**
Smith Residential Well			
	1/13/2017	**1,600**	**2,580**
	4/10/2017	NS	NS
	7/17/2017	**1,050**	**2,230**
	10/9/2017	**1,260**	**2,660**
	1/12/2018	**650**	**1,500**
	4/5/2018	**1,280**	**2,670**
	7/6/2018	**1,340**	**2,140**
	10/3/2018	**1,310**	**2,260**
	1/7/2019	**1,020**	**2,230**
	4/5/2019	**1,510**	**2,490**
	7/12/2019	**1,300**	**2,660**
	10/15/2019	**1,180**	**2,140**
	1/22/2020	**1,360**	**2,550**

Appendix D

Historical Groundwater Analytical Results Summary
Scout Dollarhide Unit
Dollarhide, Texas

Sample Location	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)
TCEQ Secondary Drinking Water Standards (mg/L)		**300**	**1,000**
	4/10/2020	**1,310**	**2,600**
	7/10/2020	**1,310**	**2,570**
	10/8/2020	**753**	**1,570**
	1/8/2021	**1,040**	**1,940**
	4/7/2021	NS	NS
	7/26/2021	**1,040**	**1,880**

Notes:
1. Constituent concentrations are reported in milligrams per liter (mg/L).
2. Bold font and shading indicates that a detected result exceeded the TCEQ Secondary Drinking Water Standard.

NS = Not Sampled
NS = Not Applicable

Appendix E

Data Validation Reports

GHD Digital

Technical Memorandum

09 March 2022

To	Phillip Moore		
Copy to	Nick Casten		
From	Chris G. Knight/eew/1-NF	**Tel**	512 506 8803
Subject	Analytical Results and Reduced Validation Groundwater Monitoring Well Sampling Scout EP/Dollarhide Andrews County, Texas January 2022	**Project no.**	12564966

1. Introduction

The following document details a reduced validation of analytical results for groundwater samples collected at the Scout EP/Dollarhide site during January 2022. Samples were submitted to Eurofins Environment Testing America, located in Midland, Texas. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody form, finished report forms, method blank data, duplicate data, recovery data from laboratory control sample/laboratory control duplicate samples (LCS/LCSD), matrix spikes/matrix spike duplicates (MS/MSD), laboratory duplicates, and field QA/QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

1. "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review", EPA 540-R-2016-001, September 2016.

Item 1 will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. The sample chain of custody document and the analytical reports were used to determine sample holding times. All samples were analyzed within the required holding times.

All samples were delivered on ice and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

4. Laboratory Control Sample Analyses

LCS/Laboratory Control Sample Duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS/LCSD contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries and RPDs were within the control limits, demonstrating acceptable analytical accuracy and precision.

5. Matrix Spike Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/matrix spike duplicate (MSD) samples. The RPD between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1. The recovery ranges established by the laboratory are adopted as the acceptance criteria for the project.

The MS/MSD samples were spiked with chloride. All percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision with the following exceptions:

i) Several MS/MSDs were reported with outlying recoveries for chloride analysis due to possible matrix interferences and were not assessed. No further actin was required.

ii) Several MS/MSDs were reported with outlying recoveries for chloride analysis. The original sample concentrations were significantly greater than the spike concentration. Therefore, the recoveries were not assessed. No further action was required.

iii) An MS/MSD was reported with an elevated MS recovery for chloride analysis. If only the MS or MSD recovery was outside of control limits, no qualification of the data was performed based on the acceptable recovery of the companion spike and the acceptable RPD. No further action was required.

The laboratory also performed additional MS/MSD analyses on non-site samples. These cannot be used to assess accuracy and precision for the site samples.

6. Duplicate Sample Analyses

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory as specified in Table 1 for total dissolved solids (TDS). The duplicate results were evaluated per the "Guidelines".

All duplicate analyses performed were acceptable, demonstrating acceptable analytical precision.

The laboratory also performed additional duplicate analyses on non-site samples. These cannot be used to assess precision for the site samples.

7. Field QA/QC Samples

The field QA/QC consisted of 5 field duplicate sample sets.

To assess the analytical and sampling protocol precision, 5 field duplicate sample sets were collected and submitted to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criterion is one times the RL value.

