Received by OCD: 5/30/2023 2:48:19 PM

REVIEWED
By Nelson Velez at 1:32 pm, May 22, 2023

Review of 2022 Annual Groundwater Report: **Content satisfactory**

1. Proceed with Recommendations as stated in this report.
2. Submit next annual groundwater monitoring report no later than April 1, 2024.

Stantec

2022 ANNUAL GROUNDWATER MONITORING REPORT

Lordsburg Compressor Station
Hidalgo County, New Mexico

NMOCD Incident No.
nAPP2217233972

Prepared for:

El Paso Natural Gas Company, LLC
1001 Louisiana Street
Houston, Texas 77002

Prepared by:

Stantec Consulting Services, Inc.
11311 Aurora Avenue
Des Moines, IA 50322

March 30, 2023

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Table of Contents

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

Received by OCD: 3/30/2023 2:48:19 PM

Abbreviations

Bgs	below ground surface
EPNG	El Paso Natural Gas Company, LLC
Gpm	Gallons per minute
mg/L	milligrams per liter
NFA	No Further Action
NMOCD	New Mexico Oil Conservation Division
NMWQCC	New Mexico Water Quality Control Commission
USEPA	United States Environmental Protection Agency

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1.0 INTRODUCTION

This 2022 Annual Groundwater Monitoring Report has been prepared on behalf El Paso Natural Gas Company (EPNG), a subsidiary of Kinder Morgan, Inc., by Stantec Consulting Services Inc. (Stantec). This report summarizes quarterly groundwater sampling activities completed at the Lordsburg Compressor Station, located in Hidalgo County, New Mexico (Site; Figure 1), in 2022. On behalf of EPNG, first and second calendar quarter sampling activities were completed by AECOM Technical Services, Inc. (AECOM). Third and fourth calendar quarter sampling activities were completed on behalf of EPNG by Stantec. During each sampling event, groundwater samples were collected from the Site water supply well EPWW1 (New Mexico well record #69807) and analyzed for dissolved chromium.

2.0 Site BACKGROUND

2.1 Site History

The Lordsburg Compressor Station began operation in 1952. Water supply wells EPWW1 and EPWW2 were constructed in 1951. Chromate (a corrosion inhibitor) was reportedly used at the Site until the mid-1970's, and chromate-bearing solutions were discharged to unlined ponds on the east side of the Site. The ponds were closed in 1993. EPNG conducted a screening investigation for chromium in soil and groundwater at the Site in 2006 (Figure 2). Production well EPWW1 was subsequently sampled; production well EPWW2 had collapsed and was not available for sampling (LFR, Inc., 2007). In 2009 EPNG sampled groundwater from six private wells west of the site, and one stock well located approximately one mile east-southeast of the site (URS, 2010). Based on the sampling results, a report of a release was submitted to the NMOCD on January 15, 2010 (EPNG, 2010).

Following the 2009 investigation, EPNG began annual groundwater sampling of well EPWW1, and the off-site stock well and a stock tank located on private property approximately one mile east-southeast from the Site. The stock well was last sampled in 2013, as the windmill that powered the well pump was found to be inoperable after that time. During the period from 2009 to 2013, concentrations of dissolved chromium ranged from less than the laboratory reporting limit of 0.005 milligrams per liter (mg/L) to 0.062 mg/L in samples collected from the stock well. Quarterly groundwater sampling of EPWW1 was initiated in 2019 (AECOM, 2022). Historical dissolved chromium results of groundwater sampled from production well EPWW1 and the stock well are summarized on Table 1.

2.2 Lordsburg Compressor Station Wells

The Lordsburg Compressor Station water supply well EPWW1 serves as the non-potable water supply well for the compressor station and is equipped with an electric submersible pump that pumps at a rate of approximately 50 gallons per minute. The intake depth of the submersible pump is not known. Pumped water is discharged to the station water storage tank located west of EPWW1 and is used for site operations. Records indicate

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the well screen interval for EPWW1 is from 195 to 440 feet below ground surface and starts approximately 100 feet below the estimated groundwater level. Production well EPWW2 is not in use.

Historical logs for EPWW1 and EPWW2 indicate water-bearing units, consisting of sand and gravel, were encountered beginning at depths of 220 feet and 200 feet below ground surface. Overlying soils consist of clay, sand and gravel. Initial water levels in EPWW1 and EPWW2 from unknown dates were noted to be 115 and 82 feet bgs, respectively.

3.0 SAMPLING ACTIVITIES

3.1 FIELD ACTIVITIES

First and second calendar quarter 2022 sampling activities were completed by AECOM, and information regarding pre-sampling notifications is not available. Stantec provided field work notifications of third and fourth calendar quarter sampling events via e-mail to the NMOCD (September 26, and December 2, 2022, respectively). Copies of the NMOCD notifications are provided as Appendix A.

Quarterly groundwater sampling activities were performed on March 24, 2022, June 7, 2022, September 27, and December 13, 2022. AECOM's purging methods for the first and second calendar quarter events consisted of purging EPWW-1 of at least three well volumes (approximately 6,000 gallons), and then monitoring parameters every three to five minutes to stability, prior to sampling.

Beginning with the third calendar quarter sampling event, Stantec inspected EPWW1 and located a 1.5-inch diameter access port for gauging. Stantec subsequently gauged EPWW1 with an electronic water level meter prior to purging in December 2022. Stantec completed stabilization monitoring every three to five minutes upon initiation of purging EPWW-1, pursuant to United States Environmental Protection Agency (USEPA) protocols. Purged water was pumped into the storage tank on-site for facility use. Field parameters of temperature, specific conductance, pH, and oxidation reduction potential were monitored via calibrated flow cell during pumping until stabilization was observed over three readings. Upon stabilization, a groundwater sample was collected after passing the sample through a 0.45-micron filter.

Groundwater samples were placed into laboratory-supplied sample containers, packed on ice in an insulated cooler, and transported under standard chain-of-custody protocols to Eurofins Environment Testing Southwest, LLC, in Phoenix, Arizona (Eurofins). Beginning with the 3rd quarter 2022 sampling event, a field duplicate sample was also collected with the primary sample from EPWW1. The primary and field duplicate samples were analyzed for dissolved chromium using USEPA Method 200.8. Sample results are summarized in Table 1. The laboratory reports are attached as Appendix B. With the exception of the March 2022 sampling event, groundwater sample sheets or notes completed during sampling activities are included as Appendix C. Notes from the March 2022 sampling event were not provided by AECOM.

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3.2 QUALITY ASSURANCE/QUALITY CONTROL RESULTS

Stantec reviewed, verified, and validated the 2022 analytical data in accordance with the QAPP. Data validation activities and results are documented in the Quality Control Summary Report provided in Appendix D. Based on a review of the data, no data was excluded.

4.0 RESULTS AND DISCUSSION

4.1 Gauging Data

During the December 13, 2022, sampling event, the depth to groundwater from the top of the access pipe was measured to be 92.16 feet. The water level data collected on December 13, 2022, and during previous sampling events, is summarized on Table 1.

4.2 Groundwater Sample Results

New Mexico has established a standard for maximum allowable concentration of dissolved chromium in groundwater of 0.05 mg/L (New Mexico Administrative Code 20.6.2.3103). It has been reported a site-specific action level for dissolved chromium of 0.055 mg/L has been established for the Lordsburg Station by New Mexico regulators, although documentation of the site-specific standard is not available.

The quarterly groundwater samples collected from EPWW-1 in 2022 had dissolved chromium concentrations ranging from 0.040 mg/L to 0.048 mg/L in the primary sample and 0.039 mg/L to 0.040 mg/L in the duplicate sample. The NMWQCC standard of 0.050 mg/L for dissolved chromium in groundwater was not exceeded in any groundwater samples collected from well EPWW1 during 2022.

5.0 RECOMMENDATIONS

Pursuant to New Mexico Oil Conservation Division requirements, sites with groundwater impacts are required to have eight calendar quarters of groundwater sample results below applicable NMWQCC standards to be considered for regulatory closure. Continued quarterly sampling and groundwater monitoring of EPWW1 is planned for 2023. Primary and duplicate samples from EPWW1 will be submitted for analysis of dissolved chromium using USEPA Method 200.8.

The activities conducted in 2023 and analytical results will be summarized in a 2023 Annual Report, to be submitted by July 1, 2024.

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REFERENCES

AECOM Technical Services Inc., 2021. *2021 Quarterly Groundwater Sampling Results, Lordsburg Compressor Station, Lordsburg, New Mexico*. Prepared for El Paso Natural Gas Company (EPNG). February 2.

El Paso Natural Gas Company, 2010. *Release Notification For El Paso Natural Gas (EPNG) Lordsburg Compressor Station, Lordsburg, New Mexico*. Submitted to Mr. Glen von Gotten, New Mexico Oil Conservation Division. January 15.

LFR, Inc., 2007. *Initial Site Screening Report, Lordsburg Compressor Station, Township-23-S, Range-17-W, Southeast 4 Section 8.* Prepared for El Paso Pipeline Group Attorney. February 23.

URS Corporation, 2010. *12/2009 and 2/2010 Sampling Events, Lordsburg Compressor Station, Lordsburg, New Mexico.* Prepared for El Paso Natural Gas Company. March 16.

