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El Paso Natural Gas
Company, L.L.C.
a Kinder Morgan company

June 21, 2022
Submitted via NMOCD E-Permitting

Mr. Bradford Billings
New Mexico Oil Conservation Division
1220 South St. Francis Drive, #3
Santa Fe, New Mexico 87505

RE: 2021 Sampling Summary Report
Lordsburg Station
NMOCD Incident # nAPP2217233972

Mr. Billings:

Attached is a Memorandum completed on behalf of El Paso Natural Gas Company, LLC (EPNG) documenting the results of 2021 Quarterly Groundwater Sampling activities at the above-referenced site. Quarterly groundwater sampling is to continue in 2022. The results will be summarized in a report to be submitted to NMOCD by July 1, 2023.

Please feel free to contact me at 713-420-5150 if you have further questions.

Sincerely,

A handwritten signature in blue ink, appearing to read 'D. Stavinoha', with a stylized flourish at the end.

Doug Stavinoha, P.G.
Remediation Project Manager

Enclosure

cc: Steve Varsa, Stantec Environmental Services



Memorandum

Date: February 2, 2022

To: Doug Stavinoha, P.G, Kinder Morgan, Inc.

From: Andrew Messer, P.G., AECOM Technical Services, Inc.

Subject: **2021 Quarterly Groundwater Sampling Results
Lordsburg Compressor Station
Lordsburg, New Mexico**

INTRODUCTION

At the request of El Paso Natural Gas Company (EPNG), a subsidiary of Kinder Morgan, Inc., AECOM Technical Services Inc. (AECOM) conducted quarterly groundwater sampling at the Lordsburg Compressor Station (the Site) in 2021. Groundwater samples were collected from the station water supply well EPWW1 (New Mexico well record #69807) and analyzed for dissolved chromium. Groundwater monitoring results for 2021 are summarized in this technical memorandum.

BACKGROUND

The Lordsburg Compressor Station began operation in 1952. Water supply wells EPWW1 and EPWW2 were constructed in 1951. Chromate 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. EPNG conducted screening investigations for chromium in soil and groundwater at the Site in 2006. Production well EPWW1 was sampled. Production well EPWW2 had collapsed and was not available for sampling. In 2009 EPNG sampled regional groundwater from six residential and stock wells west of the site and one stock well east of the site that were available for sampling. Concentrations of dissolved chromium exceeded the New Mexico groundwater standard for dissolved chromium in the stock well approximately one mile east from the site and indicates the stock well is or was down-hydraulic-gradient and the general groundwater flow direction is or was to the southeast. Dissolved chromium was detected in four of the six wells to the west of the site that were available for sampling at concentrations that were less than 0.01 milligrams per liter (mg/L). Remnants of large capacity pumping equipment, including diesel engines and wells are located to the southeast of the site, that appear to have been used to fill shallow lakes. Historical pumping from these wells may have influenced groundwater flow direction in the past.



Following the 2009 investigation, EPNG began annual groundwater sampling of well EPWW1 and an offsite windmill well and stock tank located on private property approximately 0.9 mile to the east-southeast from the Site. The windmill well was last sampled in 2013 and 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 0.005mg/L to 0.062 mg/L in the windmill well. Quarterly groundwater sampling of EPWW1 was initiated in 2019 and continued through 2021. Historical and recent data for dissolved chromium in groundwater in production well EPWW1 and the windmill well are summarized in Table 1.

LORDSBURG COMPRESSOR STATION WELL

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. Site records indicated water levels for unknown dates of 115 and 82 feet below ground surface in wells EPWW1 and EPWW2, respectively. Pre-pumping depth to water in EPWW1 was measured at approximately 92 feet below ground surface in April 2014 and April 2015. Depth to water is not routinely measured because the well is not equipped with a sounder access tube to prevent entanglement. Based on a depth to water of 92 feet, the reported total depth of 440 feet, and an inside diameter of 12 inches, one well casing volume is approximately 2,044 gallons. Prior to sampling, the well is pumped for a minimum of three well casing volumes, and until water quality parameters have stabilized. Pumped water was discharged to the station water storage tank and is used for site operations. Records indicate the well screen interval is from 195 to 440 feet below ground surface, starting 103 feet below the estimated groundwater level.

Quarterly groundwater sampling activities were performed on March 23, 2021, June 7, 2021, August 25, 2021 and December 15, 2021. Field parameters of temperature, specific conductance, pH, and oxidation reduction potential were monitored during pumping. Each groundwater sample was collected after passing the sample through a 0.45-micron filter into laboratory-provided, pre-preserved containers, and placed on ice for transportation to the analytical laboratory, under chain of custody.

SAMPLING RESULTS

Laboratory samples were submitted for analyses to Test America Laboratories, Inc., in Phoenix, Arizona. Dissolved chromium results are summarized in Table 1, and the laboratory reports for the four quarters of 2021 are attached to this report. AECOM conducted a data review of the



laboratory report and the results are summarized in the attached Data Review Memorandum. All data were found to be suitable for their intended purpose.

New Mexico has established a standard for maximum allowable concentration of chromium in groundwater, which includes trivalent and hexavalent chromium, at 0.05 mg/L, which applies to the dissolved portion of the contaminants (New Mexico Administrative Code 20.6.2.3103). Standards for total recoverable chromium or for hexavalent chromium have not been established by the state of New Mexico. Kinder Morgan reports that a site-specific action level for dissolved chromium of 0.055 mg/L has been established for the Lordsburg Station by New Mexico regulators.