Field duplicate summary data are presented in Table 2. All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision.

8. Analyte Reporting

The laboratory reported detected results down to the laboratory's RL for each analyte.

9. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable without qualification.

Regards

Chris G. Knight

Data Management Team – Data Validator

Table 1

Sample Collection and Analysis Summary
Groundwater Monitoring Well Sampling
Scout EP/Dollarhide
Andrews County, Texas
January 2022

					Analysis/Parameters		
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**Chloride**	**TDS**	**Comments**
NM-MW-7-W-222501	NM-MW-7	Water	01/25/2022	11:15	X	X	
RRR-RanchWindmill-W-222501	Ranch Windmill	Water	01/25/2022	11:30	X	X	
NM-MW-4-W-222501	NM-MW-4	Water	01/25/2022	11:45	X	X	
NM-MW-8-W-222501	NM-MW-8	Water	01/25/2022	12:05	X	X	
NM-MW-3-W-222501	NM-MW-3	Water	01/25/2022	12:25	X	X	MS/MSD
NM-MW-2-W-222501	NM-MW-2	Water	01/25/2022	12:35	X	X	DUP
NM-MW-1-W-222501	NM-MW-1	Water	01/25/2022	12:50	X	X	
NM-MW-5-W-222501	NM-MW-5	Water	01/25/2022	13:10	X	X	
NM-MW-6-W-222501	NM-MW-6	Water	01/25/2022	13:25	X	X	
NM-MW-13-W-222501	NM-MW-13	Water	01/25/2022	14:00	X	X	DUP
NM-MW-13-WD-222501	NM-MW-13	Water	01/25/2022	14:00	X	X	Field duplicate of NM-MW-13
NM-MW-11-W-222501	NM-MW-11	Water	01/25/2022	14:25	X	X	MS/MSD
NM-MW-15-W-222501	NM-MW-15	Water	01/25/2022	14:40	X	X	
NM-MW-10-W-222501	NM-MW-10	Water	01/25/2022	15:00	X	X	
NM-MW-9-W-222501	NM-MW-9	Water	01/25/2022	15:25	X	X	
NM-MW-9-WD-222501	NM-MW-9	Water	01/25/2022	15:25	X	X	Field duplicate of NM-MW-9

Table 1

Sample Collection and Analysis Summary
Groundwater Monitoring Well Sampling
Scout EP/Dollarhide
Andrews County, Texas
January 2022

					Analysis/Parameters		
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**Chloride**	**TDS**	**Comments**
NM-MW-14-W-222501	NM-MW-14	Water	01/25/2022	15:40	X	X	
NM-MW-12-W-222701	NM-MW-12	Water	01/27/2022	10:50	X	X	MS/MSD
NM-MW-17-W-222701	NM-MW-17	Water	01/27/2022	11:30	X	X	
Wilson Ranch Well-W-222701	WILSON RANCH WW	Water	01/27/2022	11:50	X	X	
NM-MW-20-W-222701	NM-MW-20	Water	01/27/2022	11:55	X	X	
NM-MW-21-W-222701	NM-MW-21	Water	01/27/2022	12:10	X	X	
Smith Residence-W-222701	SMITH RESIDENCE	Water	01/27/2022	13:00	X	X	MS/MSD
58-B-3-MW-W-222701	58-B-3	Water	01/27/2022	13:10	X	X	DUP
MW-34-W-222701	MW-34	Water	01/27/2022	13:30	X	X	
MW-33-W-222701	MW-33	Water	01/27/2022	13:50	X	X	
MW-32-W-222701	MW-32	Water	01/27/2022	14:10	X	X	
MW-29-W-222701	MW-29	Water	01/27/2022	14:45	X	X	
MW-29-WD-222701	MW-29	Water	01/27/2022	14:45	X	X	Field duplicate of MW-29
MW-28-W-222701	MW-28	Water	01/27/2022	15:00	X	X	
58-B-2-MW-W-222701	58-B-2	Water	01/27/2022	15:30	X	X	
58-B-1-MW-W-222701	58-B-1	Water	01/27/2022	15:45	X	X	

Table 1

Sample Collection and Analysis Summary
Groundwater Monitoring Well Sampling
Scout EP/Dollarhide
Andrews County, Texas
January 2022