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TABLES

Table 1.
Summary of Dissolved Chromium Results
for Groundwater Samples
Lordsburg Compressor Station
El Paso Natural Gas Company

Groundwater Samples					Primary Sample	Field Duplicate
Description	Well ID	Sample ID	Lab ID	Sample Date	Dissolved[1] Chromium mg/L	
Windmill	70331	L6543-STA-02-70331-120209	09120087-01	12/2/2009	**0.0549**	
Windmill	70331	L6543-STA-02-70331-021010	10020401-02	2/10/2010	0.0202	0.0205
Windmill	70331	04114NM-04-70331-030211	11030077-02	3/2/2011	0.006	0.0078
Windmill	70331	04114NM-05-70331-030112	TC-2033-2	3/1/2012	**0.0612**	**0.0605**
Windmill	70331	04114NM-06-70331-031313	TC26940-2	3/13/2013	**0.062**	**0.0612**
Windmill	70331Pond	L6543-STA-02-70331-POND-021010	10020401-04	2/10/2010	0.005	
EPNG Well	EPWW1	L6543-STA-02-EPWW1-120309	09120150-03	12/3/2009	0.0500	0.0489
EPNG Well	EPWW1	L6543-STA-02-EPWW1-021010	10020401-01	2/10/2010	0.0459	
EPNG Well	EPWW1	04114NM-04-EPWW1-030211	11030077-01	3/2/2011	0.0503	
EPNG Well	EPWW1	04114NM-05-EPWW1-030112	TC-2033-1	3/1/2012	0.0481	
EPNG Well	EPWW1	04114NM-06-EPWW1-031313	TC26940-1	3/13/2013	**0.0554**	
EPNG Well	EPWW1	04114NM-07-EPWW1-04 14	TC-45930-1	4/1/2014	0.0545	0.0548
EPNG Well	EPWW1	04114NM-08-EPWW1-040915	TC-65279-1	4/9/2015	0.0525	0.0521
EPNG Well	EPWW1	EPWW-1	550-64294-2	6/2/2016	0.050	0.051
EPNG Well	EPWW1	EPWW-1	550-84722-2	6/20/2017	0.050	0.049
EPNG Well	EPWW1	EPWW-1	550-101393-5	4/17/2018	0.048	0.049
EPNG Well	EPWW1	EPWW-1-022119	550-118406-1	2/21/2019	0.053	
EPNG Well	EPWW1	EPWW-1-05-14-2019	550-122908-1	5/14/2019	0.052	
EPNG Well	EPWW1	EPWW-1-081319	550-127927-1	8/13/2019	0.053	
EPNG Well	EPWW1	EPWW-1-110719	550-133016-1	11/7/2019	0.052	
EPNG Well	EPWW1	EPWW-1-021920	550-138265-1	2/19/2020	0.05	
EPNG Well	EPWW1	EPWW-1-06192020	550-143737-1	6/19/2020	0.045	
EPNG Well	EPWW1	EPWW-1-08192020	550-147678-1	8/19/2020	**0.056**	
EPNG Well	EPWW1	EPWW-1	550-154995-1	12/11/2020	0.053	
EPNG Well	EPWW1	EPWW1-03-23-21	550-160580-1	3/23/2021	0.055	
EPNG Well	EPWW1	EPWW1-060421	550-165277-1	6/4/2021	**0.056**	
EPNG Well	EPWW1	EPWW1-08-25-21	550-169691-1	8/25/2021	0.054	
EPNG Well	EPWW1	EPWW1	550-175978-1	12/15/2021	0.055	
EPNG Well	EPWW1	EPWW1	550-181650-1	3/24/2022	0.048	
EPNG Well	EPWW1	EPWW1-06-07-2022	550-185425-1	6/7/2022	0.045	
EPNG Well	EPWW1	WW#1	550-191112-1	9/27/2022	0.040	0.039
EPNG Well	EPWW1	WW#1	550-194904-1	12/13/2022	0.040	0.040

[1] Sample filtered using 0.045 micro filter

mg/L - milligrams per liter

BOLD = exceeds the site-specific action level of 0.055 mg/L dissolved chromium

FIGURES

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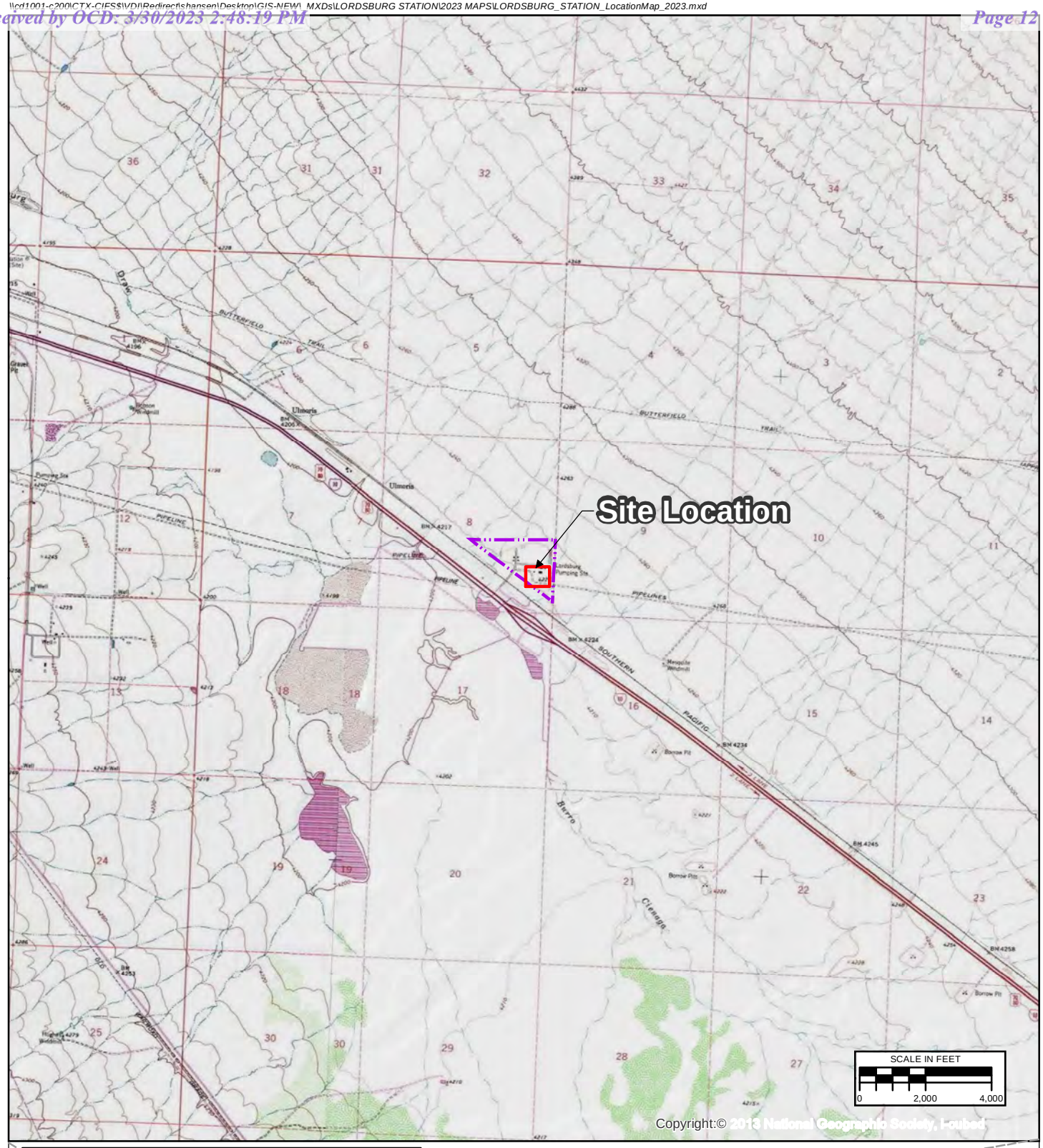

LEGEND:

SITE PROPERTY BOUNDARY
(As depicted on acrevalue.com)

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2023-02-21	SAH	SAH	SRV

TITLE: ***SITE LOCATION***

Stantec

PROJECT: ***LORDSBURG STATION***
LORDSBURG VALLEY BASIN
HIDALGO COUNTY, NEW MEXICO

FIGURE: **1**

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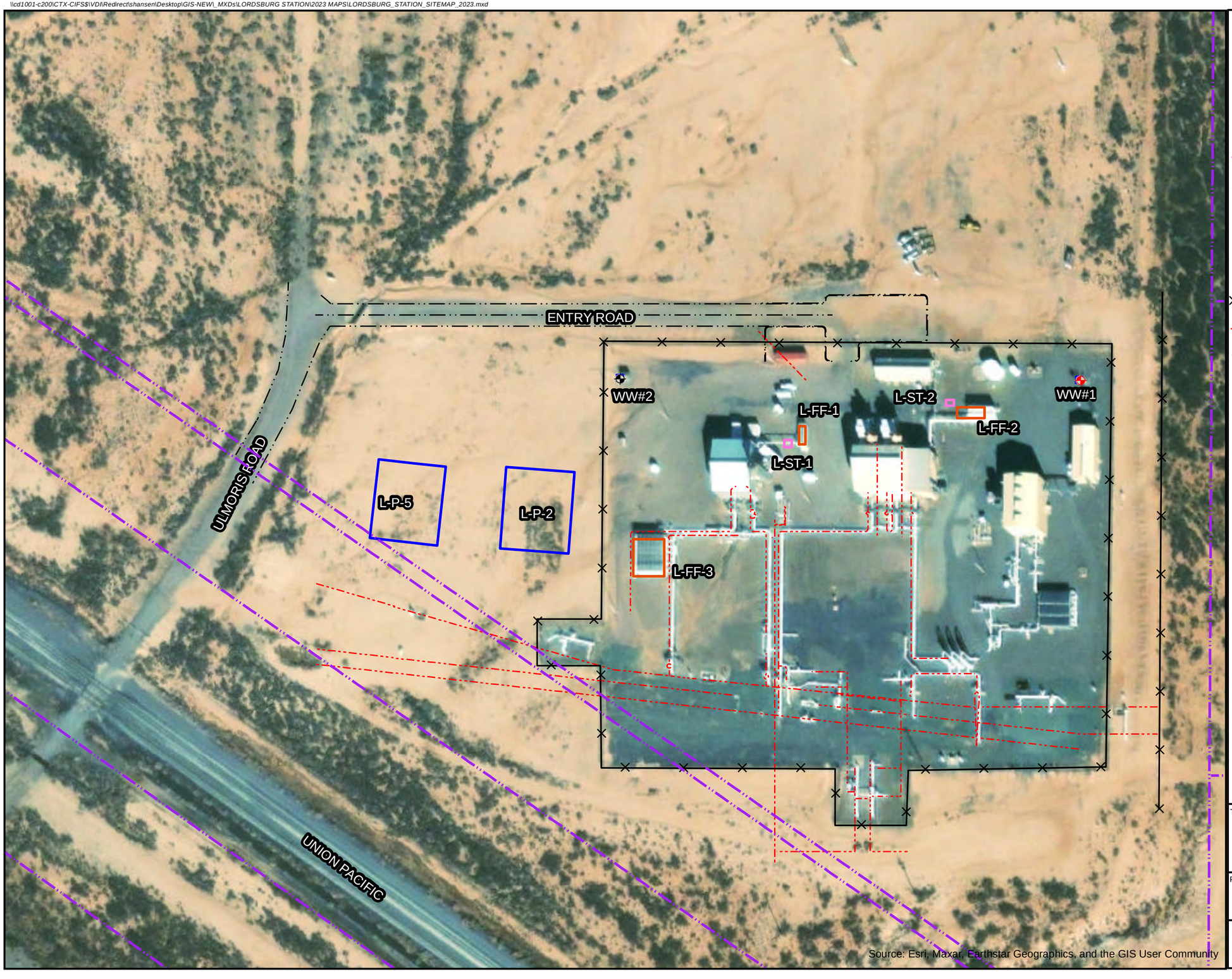
\\cd1001-c200\CTX-CIFS$\VDI\Redirect\shansen\Desktop\GIS-NEW_MXDs\LORDSBURG STATION\2023 MAPS\LORDSBURG_STATION_SITEMAP_2023.mxd



LEGEND:

- PRODUCTION WELL
- INOPERABLE/DAMAGED PRODUCTION WELL
- SURGE TANK (INVESTIGATED IN 2006)
- FIN-FAN (INVESTIGATED 2006)
- FORMER UNLINED POND (INVESTIGATED IN 2006)
- PROPERTY BOUNDARY (As depicted on acrevalue.com)
- FENCE
- LOCATION OF PIPELINE
- ENTRY ROAD

N

SCALE IN FEET

0 100 200

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
A	2023-02-21	SAH	SAH	SV

TITLE:

SITE PLAN

PROJECT:

LORDSBURG STATION
LORDSBURG VALLEY BASIN
HIDALGO COUNTY, NEW MEXICO

Stantec

Figure No.:

2

APPENDIX A

From: Billings, Bradford, EMNRD
To: Varsa, Steve
Subject: RE: [EXTERNAL] Lordsburg Station - notice of upcoming groundwater sampling (nAPP2217233972)
Date: Monday, September 26, 2022 2:05:38 PM

Hello.

Thank you for the notification. Please include this notification in allied report(s).

Bradford Billings
EMNRD/OCD

From: Varsa, Steve <steve.varsa@stantec.com>
Sent: Monday, September 26, 2022 12:11 PM
To: Billings, Bradford, EMNRD <Bradford.Billings@emnrd.nm.gov>
Cc: Stavinoha, Doug <Doug_Stavinoha@kindermorgan.com>
Subject: [EXTERNAL] Lordsburg Station - notice of upcoming groundwater sampling (nAPP2217233972)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Mr. Billings –

On behalf of El Paso Natural Gas Company (EPNG), Stantec is providing notice of groundwater sampling activities planned to occur on September 27, 2022. Please contact Doug Stavinoha, project manager with EPNG, at 713-420-5150, or me, if you need further information.

Thank you,
Steve

Stephen Varsa, P.G., R.G.
Principal Hydrogeologist
Stantec Environmental Services
11311 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

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From: Billings, Bradford, EMNRD
To: Varsa, Steve
Subject: RE: [EXTERNAL] Lordsburg Station - notice of upcoming groundwater sampling (nAPP2217233972)
Date: Friday, December 2, 2022 10:27:26 AM

Thank you for the notification. Please retain this communication and include in future report(s).

Bradford Billings
EMNRD/OCD

From: Varsa, Steve <steve.varsa@stantec.com>
Sent: Friday, December 2, 2022 9:14 AM
To: Billings, Bradford, EMNRD <Bradford.Billings@emnrd.nm.gov>
Cc: Stavinoha, Doug <Doug_Stavinoha@kindermorgan.com>
Subject: [EXTERNAL] Lordsburg Station - notice of upcoming groundwater sampling (nAPP2217233972)

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Mr. Billings –

On behalf of El Paso Natural Gas Company (EPNG), Stantec is providing notice of groundwater sampling activities planned to occur on December 13, 2022. Please contact Doug Stavinoha, project manager with EPNG, at 713-420-5150, or me, if you need further information.

Thank you,
Steve

Stephen Varsa, P.G., R.G.
Principal Hydrogeologist
Stantec Environmental Services
11311 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
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Attention: Ce courriel provient de l'extérieur de Stantec. Veuillez prendre des précautions supplémentaires.

Atención: Este correo electrónico proviene de fuera de Stantec. Por favor, tome precauciones adicionales.

APPENDIX B

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Phoenix
4625 East Cotton Center Boulevard
Suite #189
Phoenix, AZ 85040
Tel: (602)437-3340

Laboratory Job ID: 550-181650-1
Laboratory SDG: Lordsburg Compressor Station
Client Project/Site: Lordsburg

For:
AECOM Technical Services Inc.
333 East Wetmore
Suite 400
Tucson, Arizona 85705

Attn: Andrew Messer

Authorized for release by:
4/7/2022 11:42:10 AM

Carlene McCutcheon, Project Manager II
(602)659-7612
Carlene.McCutcheon@et.eurofinsus.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

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: AECOM Technical Services Inc.
Project/Site: Lordsburg

Laboratory Job ID: 550-181650-1
SDG: Lordsburg Compressor Station

Table of Contents

Definitions/Glossary

Client: AECOM Technical Services Inc. Job ID: 550-181650-1
Project/Site: Lordsburg SDG: Lordsburg Compressor Station

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: AECOM Technical Services Inc.
Project/Site: Lordsburg

Job ID: 550-181650-1
SDG: Lordsburg Compressor Station

Job ID: 550-181650-1

Laboratory: Eurofins Phoenix

Narrative

Job Narrative
550-181650-1

Comments
No additional comments.

Receipt
The sample was received on 3/31/2022 2:31 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 was 0.3º C.

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

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: Lordsburg

Job ID: 550-181650-1
SDG: Lordsburg Compressor Station

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
550-181650-1	EPWW-1	Water	03/24/22 13:15	03/31/22 14:31

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: Lordsburg

Job ID: 550-181650-1
SDG: Lordsburg Compressor Station

Client Sample ID: EPWW-1

Lab Sample ID: 550-181650-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	48		1.0		ug/L	1		200.8 LL	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Lordsburg

Job ID: 550-181650-1
SDG: Lordsburg Compressor Station

Client Sample ID: EPWW-1

Date Collected: 03/24/22 13:15
Date Received: 03/31/22 14:31

Lab Sample ID: 550-181650-1

Matrix: Water

Method: 200.8 LL - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	48		1.0		ug/L		04/01/22 06:45	04/04/22 19:25	1

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Lordsburg

Job ID: 550-181650-1
SDG: Lordsburg Compressor Station

Method: 200.8 LL - Metals (ICP/MS)

Lab Sample ID: MB 550-270508/1-A
Matrix: Water
Analysis Batch: 270723

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 270508

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		1.0		ug/L		04/01/22 06:45	04/04/22 18:47	1

Lab Sample ID: LCS 550-270508/2-A
Matrix: Water
Analysis Batch: 270723

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 270508

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium			100	100		ug/L		100	85 - 115		

Lab Sample ID: LCSD 550-270508/3-A
Matrix: Water
Analysis Batch: 270723

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 270508

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium			100	98.1		ug/L		98	85 - 115	2	20

Lab Sample ID: 550-181646-A-2-D MS
Matrix: Water
Analysis Batch: 270723

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 270508

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium	ND		100	99.5		ug/L		99	70 - 130		

Lab Sample ID: 550-181646-A-2-E MSD
Matrix: Water
Analysis Batch: 270723

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 270508

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium	ND		100	100		ug/L		100	70 - 130	1	20