					Analysis/Parameters		
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**Chloride**	**TDS**	**Comments**
MW-9-W-222701	MW-9	Water	01/27/2022	16:00	X	X	
MW-8-W-222701	MW-8	Water	01/27/2022	16:20	X	X	
MW-27-W-222801	MW-27	Water	01/28/2022	10:00	X	X	
MW-20-W-222801	MW-20	Water	01/28/2022	10:15	X	X	MS/MSD
45-F-1-MW-W-222801	45-F-1	Water	01/28/2022	10:35	X	X	DUP
45-FF-MW-W-222801	45-FF	Water	01/28/2022	10:45	X	X	
45-E-2-MW-W-222801	45-E-2	Water	01/28/2022	11:00	X	X	
45-E-1-MW-W-222801	45-E-1	Water	01/28/2022	11:10	X	X	
44-I-1-MW-W-222801	44-I-1	Water	01/28/2022	11:25	X	X	
44-J-1-MW-W-222801	44-J-1	Water	01/28/2022	11:35	X	X	
44-J-5-MW-W-222801	44-J-5	Water	01/28/2022	11:45	X	X	
44-J-4-MW-W-222801	44-J-4	Water	01/28/2022	11:55	X	X	
44-J-3-MW-W-222801	44-J-3	Water	01/28/2022	12:05	X	X	
44-J-2-MW-W-222801	44-J-2	Water	01/28/2022	12:15	X	X	MS/MSD
MW-19-W-222801	MW-19	Water	01/28/2022	12:45	X	X	DUP
MW-18-W-222801	MW-18	Water	01/28/2022	13:00	X	X	

Table 1

Sample Collection and Analysis Summary
Groundwater Monitoring Well Sampling
Scout EP/Dollarhide
Andrews County, Texas
January 2022

					Analysis/Parameters		
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**Chloride**	**TDS**	**Comments**
MW-12-W-222801	MW-12	Water	01/28/2022	13:10	X	X	
MW-31-W-222801	MW-31	Water	01/28/2022	13:20	X	X	
MW-10-W-222801	MW-10	Water	01/28/2022	13:40	X	X	
MW-10-WD-222801	MW-10	Water	01/28/2022	13:40	X	X	Field duplicate of MW-10
MW-26-W-222801	MW-26	Water	01/28/2022	14:00	X	X	
MW-24-W-222801	MW-24	Water	01/28/2022	14:10	X	X	
MW-25-W-223101	MW-25	Water	01/31/2022	10:30	X	X	
MW-25-WD-223101	MW-25	Water	01/31/2022	10:30	X	X	Field duplicate of MW-25
MW-11-W-223101	MW-11	Water	01/31/2022	10:50	X	X	DUP
MW-6-W-223101	MW-6	Water	01/31/2022	11:15	X	X	
MW-5-W-223101	MW-5	Water	01/31/2022	11:30	X	X	
MW-3-W-223101	MW-3	Water	01/31/2022	11:40	X	X	
TRAC-4-W-223101	Trac4	Water	01/31/2022	12:00	X	X	
MW-4-W-223101	MW-4	Water	01/31/2022	12:10	X	X	MS/MSD
MW-14-W-223101	MW-14	Water	01/31/2022	12:30	X	X	
MW-13-W-223101	MW-13	Water	01/31/2022	12:40	X	X	

Table 1

Sample Collection and Analysis Summary
Groundwater Monitoring Well Sampling
Scout EP/Dollarhide
Andrews County, Texas
January 2022

					Analysis/Parameters		
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**Chloride**	**TDS**	**Comments**
MW-30-W-223101	MW-30	Water	01/31/2022	13:00	X	X	
Livermore-W-223101	Livermore	Water	01/31/2022	13:10	X	X	MS/MSD; DUP
MW-23-W-223101	MW-23	Water	01/31/2022	13:30	X	X	
MW-22-W-223101	MW-22	Water	01/31/2022	13:40	X	X	
MW-17-W-223101	MW-17	Water	01/31/2022	14:05	X	X	
MW-21-W-223101	MW-21	Water	01/31/2022	14:20	X	X	
MW-16-W-223101	MW-16	Water	01/31/2022	14:30	X	X	
MW-15-W-223101	MW-15	Water	01/31/2022	14:50	X	X	
43-K-1-MW-W-223101	43-K-1	Water	01/31/2022	15:30	X	X	
45-E-3-MW-W-223101	45-E-3	Water	01/31/2022	15:40	X	X	