QC Association Summary

Client: AECOM Technical Services Inc. Job ID: 550-181650-1
Project/Site: Lordsburg SDG: Lordsburg Compressor Station

Metals

Prep Batch: 270508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-181650-1	EPWW-1	Dissolved	Water	200.8	
MB 550-270508/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-270508/2-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-270508/3-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-181646-A-2-D MS	Matrix Spike	Dissolved	Water	200.8	
550-181646-A-2-E MSD	Matrix Spike Duplicate	Dissolved	Water	200.8	

Analysis Batch: 270723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-181650-1	EPWW-1	Dissolved	Water	200.8 LL	270508
MB 550-270508/1-A	Method Blank	Total/NA	Water	200.8 LL	270508
LCS 550-270508/2-A	Lab Control Sample	Total/NA	Water	200.8 LL	270508
LCSD 550-270508/3-A	Lab Control Sample Dup	Total/NA	Water	200.8 LL	270508
550-181646-A-2-D MS	Matrix Spike	Dissolved	Water	200.8 LL	270508
550-181646-A-2-E MSD	Matrix Spike Duplicate	Dissolved	Water	200.8 LL	270508

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: Lordsburg

Job ID: 550-181650-1
SDG: Lordsburg Compressor Station

Client Sample ID: EPWW-1
Date Collected: 03/24/22 13:15
Date Received: 03/31/22 14:31

Lab Sample ID: 550-181650-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			270508	04/01/22 06:45	SGO	TAL PHX
Dissolved	Analysis	200.8 LL		1	270723	04/04/22 19:25	ARE	TAL PHX

Laboratory References:

TAL PHX = Eurofins Phoenix, 4625 East Cotton Center Boulevard, Suite #189, Phoenix, AZ 85040, TEL (602)437-3340

Accreditation/Certification Summary

Client: AECOM Technical Services Inc. Job ID: 550-181650-1
Project/Site: Lordsburg SDG: Lordsburg Compressor Station

Laboratory: Eurofins Phoenix

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

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0728	06-10-22

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: Lordsburg

Job ID: 550-181650-1
SDG: Lordsburg Compressor Station

Method	Method Description	Protocol	Laboratory
200.8 LL	Metals (ICP/MS)	EPA	TAL PHX
200.8	Preparation, Total Metals	EPA	TAL PHX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL PHX = Eurofins Phoenix, 4625 East Cotton Center Boulevard, Suite #189, Phoenix, AZ 85040, TEL (602)437-3340

Page 30 of 87

Eurofins TestAmerica Phoenix
4625 East Cotton Ctr Blvd Suite 189
Phoenix, AZ 85040
Phone (602) 437-3340 Fax (602) 454-9303

Chain of Custody Record

181650

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM: Carlene McCutcheon	Carrier Tracking No(s):	COC No:
Client Contact: Andrew Messer	Phone:	E-Mail: Carlene.McCutcheon@testamericainc.com		Page: Page 1 of 1
Company: AECOM				Job #:

Address: 333 E. Wetmore Rd. Suite 400	Due Date Requested:
City: Tucson	TAT Requested (days):
State, Zip: AZ 85705	
Phone: 520-247-7210	PO #:
Email: andrew.messer@aecom.com	WO #:
Project Name: Lordsburg	Project #:
Site: Lordsburg Compressor Station	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 - Na2S2SO3
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)	200.8 Cr - dissolved	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
EPWW-1 -01	3/24/22	13:15	G	W	Y	Y	D	1	500 ml poly, w HNO3, field filtered 0.45u

550-181650 Chain of Custody

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

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Andrew Messer	3-31-2022 11:19	AECOM	Marie Bey	3/31/22 1119	TestAmerica
2	Marie Bey	3/31/22 231	TestAmerica			
3					3/31/22 1431	EETPHX

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: PC 0.3°C IVE

Received by OCD: 3/30/2023 2:48:19 PM

Released to Imaging: 5/22/2023 1:39:01 PM

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 550-181650-1
SDG Number: Lordsburg Compressor Station

Login Number: 181650
List Number: 1
Creator: Gravlin, Andrea

List Source: Eurofins Phoenix

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins Phoenix
4625 East Cotton Center Boulevard
Suite #189
Phoenix, AZ 85040
Tel: (602)437-3340

Laboratory Job ID: 550-185425-1
Laboratory SDG: Lordsburg Compressor Station
Client Project/Site: Lordsburg

For:
AECOM Technical Services Inc.
333 East Wetmore
Suite 400
Tucson, Arizona 85705

Attn: Andrew Messer

Authorized for release by:
6/14/2022 3:40:59 PM

Carlene McCutcheon, Project Manager II
(602)659-7612
Carlene.McCutcheon@et.eurofinsus.com

LINKS

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Have a Question? Ask The Expert

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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: AECOM Technical Services Inc.
Project/Site: Lordsburg

Laboratory Job ID: 550-185425-1
SDG: Lordsburg Compressor Station

Table of Contents

Definitions/Glossary

Client: AECOM Technical Services Inc. Job ID: 550-185425-1
Project/Site: Lordsburg SDG: Lordsburg Compressor Station

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: AECOM Technical Services Inc.
Project/Site: Lordsburg

Job ID: 550-185425-1
SDG: Lordsburg Compressor Station

Job ID: 550-185425-1

Laboratory: Eurofins Phoenix

Narrative

Job Narrative
550-185425-1

Comments
No additional comments.

Receipt
The sample was received on 6/9/2022 4:22 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 was 2.0º C.

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

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: Lordsburg

Job ID: 550-185425-1
SDG: Lordsburg Compressor Station

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
550-185425-1	EPWW1-06-07-2022	Water	06/07/22 13:01	06/09/22 16:22

Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: Lordsburg

Job ID: 550-185425-1
SDG: Lordsburg Compressor Station

Client Sample ID: EPWW1-06-07-2022

Lab Sample ID: 550-185425-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	45		1.0		ug/L	1		200.8 LL	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Lordsburg

Job ID: 550-185425-1
SDG: Lordsburg Compressor Station

Client Sample ID: EPWW1-06-07-2022
Date Collected: 06/07/22 13:01
Date Received: 06/09/22 16:22

Lab Sample ID: 550-185425-1
Matrix: Water

Method: 200.8 LL - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	45		1.0		ug/L		06/10/22 08:58	06/13/22 16:10	1

QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: Lordsburg

Job ID: 550-185425-1
SDG: Lordsburg Compressor Station

Method: 200.8 LL - Metals (ICP/MS)

Lab Sample ID: MB 550-276532/1-A
Matrix: Water
Analysis Batch: 276782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 276532

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		1.0		ug/L		06/10/22 08:58	06/13/22 15:47	1

Lab Sample ID: LCS 550-276532/2-A
Matrix: Water
Analysis Batch: 276782

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 276532

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium			100	98.8		ug/L		99	85 - 115		

Lab Sample ID: LCSD 550-276532/3-A
Matrix: Water
Analysis Batch: 276782

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 276532

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium			100	107		ug/L		107	85 - 115	8	20

Lab Sample ID: 550-185370-D-1-D MS
Matrix: Water
Analysis Batch: 276782

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 276532

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium	ND		100	97.3		ug/L		97	70 - 130		

Lab Sample ID: 550-185370-D-1-E MSD
Matrix: Water
Analysis Batch: 276782

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 276532

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium	ND		100	98.8		ug/L		99	70 - 130	1	20

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: Lordsburg

Job ID: 550-185425-1
SDG: Lordsburg Compressor Station

Metals

Prep Batch: 276532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-185425-1	EPWW1-06-07-2022	Dissolved	Water	200.8	
MB 550-276532/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-276532/2-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-276532/3-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-185370-D-1-D MS	Matrix Spike	Total/NA	Water	200.8	
550-185370-D-1-E MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

Analysis Batch: 276782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-185425-1	EPWW1-06-07-2022	Dissolved	Water	200.8 LL	276532
MB 550-276532/1-A	Method Blank	Total/NA	Water	200.8 LL	276532
LCS 550-276532/2-A	Lab Control Sample	Total/NA	Water	200.8 LL	276532
LCSD 550-276532/3-A	Lab Control Sample Dup	Total/NA	Water	200.8 LL	276532
550-185370-D-1-D MS	Matrix Spike	Total/NA	Water	200.8 LL	276532
550-185370-D-1-E MSD	Matrix Spike Duplicate	Total/NA	Water	200.8 LL	276532

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: Lordsburg

Job ID: 550-185425-1
SDG: Lordsburg Compressor Station

Client Sample ID: EPWW1-06-07-2022

Date Collected: 06/07/22 13:01
Date Received: 06/09/22 16:22

Lab Sample ID: 550-185425-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			276532	06/10/22 08:58	SGO	TAL PHX
Dissolved	Analysis	200.8 LL		1	276782	06/13/22 16:10	ARE	TAL PHX

Laboratory References:

TAL PHX = Eurofins Phoenix, 4625 East Cotton Center Boulevard, Suite #189, Phoenix, AZ 85040, TEL (602)437-3340

Accreditation/Certification Summary

Client: AECOM Technical Services Inc. Job ID: 550-185425-1
Project/Site: Lordsburg SDG: Lordsburg Compressor Station