Notes:

TDS	- Total Dissolved Solids
MS/MSD	- Matrix Spike/Matrix Spike Duplicate
DUP	- Laboratory Duplicate

Table 2

Analytical Results Summary
Groundwater Monitoring Well Sampling
Scout EP/Dollarhide
Andrews County, Texas
January 2022

Location ID:		43-K-1	44-I-1	44-J-1	44-J-2	44-J-3	44-J-4	44-J-5	45-E-1
Sample Name:		43-K-1-MW-W-223101	44-I-1-MW-W-222801	44-J-1-MW-W-222801	44-J-2-MW-W-222801	44-J-3-MW-W-222801	44-J-4-MW-W-222801	44-J-5-MW-W-222801	45-E-1-MW-W-222801
Sample Date:		01/31/2022	01/28/2022	01/28/2022	01/28/2022	01/28/2022	01/28/2022	01/28/2022	01/28/2022
Parameters	**Unit**								
General Chemistry									
Chloride	mg/L	5400	4260	4940	5470	5810	5170	4980	3580
TDS	mg/L	9950	7150	8460	8630	9650	8250	8100	8540

Table 2

Analytical Results Summary
Groundwater Monitoring Well Sampling
Scout EP/Dollarhide
Andrews County, Texas
January 2022

Location ID:		45-E-2	45-E-3	45-F-1	45-FF	58-B-1	58-B-2	58-B-3	Livermore
Sample Name:		45-E-2-MW-W-222801	45-E-3-MW-W-223101	45-F-1-MW-W-222801	45-FF-MW-W-222801	58-B-1-MW-W-222701	58-B-2-MW-W-222701	58-B-3-MW-W-222701	Livermore-W-223101
Sample Date:		01/28/2022	01/31/2022	01/28/2022	01/28/2022	01/27/2022	01/27/2022	01/27/2022	01/31/2022
Parameters	**Unit**								
General Chemistry									
Chloride	mg/L	1620	4680	974	3680	6740	3830	1870	2190
TDS	mg/L	3140	8120	1960	6710	10400	6450	3360	4170

Table 2

Analytical Results Summary
Groundwater Monitoring Well Sampling
Scout EP/Dollarhide
Andrews County, Texas
January 2022

Location ID:		MW-3	MW-4	MW-5	MW-6	MW-8	MW-9	MW-10	MW-10	MW-11	MW-12
Sample Name:		MW-3-W-223101	MW-4-W-223101	MW-5-W-223101	MW-6-W-223101	MW-8-W-222701	MW-9-W-222701	MW-10-W-222801	MW-10-WD-222801	MW-11-W-223101	MW-12-W-222801
Sample Date:		01/31/2022	01/31/2022	01/31/2022	01/31/2022	01/27/2022	01/27/2022	01/28/2022	01/28/2022	01/31/2022	01/28/2022
									Duplicate		
Parameters	**Unit**										
General Chemistry											
Chloride	mg/L	630	306	232	369	1010	2830	5320	5310	6240	12200
TDS	mg/L	1360	933	932	1500	2930	4880	8460	8560	12600	22500

Table 2

Analytical Results Summary
Groundwater Monitoring Well Sampling
Scout EP/Dollarhide
Andrews County, Texas
January 2022

Location ID:		MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21
Sample Name:		MW-13-W-223101	MW-14-W-223101	MW-15-W-223101	MW-16-W-223101	MW-17-W-223101	MW-18-W-222801	MW-19-W-222801	MW-20-W-222801	MW-21-W-223101
Sample Date:		01/31/2022	01/31/2022	01/31/2022	01/31/2022	01/31/2022	01/28/2022	01/28/2022	01/28/2022	01/31/2022
Parameters	**Unit**									
General Chemistry										
Chloride	mg/L	2070	1740	998	582	5920	22600	8620	1170	6910
TDS	mg/L	4190	3110	1890	1550	13000	36200	13800	2670	11700