Laboratory: Eurofins Phoenix

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
AIHA-LAP, LLC	Environmental Lead Laboratory Accreditation Program (ELLAP)	154268	11-01-23
AIHA-LAP, LLC	Industrial Hygiene Laboratory Accreditation Program (IHLAP)	154268	11-01-23
Nevada	State	AZ1030	07-31-22
Oregon	NELAP	AZ100001	03-09-23
USDA	US Federal Programs	P330-19-00227	08-27-22

Method Summary

Client: AECOM Technical Services Inc.
Project/Site: Lordsburg

Job ID: 550-185425-1
SDG: Lordsburg Compressor Station

Method	Method Description	Protocol	Laboratory
200.8 LL	Metals (ICP/MS)	EPA	TAL PHX
200.8	Preparation, Total Metals	EPA	TAL PHX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL PHX = Eurofins Phoenix, 4625 East Cotton Center Boulevard, Suite #189, Phoenix, AZ 85040, TEL (602)437-3340

Page 44 of 87

Eurofins TestAmerica Phoenix
4625 East Cotton Ctr Blvd Suite 189
Phoenix, AZ 85040
Phone (602) 437-3340 Fax (602) 454-9303

185425

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: MESSER	Lab PM: Carlene McCutcheon	Carrier Tracking No(s):	COC No:
Client Contact: Andrew Messer	Phone:	E-Mail: Carlene.McCutcheon@testamericainc.com		Page: Page ___ of ___
Company: AECOM				Job #:
Address: 333 E. Wetmore Rd. Suite 400	Due Date Requested:		Analysis Requested	
City: Tucson	TAT Requested (days): NORMAL			
State, Zip: AZ 85705	PO #:			
Phone: 520-247-7210	WO #:			
Email: andrew.messer@aecom.com	Project #:			
Project Name: Lordsburg	SSOW#:			
Site: Lordsburg Compressor Station				

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 - Na2S2SO3
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)	200.8 Cr - dissolved	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
EPWW1-06-07-2022 -01	07JUNE22	13:01	G	W	Y	Y	D	1	500 ml poly, w HNO3 FIELD FILTERED

550-185425 Chain of Custody

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)		Special Instructions/QC Requirements: See Analysis Request Form	
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Andrew Messer	07JUNE22	AECOM	Frankie Lopez	06/07/2022 12:11	DCS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Frankie Lopez	6/7/22 16:22	DCS		06-09-22 16:22	EGTSCO

Custody Seals Intact: Δ Yes	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		TEMP. 2.0 C.

Page 13 of 14
6/14/2022
Received by OCD: 3/30/2023 2:48:19 PM
Released to Imaging: 5/22/2023 1:39:01 PM

Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 550-185425-1
SDG Number: Lordsburg Compressor Station

Login Number: 185425
List Number: 1
Creator: Gravlin, Andrea

List Source: Eurofins Phoenix

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins Phoenix
4625 East Cotton Center Boulevard
Suite #189
Phoenix, AZ 85040
Tel: (602)437-3340

Laboratory Job ID: 550-191112-1
Laboratory Sample Delivery Group: Kinder Morgan
Client Project/Site: Lordsbug Station

For:
Stantec Consulting Services Inc
11311 Aurora Avenue
Des Moines, Iowa 50322-7904

Attn: Steve Varsa

Carlene McCutcheon

Authorized for release by:
10/7/2022 10:49:38 PM

Carlene McCutcheon, Project Manager II
(602)659-7612
Carlene.McCutcheon@et.eurofinsus.com

LINKS

Review your project results through my EOL

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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: Stantec Consulting Services Inc
Project/Site: Lordsbug Station

Laboratory Job ID: 550-191112-1
SDG: Kinder Morgan

Table of Contents

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Lordsbug Station

Job ID: 550-191112-1
SDG: Kinder Morgan

Qualifiers

Metals

Qualifier	Qualifier Description
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample.

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: Stantec Consulting Services Inc
Project/Site: Lordsbug Station

Job ID: 550-191112-1
SDG: Kinder Morgan

Job ID: 550-191112-1

Laboratory: Eurofins Phoenix

Narrative

Job Narrative
550-191112-1

Comments
No additional comments.

Receipt
The samples were received on 9/27/2022 3:36 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 0.8º C.

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

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Lordsbug Station

Job ID: 550-191112-1
SDG: Kinder Morgan

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
550-191112-1	WW#1	Water	09/27/22 10:30	09/27/22 15:36
550-191112-2	DUP-1	Water	09/27/22 10:30	09/27/22 15:36

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Lordsbug Station

Job ID: 550-191112-1
SDG: Kinder Morgan

Client Sample ID: WW#1 — Lab Sample ID: 550-191112-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.040		0.0010	0.00043	mg/L	1		200.8 LL	Dissolved

Client Sample ID: DUP-1 — Lab Sample ID: 550-191112-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.039		0.0010	0.00043	mg/L	1		200.8 LL	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Phoenix

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lordsbug Station

Job ID: 550-191112-1
SDG: Kinder Morgan

Client Sample ID: WW#1

Lab Sample ID: 550-191112-1
Matrix: Water
Date Collected: 09/27/22 10:30
Date Received: 09/27/22 15:36

Method: EPA 200.8 LL - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.040**		0.0010	0.00043	mg/L		09/28/22 05:08	09/29/22 08:35	1

Client Sample ID: DUP-1

Lab Sample ID: 550-191112-2
Matrix: Water
Date Collected: 09/27/22 10:30
Date Received: 09/27/22 15:36

Method: EPA 200.8 LL - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.039**		0.0010	0.00043	mg/L		09/28/22 05:08	09/29/22 08:37	1

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lordsbug Station

Job ID: 550-191112-1
SDG: Kinder Morgan

Method: 200.8 LL - Metals (ICP/MS)

Lab Sample ID: MB 550-285012/1-A
Matrix: Water
Analysis Batch: 285145

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 285012

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND	E8	0.0010	0.00043	mg/L		09/28/22 05:08	09/29/22 08:24	1

Lab Sample ID: LCS 550-285012/2-A
Matrix: Water
Analysis Batch: 285145

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 285012

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium			0.100	0.0899		mg/L		90	85 - 115		

Lab Sample ID: LCSD 550-285012/3-A
Matrix: Water
Analysis Batch: 285145

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 285012

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium			0.100	0.0935		mg/L		94	85 - 115	4	20

Lab Sample ID: 550-191112-1 MS
Matrix: Water
Analysis Batch: 285145

Client Sample ID: WW#1
Prep Type: Dissolved
Prep Batch: 285012

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium	0.040		0.100	0.128		mg/L		87	70 - 130		

Lab Sample ID: 550-191112-1 MSD
Matrix: Water
Analysis Batch: 285145

Client Sample ID: WW#1
Prep Type: Dissolved
Prep Batch: 285012

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium	0.040		0.100	0.127		mg/L		87	70 - 130	1	20

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Lordsbug Station

Job ID: 550-191112-1
SDG: Kinder Morgan

Metals

Prep Batch: 285012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-191112-1	WW#1	Dissolved	Water	200.8	
550-191112-2	DUP-1	Dissolved	Water	200.8	
MB 550-285012/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-285012/2-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-285012/3-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-191112-1 MS	WW#1	Dissolved	Water	200.8	
550-191112-1 MSD	WW#1	Dissolved	Water	200.8	

Analysis Batch: 285145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-191112-1	WW#1	Dissolved	Water	200.8 LL	285012
550-191112-2	DUP-1	Dissolved	Water	200.8 LL	285012
MB 550-285012/1-A	Method Blank	Total/NA	Water	200.8 LL	285012
LCS 550-285012/2-A	Lab Control Sample	Total/NA	Water	200.8 LL	285012
LCSD 550-285012/3-A	Lab Control Sample Dup	Total/NA	Water	200.8 LL	285012
550-191112-1 MS	WW#1	Dissolved	Water	200.8 LL	285012
550-191112-1 MSD	WW#1	Dissolved	Water	200.8 LL	285012

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Lordsbug Station

Job ID: 550-191112-1
SDG: Kinder Morgan

Client Sample ID: WW#1
Date Collected: 09/27/22 10:30
Date Received: 09/27/22 15:36

Lab Sample ID: 550-191112-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	200.8			285012	SGO	EET PHX	09/28/22 05:08
Dissolved	Analysis	200.8 LL		1	285145	ARE	EET PHX	09/29/22 08:35

Client Sample ID: DUP-1
Date Collected: 09/27/22 10:30
Date Received: 09/27/22 15:36

Lab Sample ID: 550-191112-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	200.8			285012	SGO	EET PHX	09/28/22 05:08
Dissolved	Analysis	200.8 LL		1	285145	ARE	EET PHX	09/29/22 08:37

Laboratory References:

EET PHX = Eurofins Phoenix, 4625 East Cotton Center Boulevard, Suite #189, Phoenix, AZ 85040, TEL (602)437-3340

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Project/Site: Lordsbug Station

Job ID: 550-191112-1
SDG: Kinder Morgan

Laboratory: Eurofins Phoenix

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

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0728	06-10-23

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Lordsbug Station

Job ID: 550-191112-1
SDG: Kinder Morgan

Method	Method Description	Protocol	Laboratory
200.8 LL	Metals (ICP/MS)	EPA	EET PHX
200.8	Preparation, Total Metals	EPA	EET PHX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET PHX = Eurofins Phoenix, 4625 East Cotton Center Boulevard, Suite #189, Phoenix, AZ 85040, TEL (602)437-3340

Page 58 of 87

>>> Select a Laboratory <<<
#N/A
#N/A
#N/A
#N/A

Chain of Custody Record

191112

eurofins | Environment Testing TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact	Project Manager: Steve Varsa	Site Contact:	Date: 9/27/22	COC No: 1 of 1 COCs
~~Your Company Name here~~ Stantec Consulting	Email: Steve.Varsa@stantec.com	Lab Contact:	Carrier:	TALS Project #:
Address 11311 Aurora Ave	Tel/Fax: 515-710-7523			Sampler: Chuck Graves
City/State/Zip Des Moines, IA 50322	Analysis Turnaround Time			For Lab Use Only:
(xxx) xxx-xxxx Phone 515-710-7523	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client:
(xxx) xxx-xxxx FAX	TAT if different from Below STD TAT			Lab Sampling:
Project Name: Lordsburg Station	☐ 2 weeks			
Site: Kinder Morgan	☐ 1 week			Job / SDG No.:
P O #	☐ 2 days ☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Dissolved Chromium 2008						Sample Specific Notes:
MW#1	9/27/22	1030	G	W	3	Y	N	X					-01	
Dup-1	9/27/22	1030	G	W	1	Y	N	X					-02	

550-191112 Chain of Custody

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for Months

Special Instructions/QC Requirements & Comments:

0.8°C ice COC

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: Corr'd:		Therm ID No.:
Relinquished by:	Company: Stantec	Date/Time: 9/27/22 1530	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: EETA-PHX	Date/Time: 9/27/22 1536

Form No. CA-C-WI-002, Rev. 4.26, dated 7/25/2019

Received by OCD: 3/30/2023 2:48:19 PM

Released to Imaging: 5/22/2023 1:39:01 PM

ARF FORM: SHEET 1

rev_6_08142014

KINDER MORGAN

Analytical Request Form (ARF)
Project Information

Current Site Company/Pipeline Name: EPGTR

ARF #: EPGTR-STAN-09-20-22-SRV-01 (xxx-xxx-mm-dd-yy-xxx-##)

Lab Cost Cluster: 06 Monitoring

Lab Subtask: Lab - I (1.4, 2.3, 7.3, 8.4)

ENFOS AOC / Project Name (make sure to match ENFOS AOC): Lordsburg.Chrom

Lab Work Directive (WD)/ENFOS WD/PO#: pending

Project Billing : ☑ Lab enters invoice through ENFOS ☐ Paper invoice mailed to KM PM listed below ☐ Other/Describe :

Site Description or contaminants of concern: chromium

Site Address: Lat/Long 32.3156281,-108.6124791

City: Lordsburg State: NM Country: United States

Regulatory Agency: NMOCD

Project Type (RCRA, CERCLA, TRRP):

Anticipated Start Date: 9/27/2022 Anticipated Completion Date: 9/30/2022

Frequency of Sampling: Once Sampling Plan Attached: No

Title(s)/Date(s) of attached sampling information:

Project Management Contacts

KM Contact

KM Office: Houston ☑ Copy on ARF Distribution

Address: 1001 Louisiana Street, Suite 1000
Houston, TX 77002

KM Project Manager: Doug Stavinoha

Phone : 713.420.5150 Fax: E-mail: Doug_Stavinoha@kindermorgan.com

Designated Consultant Contact

Designated Consultant Firm Name: Stantec Consulting Services

Address: 11311 Aurora Avenue
Des Moines, IA 50322

Designated Consultant Project Manager: Steve Varsa ☑ Copy on ARF Distribution

Phone : 515-253-0830 Fax: E-mail: steve.varsa@stantec.com

Laboratory Contact

Laboratory Name: TestAmerica Laboratories, Inc.

Address: 4625 East Cotton Ctr Blvd, Suite 189
Phoenix, AZ 85040

Laboratory Project Manager: Carlene McCutcheon ☑ Copy on ARF Distribution

Phone : 602.659.7612 Fax: E-mail: Carlene.McCutcheon@testamericainc.com

Environmental Standards Contact

QA Consultant Firm Name:

Address:

Environmental Standards Project Manager: ☐ Copy on ARF Distribution

Phone : Fax: E-mail:

Additional Parties to Receive ARF:

Name: Chuck Graves E-mail: chuck.graves@stantec.com

Affliation: Stantec

Name: E-mail:

Affliation:

Name: E-mail:

Affliation:

ARF_Lordsburg_09-20-22-srv-01.xlsx

ARF FORM: SHEET 1

Data Deliverables

Data Package Deliverables supplied to: steve.varsa@stantec.com

Required Data Deliverables Format(s): **PDF** Hardcopy PDF and Hardcopy CD

Required Format of Electronic Data Deliverables **Excel** Equis Enfos

Size Limitation for e-mail of deliverable _____ **MB** or Unlimited

Forward the Electronic Data Deliverables to:

	Name	E-Mail Address
	Scott Hansen	scott.hansen@stantec.com

Special Instructions for data package or electronic deliverable?:

Record of ARF Initiation and Revisions

Initiated ARF:	Name:	Steve Varsa	Date:	9/20/2022
Laboratory Acceptance:	Name:		Date:	
Revision 1:	Name:		Date:	
	Types of Changes:			
Revision 2:	Name:		Date:	
	Types of Changes:			
Revision 3:	Name:		Date:	
	Types of Changes:			
Revision 4:	Name:		Date:	
	Types of Changes:			

Page 61 of 87

ARF FORM: SHEET 2

Parameters and Analytical Methods Requested

rev_6_08142014

Projected Analytical Plan & Number of Samples to be Collected

Matrix Codes: A=Air W=Water S=Soil WP=wipe O=Oil OT=Other

Compound List or Parameter	Analytical Method	Matrix Code	Number of Investigatory Samples	Number of Samples for Hold/Archival	Number of Quality Control Samples: MS/MSD Pairs	Trip Blanks	Number of Rinse, Equipment, and Field Blanks	Field Duplicates	DP/TAT Level Code	Number of Samples Received by Laboratory	Confirmation of Number of Samples Analyzed
Chromium (dissolved)	EPA 200.8	W	1					1	L1/10D		

Sampling Frequency: ☑ SINGLE EVENT ☐ WEEKLY ☐ MONTHLY ☐ QUARTERLY ☐ SEMI-ANNUAL ☐ ANNUAL ☐ OTHER/Describe:

Are special regulatory requirements, detection limits or action levels needed? Cr <0.05 mg/L

Are SW-846 Method 5035 volatile organic analyses requested? ☐ YES If yes, what container is required? ☐ Tared Vials ☐ Methanol Vials ☐ 4-oz. jars ☐ EnCore Kits ☐ Terra Core Kits

Does an approved QAPjP exist? YES (FORWARD TO LABORATORY) Title: No

Revision/Date:

Are reporting estimated values "J" required for results less than the reporting limit? ☐ YES ☑ NO

Are tentatively identified compounds (TICs) required? Volatiles NO Semivolatiles NO

Sample retention time (post reporting): X 60 days (standard) Other (Hold for ____ days)

Ship Bottles to:

Name	Chuck Graves
Consultant	Stantec
Location Name	Stantec Office
Street Address	3133 W. Frye Street, Suite 300
City, State, Zip	Chandler, AZ 85226
Phone Number	480-687-6094

Date/Time Bottles Required 9/23/2022 - deliver to Stantec office in Mesa

Shipping Return:

☑ FedEx ☐ UPS ☐ Laboratory Courrier

☐ Saturday Receipt

ARF_Lordsburg_09-20-22-srv-01.xlsx

Received by OCD: 3/30/2023 2:48:19 PM

Released to Imaging: 5/22/2023 1:39:01 PM

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 550-191112-1
SDG Number: Kinder Morgan

Login Number: 191112
List Number: 1
Creator: Gravlin, Andrea

List Source: Eurofins Phoenix

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Steve Varsa
Stantec Consulting Services Inc
11311 Aurora Avenue
Des Moines, Iowa 50322-7904

Generated 12/26/2022 9:54:41 PM

JOB DESCRIPTION

Lordsburg Station
SDG NUMBER El Paso Natural Gas Compressor

JOB NUMBER

550-194904-1

Eurofins Phoenix
4625 East Cotton Center Boulevard
Suite #189
Phoenix AZ 85040

See page two for job notes and contact information.

Released to Imaging: 5/22/2023 1:39:01 PM

my EOL

Eurofins Phoenix

Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

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

Authorization

Generated
12/26/2022 9:54:41 PM

Authorized for release by
Carlene McCutcheon, Project Manager II
Carlene.McCutcheon@et.eurofinsus.com
(602)659-7612

Client: Stantec Consulting Services Inc
Project/Site: Lordsburg Station

Laboratory Job ID: 550-194904-1
SDG: El Paso Natural Gas Compressor

Table of Contents

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Lordsburg Station

Job ID: 550-194904-1
SDG: El Paso Natural Gas Compressor

Qualifiers

Metals

Qualifier	Qualifier Description
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample.

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: Stantec Consulting Services Inc
Project/Site: Lordsburg Station

Job ID: 550-194904-1
SDG: El Paso Natural Gas Compressor

Job ID: 550-194904-1

Laboratory: Eurofins Phoenix

Narrative

Job Narrative
550-194904-1

Comments
No additional comments.