Table 2

Analytical Results Summary
Groundwater Monitoring Well Sampling
Scout EP/Dollarhide
Andrews County, Texas
January 2022

Location ID:		MW-22	MW-23	MW-24	MW-25	MW-25	MW-26	MW-27	MW-28	MW-29
Sample Name:		MW-22-W-223101	MW-23-W-223101	MW-24-W-222801	MW-25-W-223101	MW-25-WD-223101	MW-26-W-222801	MW-27-W-222801	MW-28-W-222701	MW-29-W-222701
Sample Date:		01/31/2022	01/31/2022	01/28/2022	01/31/2022	01/31/2022	01/28/2022	01/28/2022	01/27/2022	01/27/2022
						Duplicate				
Parameters	**Unit**									
General Chemistry										
Chloride	mg/L	11600	7510	4760	23500	24000	1510	2360	4190	572
TDS	mg/L	20700	12500	11800	39500	39300	4540	4260	7390	1290

Table 2

Analytical Results Summary
Groundwater Monitoring Well Sampling
Scout EP/Dollarhide
Andrews County, Texas
January 2022

Location ID:		MW-29	MW-30	MW-31	MW-32	MW-33	MW-34	NM-MW-1	NM-MW-2	NM-MW-3
Sample Name:		MW-29-WD-222701	MW-30-W-223101	MW-31-W-222801	MW-32-W-222701	MW-33-W-222701	MW-34-W-222701	NM-MW-1-W-222501	NM-MW-2-W-222501	NM-MW-3-W-222501
Sample Date:		01/27/2022	01/31/2022	01/28/2022	01/27/2022	01/27/2022	01/27/2022	01/25/2022	01/25/2022	01/25/2022
		Duplicate								
Parameters	**Unit**									
General Chemistry										
Chloride	mg/L	576	2220	10200	389	216	71.3	279	799	365
TDS	mg/L	1350	4070	16400	1200	1220	661	1520	1450	792

Table 2

Analytical Results Summary
Groundwater Monitoring Well Sampling
Scout EP/Dollarhide
Andrews County, Texas
January 2022

Location ID:		NM-MW-4	NM-MW-5	NM-MW-6	NM-MW-7	NM-MW-8	NM-MW-9	NM-MW-9	NM-MW-10
Sample Name:		NM-MW-4-W-222501	NM-MW-5-W-222501	NM-MW-6-W-222501	NM-MW-7-W-222501	NM-MW-8-W-222501	NM-MW-9-W-222501	NM-MW-9-WD-222501	NM-MW-10-W-222501
Sample Date:		01/25/2022	01/25/2022	01/25/2022	01/25/2022	01/25/2022	01/25/2022	01/25/2022	01/25/2022
								Duplicate	
Parameters	**Unit**								
General Chemistry									
Chloride	mg/L	44.0	144	154	2340	7490	256	253	335
TDS	mg/L	432	1230	847	4680	11500	786	787	1630

Table 2

Analytical Results Summary
Groundwater Monitoring Well Sampling
Scout EP/Dollarhide
Andrews County, Texas
January 2022

Location ID:		NM-MW-11	NM-MW-12	NM-MW-13	NM-MW-13	NM-MW-14	NM-MW-15	NM-MW-17
Sample Name:		NM-MW-11-W-222501	NM-MW-12-W-222701	NM-MW-13-W-222501	NM-MW-13-WD-222501	NM-MW-14-W-222501	NM-MW-15-W-222501	NM-MW-17-W-222701
Sample Date:		01/25/2022	01/27/2022	01/25/2022	01/25/2022	01/25/2022	01/25/2022	01/27/2022
					Duplicate			
Parameters	**Unit**							
General Chemistry								
Chloride	mg/L	159	417	197	198	23.2	51.2	212
TDS	mg/L	2010	1190	1210	1130	474	517	1140

Table 2

Analytical Results Summary
Groundwater Monitoring Well Sampling
Scout EP/Dollarhide
Andrews County, Texas
January 2022