Receipt
The samples were received on 12/13/2022 3:27 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 0.8º C.

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

Field Service / Mobile Lab
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Lordsburg Station

Job ID: 550-194904-1
SDG: El Paso Natural Gas Compressor

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
550-194904-1	WW #1	Water	12/13/22 09:55	12/13/22 15:27
550-194904-2	DUP-1	Water	12/13/22 09:55	12/13/22 15:27

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Lordsburg Station

Job ID: 550-194904-1
SDG: El Paso Natural Gas Compressor

Client Sample ID: WW #1 — Lab Sample ID: 550-194904-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.040		0.0010	0.00043	mg/L	1		200.8 LL	Dissolved

Client Sample ID: DUP-1 — Lab Sample ID: 550-194904-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.040		0.0010	0.00043	mg/L	1		200.8 LL	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Phoenix

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lordsburg Station

Job ID: 550-194904-1
SDG: El Paso Natural Gas Compressor

Client Sample ID: WW #1

Lab Sample ID: 550-194904-1
Matrix: Water
Date Collected: 12/13/22 09:55
Date Received: 12/13/22 15:27

Method: EPA 200.8 LL - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.040		0.0010	0.00043	mg/L		12/15/22 03:56	12/20/22 13:10	1

Client Sample ID: DUP-1

Lab Sample ID: 550-194904-2
Matrix: Water
Date Collected: 12/13/22 09:55
Date Received: 12/13/22 15:27

Method: EPA 200.8 LL - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.040		0.0010	0.00043	mg/L		12/15/22 03:56	12/20/22 13:12	1

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Lordsburg Station

Job ID: 550-194904-1
SDG: El Paso Natural Gas Compressor

Method: 200.8 LL - Metals (ICP/MS)

Lab Sample ID: MB 550-290821/1-A
Matrix: Water
Analysis Batch: 291151

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 290821

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND	E8	0.0010	0.00043	mg/L		12/15/22 03:56	12/20/22 13:00	1

Lab Sample ID: LCS 550-290821/2-A
Matrix: Water
Analysis Batch: 291151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 290821

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium			0.100	0.103		mg/L		103	85 - 115		

Lab Sample ID: LCSD 550-290821/3-A
Matrix: Water
Analysis Batch: 291151

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 290821

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium			0.100	0.102		mg/L		102	85 - 115	0	20

Lab Sample ID: 550-194904-1 MS
Matrix: Water
Analysis Batch: 291151

Client Sample ID: WW #1
Prep Type: Dissolved
Prep Batch: 290821

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium	0.040		0.100	0.137		mg/L		97	70 - 130		

Lab Sample ID: 550-194904-1 MSD
Matrix: Water
Analysis Batch: 291151

Client Sample ID: WW #1
Prep Type: Dissolved
Prep Batch: 290821

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium	0.040		0.100	0.137		mg/L		96	70 - 130	1	20

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Lordsburg Station

Job ID: 550-194904-1
SDG: El Paso Natural Gas Compressor

Metals

Prep Batch: 290821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-194904-1	WW #1	Dissolved	Water	200.8	
550-194904-2	DUP-1	Dissolved	Water	200.8	
MB 550-290821/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-290821/2-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-290821/3-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-194904-1 MS	WW #1	Dissolved	Water	200.8	
550-194904-1 MSD	WW #1	Dissolved	Water	200.8	

Analysis Batch: 291151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-194904-1	WW #1	Dissolved	Water	200.8 LL	290821
550-194904-2	DUP-1	Dissolved	Water	200.8 LL	290821
MB 550-290821/1-A	Method Blank	Total/NA	Water	200.8 LL	290821
LCS 550-290821/2-A	Lab Control Sample	Total/NA	Water	200.8 LL	290821
LCSD 550-290821/3-A	Lab Control Sample Dup	Total/NA	Water	200.8 LL	290821
550-194904-1 MS	WW #1	Dissolved	Water	200.8 LL	290821
550-194904-1 MSD	WW #1	Dissolved	Water	200.8 LL	290821

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Lordsburg Station

Job ID: 550-194904-1
SDG: El Paso Natural Gas Compressor

Client Sample ID: WW #1
Date Collected: 12/13/22 09:55
Date Received: 12/13/22 15:27

Lab Sample ID: 550-194904-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	200.8			290821	SGO	EET PHX	12/15/22 03:56
Dissolved	Analysis	200.8 LL		1	291151	ARE	EET PHX	12/20/22 13:10

Client Sample ID: DUP-1
Date Collected: 12/13/22 09:55
Date Received: 12/13/22 15:27

Lab Sample ID: 550-194904-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	200.8			290821	SGO	EET PHX	12/15/22 03:56
Dissolved	Analysis	200.8 LL		1	291151	ARE	EET PHX	12/20/22 13:12

Laboratory References:

EET PHX = Eurofins Phoenix, 4625 East Cotton Center Boulevard, Suite #189, Phoenix, AZ 85040, TEL (602)437-3340

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Project/Site: Lordsburg Station

Job ID: 550-194904-1
SDG: El Paso Natural Gas Compressor

Laboratory: Eurofins Phoenix

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

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0728	06-10-23

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Lordsburg Station

Job ID: 550-194904-1
SDG: El Paso Natural Gas Compressor

Method	Method Description	Protocol	Laboratory
200.8 LL	Metals (ICP/MS)	EPA	EET PHX
200.8	Preparation, Total Metals	EPA	EET PHX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET PHX = Eurofins Phoenix, 4625 East Cotton Center Boulevard, Suite #189, Phoenix, AZ 85040, TEL (602)437-3340

Eurofins Phoenix
4625 East Cotton Center Boulevard
Suite 189
Phoenix, AZ 85040-4807
phone 602.437.3340

Chain of Custody Record

194904

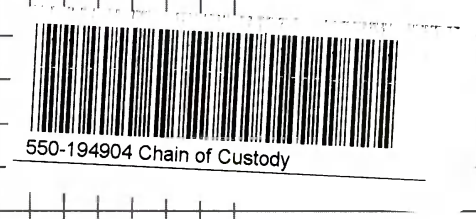
eurofins | Environment Testing America

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other:

Eurofins Environment Testing America

Client Contact	Project Manager: Steve Varsa	Site Contact:	Date: 12/13/22	COC No:
Company Name: STANTEC	Tel/Fax: 515-253-0830	Lab Contact: Carlene M.	Carrier:	1 of 1 COCs
Address: 11311 Aurora Ave	Email: steve.varsa@stantec.com			TALS Project #:
City/State/Zip: Des Moines, IA 50322	Analysis Turnaround Time: ☐CALENDAR DAYS ☐WORKING DAYS			Sampler: CHUCK Graves
Phone: 515-253-0830	TAT if different from Below: STD TAT			For Lab Use Only:
FAX	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Walk-in Client:
Project Name: Lordsburg Station				Lab Sampling:
Site: EL PASO Natural GAS Compressor				Job / SDG No.:
PO# WO# 1057302				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	200.8 Dissolved Chromium														Sample Specific Notes:
MW#1	12/13/22	0955	G	W	1	Y	N	X													-01	
DUP-1	12/13/22	0955	G	W	1	Y	N	X													-02	



Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☒Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐Return to Client ☒Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:
Metals were field filtered.

0.8°C IR#2 CF0

Custody Seals Intact: ☐Yes ☐No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: STANTEC	Date/Time: 12/13/22 15:27	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: EETA PHX	Date/Time: 12/13/22 1527

Page 76 of 87
Received by OCD: 3/30/2023 2:48:19 PM
12/26/2022
Page 14 of 15
Released to Imaging: 5/22/2023 1:39:01 PM

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc

Job Number: 550-194904-1
SDG Number: El Paso Natural Gas Compressor

Login Number: 194904
List Number: 1
Creator: Gravlin, Andrea

List Source: Eurofins Phoenix

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C

6-7-2022
LOKESBURG
NM TIME
11:45 AAM ONSITE
11:55 STANTEC ONSITE CHUCK GRAVES

NM TIME
11:00 PUMP ON 018487 ~~00~~ 48
12:08 48 GPM STOPWATCH

NO CAL SOLUTIONS W. METER
RELY ON BENCH CAL BY FEI

AZ TIME 11:15	T	EC us	PH	ORP	TOTALIZER
11:15	25.5	434.8	8.97	36	~1852300
11:25	25.7	434.7	9.17	11	~1852650
11:35	25.7	434.1	9.16	1	~1853115
11:45	25.7	433.6	9.14	2	~1853555
11:55	25.6	433.2	9.10	1	~1853970
12:05	25.7	433.0	9.04	3	~1854415
12:15	25.7	432.5	9.01	6	~1854805
12:25	25.6	431.5	8.95	10	~1855275
12:35	25.7	433.7	8.91	12	~1855798
12:45	25.6	433.7	8.91	12	~1856130
12:55	25.2	433.7	8.91	13	~1856570