Location ID:		NM-MW-20	NM-MW-21	Ranch Windmill	SMITH RESIDENCE	Trac4	WILSON RANCH WW
Sample Name:		NM-MW-20-W-222701	NM-MW-21-W-222701	RRR-RanchWindmill-W-222501	Smith Residence-W-222701	TRAC-4-W-223101	Wilson Ranch Well-W-222701
Sample Date:		01/27/2022	01/27/2022	01/25/2022	01/27/2022	01/31/2022	01/27/2022
Parameters	**Unit**						
General Chemistry							
Chloride	mg/L	20.8	26.9	2350	868	311	959
TDS	mg/L	402	536	4080	1830	1700	1780

Notes:

TDS - Total Dissolved Solids

Table 3

Analytical Methods
Groundwater Monitoring Well Sampling
Scout EP/Dollarhide
Andrews County, Texas
January 2022

Parameter	Method	Matrix	Holding Time Collection to Analysis (Days)
Chloride	MCAWW 300.0	Water	28
TDS	SM 2540C	Water	7

Notes:

TDS - Total Dissolved Solids

Method References:

MCAWW - "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions

SM - "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992, with subsequent revisions

GHD Digital

Technical Memorandum

28 July 2022

To	Phillip Moore		
Copy to	Nick Casten		
From	Chris G. Knight/eew/1-NF	**Tel**	512 506 8803
Subject	Analytical Results and Reduced Validation Groundwater Monitoring Well Sampling Scout EP/Dollarhide Andrews County, Texas June 2022	**Project no.**	12586708

1. Introduction

The following document details a reduced validation of analytical results for groundwater samples collected at the Scout EP/Dollarhide site during June 2022. Samples were submitted to Eurofins Environment Testing America, located in Midland, Texas and reported in the following data packages: 880-16448-1, 880-16449-1, and 880-16450-1. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody form, finished report forms, method blank data, duplicate data, recovery data from laboratory control sample/laboratory control duplicate samples (LCS/LCSD), matrix spikes/matrix spike duplicates (MS/MSD), laboratory duplicates, and field QA/QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

1. " National Functional Guidelines for Inorganic Superfund Methods Data Review", USEPA 542R20006, November 2020.

Item 1 will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. The sample chain of custody document and the analytical reports were used to determine sample holding times. All samples were analyzed within the required holding times.

All samples were delivered on ice and stored by the laboratory at the required temperature (0-6°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

4. Laboratory Control Sample Analyses

LCS/Laboratory Control Sample Duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS/LCSD contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries and RPDs were within the control limits, demonstrating acceptable analytical accuracy and precision.

5. Matrix Spike Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/matrix spike duplicate (MSD) samples. The RPD between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1 for chloride analysis. The recovery ranges established by the laboratory are adopted as the acceptance criteria for the project.

The MS/MSD samples were spiked with chloride. All percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

The laboratory also performed additional MS/MSD analyses on non-site samples. These cannot be used to assess accuracy and precision for the site samples.

6. Duplicate Sample Analyses

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory as specified in Table 1 for total dissolved solids (TDS). The duplicate results were evaluated per the "Guidelines".

All duplicate analyses performed were acceptable, demonstrating acceptable analytical precision.

The laboratory also performed additional duplicate analyses on non-site samples. These cannot be used to assess precision for the site samples.

7. Field QA/QC Samples

The field QA/QC consisted of 1 field duplicate sample set.

To assess the analytical and sampling protocol precision, 1 field duplicate sample set was collected and submitted to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criterion is one times the RL value.

Field duplicate summary data are presented in Table 2. All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision.

8. Analyte Reporting

The laboratory reported detected results down to the laboratory's RL for each analyte.

9. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable without qualification.

Regards

Chris G. Knight

Data Management Team – Data Validator

Table 1

Sample Collection and Analysis Summary
Groundwater Monitoring Well Sampling
Scout EP/Dollarhide
Andrews County, Texas
June 2022

					Analysis/Parameters		
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**Chloride**	**TDS**	**Comments**
NM-MW-6-W-222806	NM-MW-6	Water	06/28/2022	10:40	X	X	
NM-MW-5-W-222806	NM-MW-5	Water	06/28/2022	11:05	X	X	
NM-MW-1-W-222806	NM-MW-1	Water	06/28/2022	11:40	X	X	
NM-MW-15-W-222806	NM-MW-15	Water	06/28/2022	12:05	X	X	
NM-MW-10-W-222806	NM-MW-10	Water	06/28/2022	12:45	X	X	
NM-MW-17-W-222806	NM-MW-17	Water	06/28/2022	13:30	X	X	
NM-MW-20-W-222806	NM-MW-20	Water	06/28/2022	14:00	X	X	
NM-MW-9-W-222906	NM-MW-9	Water	06/29/2022	09:40	X	X	
NM-MW-9-WD-222906	NM-MW-9	Water	06/29/2022	09:40	X	X	Field duplicate of NM-MW-9
MW-29-W-222906	MW-29	Water	06/29/2022	10:10	X	X	
MW-34-W-222906	MW-34	Water	06/29/2022	10:40	X	X	MS/MSD; DUP
MW-31-W-222906	MW-31	Water	06/29/2022	11:15	X	X	MS/MSD; DUP
MW-25-W-222906	MW-25	Water	06/29/2022	11:40	X	X	
MW-18-W-222906	MW-18	Water	06/29/2022	12:00	X	X	
MW-19-W-222906	MW-19	Water	06/29/2022	12:30	X	X	

Notes:

TDS	- Total Dissolved Solids
MS/MSD	- Matrix Spike/Matrix Spike Duplicate
DUP	- Laboratory Duplicate

Table 2

Analytical Results Summary
Groundwater Monitoring Well Sampling
Scout EP/Dollarhide
Andrews County, Texas
June 2022

Location ID:		MW-18	MW-19	MW-25	MW-29	MW-31	MW-34	NM-MW-1
Sample Name:		MW-18-W-222906	MW-19-W-222906	MW-25-W-222906	MW-29-W-222906	MW-31-W-222906	MW-34-W-222906	NM-MW-1-W-222806
Sample Date:		06/29/2022	06/29/2022	06/29/2022	06/29/2022	06/29/2022	06/29/2022	06/28/2022
Parameters	**Unit**							
General Chemistry								
Chloride	mg/L	9910	11300	23900	619	12300	70.9	259
TDS	mg/L	36100	15800	38500	1400	18800	625	1480

Table 2

Analytical Results Summary
Groundwater Monitoring Well Sampling
Scout EP/Dollarhide
Andrews County, Texas
June 2022

Location ID:		NM-MW-5	NM-MW-6	NM-MW-9	NM-MW-9	NM-MW-10	NM-MW-15	NM-MW-17	NM-MW-20
Sample Name:		NM-MW-5-W-222806	NM-MW-6-W-222806	NM-MW-9-W-222906	NM-MW-9-WD-222906	NM-MW-10-W-222806	NM-MW-15-W-222806	NM-MW-17-W-222806	NM-MW-20-W-222806
Sample Date:		06/28/2022	06/28/2022	06/29/2022	06/29/2022	06/28/2022	06/28/2022	06/28/2022	06/28/2022
					Duplicate				
Parameters	**Unit**								
General Chemistry									
Chloride	mg/L	143	159	249	242	326	54.9	211	21.3
TDS	mg/L	1320	843	834	832	1630	509	1010	395

Notes:

TDS - Total Dissolved Solids

Table 3

Analytical Methods
Groundwater Monitoring Well Sampling
Scout EP/Dollarhide
Andrews County, Texas
June 2022

Parameter	Method	Matrix	Holding Time Collection to Analysis (Days)
Chloride	MCAWW 300.0	Water	28
TDS	SM 2540C	Water	7

Notes:

TDS - Total Dissolved Solids

Method References:

MCAWW - "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions

SM - "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992, with subsequent revisions

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

CONDITIONS

Action 133587

CONDITIONS

Operator:	OGRID:
SCOUT ENERGY MANAGEMENT LLC 13800 Montfort Road Dallas, TX 75240	330949
	Action Number: 133587
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of Semi-Annual Groundwater Monitoring Report (January to June 2022) Report: Content satisfactory 1. Continue conducting quarterly monitoring of the limited well network (composed of perimeter and interior source wells). 2. Continue collecting all viable wells in the groundwater monitoring system bi-annually. 3. Submit next bi-annual groundwater monitoring summary report no later than January 31, 2023.	10/25/2022