13:01 SAMPLE COLLECTED

TAILGATE MTG
MUSTER PT, SLIP TRIP & FALL, BIOLOGICALS
PPE,
Cindy Mesa

Stantec

GROUNDWATER SAMPLE COLLECTION RECORD

Well No. WW#1

Job No.: 193709092 **Client:** El Paso Natural Gas Company

Location: Lordsburg Station, Hidalgo County, NM **Date:** 9/27/22

Weather Conditions: Clear / Sunny / Breezy

1. WATER LEVEL DATA: (from TOC)

a. Total Well Length (h) 440 feet — Well Diameter 14-inch inner diameter

b. Depth to Water ~90 feet — Three Well Volumes ~ 8,400 gallons

c. Length of Water Column ~350 feet — One System Volume

2. WELL PURGING DATA:

a. Purge Method Dedicated well pump

b. Purge Requirements Low Flow Stabilization

c. Field Testing Equipment Used YSI 550 Multiparameter Meter (S/N = 15F100867

Time	DTW (ft) N/A	GAL Volume (mL)	Temp. (°C) (+/- 10%)	pH (s.u.) (+/- 10%)	Spec.Cond. (µΩ/cm) (+/- 10%)	ORP (mV) (+/- 10%)	DO (mg/L) (N/A)	Turbidity (NTU) (N/A)	Color (visual)
1005	—	Start	22.06	8.92	428	84.4	1.22		clear
1008	—	~~4,000~~ 1	27.39	9.05	434	73.7	2.46		
1011	—	~~8,000~~ 2	23.43	9.09	434	71.0	2.60		
1014	—	~~12,000~~ 3	23.44	9.10	434	69.5	2.80		
1017	—	~~16,000~~ 4	23.49	9.12	434	67.8	3.09		
1020	—	5	23.53	9.13	433	64.9	3.16		
1023	—	6	23.56	9.11	433	67.0	3.23		
1026	—	7	23.59	9.10	433	65.4	3.27		
1029	—	8	23.60	9.09	433	65.2	3.22		↓

3. SAMPLE COLLECTION: Method In-well pump.

Container Type: 250-mL vial (1) Preservation: HNO3 Analysis Req.: Chromium -dissolved (EPA 300.8)

Container Type: Preservation: Analysis Req.:

Sample ID #: WW#1 Time Sampled: 1030

Start: 01863066

END: 01865066

4. COMMENTS: Start @ 10:05

QA/QC Sample Collected = Dup-1

Field Filtered? (Y) / N

Sampler (Signature)

Chuck Graves

(Print Name)

TERRATECH
Environmental Equipment & Supplies

549 S 48th St #104
Tempe, AZ 85281
480-303-0076
dean@terratechenv.com
terratechenv.com

9/23/2022

CALIBRATION CERTIFICATE

Customer: Stantec

Unit: Terratech Rental YSI 556 MPS Serial #15F100867

Calibration:

- pH 7 Buffer
- pH 4 Buffer
- 1413 us Conductivity Solution
- 240mV ORP Solution
- Dissolved Oxygen % Saturation in Calibration Chamber

CALIBRATION COMPLETE – Unit passed on all parameters according to the manufacturer's specifications

Dean D. Ferrin

Equipment Technician

Stantec

GROUNDWATER SAMPLE COLLECTION RECORD

Well No. WW#1

Job No.: 193709092 **Client:** El Paso Natural Gas Company

Location: Lordsburg Station, Hidalgo County, NM **Date:** 12/13/22

Weather Conditions: P. Cloudy / cool

1. WATER LEVEL DATA: (from TOC)

a. Total Well Length (h)	440 feet	Well Diameter	14-inch inner diameter
b. Depth to Water	92.16 ~90 feet	Three Well Volumes	gallons
c. Length of Water Column	~350 feet	One System Volume	

2. WELL PURGING DATA:

a. Purge Method: Dedicated well pump

b. Purge Requirements: Low Flow Stabilization

c. Field Testing Equipment Used: YSI 550 Multiparameter Meter (S/N =07K100461)

Time	DTW (ft) N/A	Volume (mL)	Temp. (°C) (+/- 10%)	pH (s.u.) (+/- 10%)	Spec.Cond. (µΩ/cm) (+/- 10%)	ORP (mV) (+/- 10%)	DO (mg/L) (N/A)	Turbidity (NTU) (N/A)	Color (visual)
09:27	92.16	Start	13.59	8.63	459	304.5	2.24	—	Clear
09:30			21.82	9.13	468	267.7	2.32	—	
09:33		4,000	22.50	9.06	469	243.0	2.41		
09:36			22.70	8.96	471	170.7	2.38		
09:39		8,000	22.80	8.94	470	134.0	2.49		
09:42			22.77	8.93	470	72.2	2.65		
09:45			22.83	8.93	469	22.5	2.61		
09:48			22.96	8.92	468	-6.1	2.57		
09:51			23.11	8.89	469	-25.1	2.64		
09:54		12,000	22.99	8.89	468	-32.7	2.63		

3. SAMPLE COLLECTION: Method: In-well pump.

Container Type: 250-mL vial (1) Preservation: NO3 Analysis Req.: Chromium -dissolved (EPA 300.8)

Container Type: Preservation: Analysis Req.:

Sample ID #: WW# 1 Time Sampled: 09:55

4. COMMENTS: Meter start: 1870884 END: 1872531 (1,616 gal) (60 gpm)

QA/QC Sample Collected = N

Field Filtered? Y / N

Sampler (Signature)

Chuck Graves

(Print Name)

TERRATECH
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Tempe, AZ 85281
480-303-0076
dean@terratechenv.com
terratechenv.com

12/9/2022

CALIBRATION CERTIFICATE

Customer: Stantec

Unit: Terratech Rental YSI 556 MPS Serial #07K100461

Calibration:

- pH 7 Buffer
- pH 4 Buffer
- 1413 us Conductivity Solution
- 240mV ORP Solution
- Dissolved Oxygen % Saturation in Calibration Chamber

CALIBRATION COMPLETE – Unit passed on all parameters according to the manufacturer's specifications

Dean D. Ferrin

Equipment Technician

APPENDIX D

APPENDIX D

DATA VALIDATION REPORT

2022 Annual Groundwater Monitoring Report
Lordsburg Compressor Station, Hidalgo County, New Mexico

February 28, 2023

Prepared for:
El Paso Natural Gas Company, LLC

INTRODUCTION

This data validation report summarizes the quality assurance (QA) and quality control (QC) (QA/QC) results for the samples collected and data generated during 2022 Groundwater Monitoring Events conducted at the Lordsburg Compressor Station (site) on September 27 and December 13, 2022. Groundwater samples and associated field QA/QC samples were collected by Stantec Consulting Services Inc. (Stantec) and analyzed by Eurofins Environment Testing located in Phoenix, Arizona (Eurofins Phoenix) for dissolved chromium by inductively coupled plasma/mass spectrometry (ICP/MS) method EPA 200.8 LL.

DATA EVALUATION

Data quality was evaluated relative to the following data quality indicators and associated QC control limits: precision, accuracy, representativeness, comparability, completeness, sensitivity, and traceability. Data were evaluated and qualified in general accordance with applicable portions of the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) National Functional Guidelines for Inorganic Superfund Data Review. Data verification and validation activities were based on Stage 2B completeness and compliance checks of sample-related and instrument-related QC results identified in USEPA Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use. Compliance-check QC results were compared to control limits also presented in the laboratory analytical reports.

The following samples and analyses were evaluated during the data validation.

- Sample Delivery Group (SDG) 550-191112:
  - WW#1
  - DUP-1, field duplicate sample of WW#1
- SDG 550-194904:
  - WW#1
  - DUP-1, field duplicate sample of WW#1

DATA VALIDATION RESULTS

QC parameter results were within control limits specified in the method and laboratory analytical reports, except for results noted in the following method summaries. Based on the results of this data quality review, the data are considered usable as reported for the purpose of the monitoring activities.

Metals by ICP/MS Method EPA 200.8 LL

QC Parameter	Acceptable	Acceptable with Qualification	Not Acceptable
Traceability			
Sample Documented in Field Logbook/Form	X		
Sample Documented on Chain-of-Custody Form	X		
Sample Documented in Analytical Report	X		
Comparability			
Use of Standard Field Procedures	X		
Use of Standard Analytical Methods	X		
Use of Standard Units of Measure	X		
Representativeness			
Sample Hold Time	X		
Sample Preservation	X		
Completeness			
Analyte List	X		
Sensitivity			
Quantitation Limits	X		
Accuracy			
Method Blank	X		
Laboratory Control Sample/Duplicate Recovery Results	X		
Matrix Spike/Matrix Spike Duplicate Recovery Results	X		
Precision			
Laboratory Control Sample/Duplicate RPD	X		
Matrix Spike/Matrix Spike Duplicate RPD	X		
Field Duplicate Results	X		

Validation Notes:

For precision measurements, precision is expressed as the relative percent difference (RPD) of the values and is calculated as follows:

$$RPD = \frac{Primary - Duplicate}{\frac{1}{2}(Primary - Duplicate)} x100$$

Sensitivity is evaluated by comparing the analyte quantitation limit (reporting level [RL] and/or method detection level [MDL]) or reported value of each reported analyte concentration not analyzed at a dilution to the regulatory target level for the analyte.

Each metals sample was found to be acceptable as reported in regard to the data quality indicators of traceability, comparability, representativeness, completeness, sensitivity, accuracy, and precision.

District I
1625 N. French Dr., Hobbs, NM 88240
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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 202436

CONDITIONS

Operator:	OGRID:
El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	7046
	Action Number: 202436
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of 2022 Annual Groundwater Report: Content satisfactory 1. Proceed with Recommendations as stated in this report. 2. Submit next annual groundwater monitoring report no later than April 1, 2024.	5/22/2023