The following trends in dissolved chromium concentrations were noted:

- During the period of annual groundwater sampling from 2009 to 2018, dissolved chromium concentrations in well EPWW1 ranged from 0.0459 mg/L to 0.0554 mg/L. The site-specific standard of 0.055 mg/L was exceeded one time at a concentration of 0.0554 mg/L in the groundwater sample collected from well EPWW1 on March 13, 2013.
- During 2019 quarterly groundwater sampling, dissolved chromium concentrations ranged from 0.052 mg/L to 0.053 mg/L, and the site-specific standard for dissolved chromium in groundwater was not exceeded.
- During 2020 quarterly groundwater sampling, dissolved chromium concentrations ranged from 0.045 mg/L to 0.056 mg/L. The site-specific standard of 0.055 mg/L for dissolved chromium in groundwater was exceeded slightly at a concentration of 0.056 mg/L in the groundwater sample collected from well EPWW1 on August 19, 2020.
- During 2021 quarterly groundwater sampling, dissolved chromium concentrations ranged from 0.054 mg/L to 0.056 mg/L. The site-specific action level of 0.055 mg/L for dissolved chromium in groundwater was exceeded at a concentration of 0.056 mg/L in the groundwater sample collected from well EPWW1 on June 4, 2021.

LIMITATIONS

This memorandum summarizes results of a limited investigation and is not intended to be used as the sole basis for final design, construction, or remedial action, or as a basis for major capital decisions.

Attachments:

- Table 1. Summary of Dissolved Chromium Results for Groundwater Samples
- Data Review Memorandum
- Laboratory Reports
- Field Notes

TABLE



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	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	0.0620	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	

¹ Sample filtered using 0.045 micro filter
mg/L - milligrams per liter
FD - Field duplicate sample
BOLD = exceeds the site-specific action level of 0.055 mg/L dissolved chromium

DATA REVIEW MEMORANDUM

**El Paso Natural Gas/Kinder Morgan
Lordsburg
2021 Data Validation Report**

Sample Delivery Group: 550-160580-1, 550-165277-1, 550-169691-1, 550-175978-1

Sampling Date: March 23, 2021, June 10, 2021, August 26, 2021, December 15, 2021

Data Reviewer: Katie Abbott

Date Completed: January 25, 2022

Peer Reviewer: Brian Rothmeyer

Date Completed: January 27, 2022

The table below summarizes the results presented in this data package.

Field ID	Sample Type	Laboratory ID	Matrix	Analyses
				Dissolved Chromium
550-160580-1 (March 2021)				
EPWW1-03-23-21	SA	550-160580-1	Water	X
550-165277-1 (June 2021)				
EPWW1-060421	SA	550-165277-1	Water	X
550-169691-1 (August 2021)				
EPWW1-08-25-21	SA	550-169691-1	Water	X
550-175978-1 (December 2021)				
EPWW-1	SA	550-175978-1	Water	X

Sample Type: SA – Sample

Analyses: Dissolved Chromium (200.8)

This report contains the final result of the data validation conducted for the quarterly sampling for 2021. The sample results were presented in four data packages for the data analysis. The data review was performed using guidance set forth in *United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) National Functional Guidelines for Inorganic Superfund Methods Data Review* (November 2020); method requirements, and laboratory criteria.

General Overall Assessment:

- Data are usable without qualification.
- Data are usable with qualification (noted below and summarized in Attachment A).
- Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any case narrative comments concerning data qualification were noted in the table below. The other exceptions are covered in the following table.

Review Parameter	Criteria Met?	Comments
Chain of Custody & Sample Receipt	Yes	The samples were received by Eurofins Phoenix in good condition and accompanied by a chain of custody (COC). The cooler temperatures upon receipt were within the acceptable criterion of $\leq 6^{\circ}\text{C}$. Data qualification was not necessary.
Holding Times	Yes	The samples were received and analyzed within holding time.
Laboratory Blanks <ul style="list-style-type: none"> Method Blank Filter Blank 	Yes	Target analytes were not detected within the method or calibration blanks.
Matrix Quality Control <ul style="list-style-type: none"> Matrix Spike/ Matrix Spike Duplicate None	NA	Matrix Spike/Matrix Spike Duplicate (MS/MSD) An MS/MSD was not performed on the sample in these data packages.
Laboratory Performance <ul style="list-style-type: none"> Laboratory Control Sample 	Yes	One laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) per method per analytical batch was prepared and analyzed. The LCS recoveries and LCS/LCSD relative percent differences (RPDs) were within the laboratory acceptance limits. These results are indicative of an acceptable level of accuracy and precision with respect to the analytical method.
Field Quality Control <ul style="list-style-type: none"> Field Blank None <ul style="list-style-type: none"> Field Duplicate None	NA	Field Blank/Equipment Blank A field blank and equipment blank were not submitted in these data packages. Field Duplicate A field duplicate was not performed on the sample in this data package.
Method Quantitation Limits Met?	Yes	No results were reported as non-detect at elevated reporting limits.
Package Completeness	Yes	The results are usable as qualified for the project objective. The data are 100% complete.

% – Percent

$^{\circ}\text{C}$ – Degrees Celsius

\leq – Less Than or Equal To

COC – Chain of Custody

LCS – Laboratory Control Sample

LCSD – Laboratory Control Sample Duplicate

MS/MSD – Matrix Spike/Matrix Spike Duplicate

NA – Not Applicable

RPDs – Relative Percent Differences

LABORATORY REPORTS



Environment Testing
America

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ANALYTICAL REPORT

Eurofins TestAmerica, Phoenix
 4625 East Cotton Ctr Blvd
 Suite 189
 Phoenix, AZ 85040
 Tel: (602)437-3340

Laboratory Job ID: 550-160580-1
 Laboratory Sample Delivery Group: 60597666
 Client Project/Site: Lordsburg

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

Attn: Andrew Messer

Authorized for release by:
 4/2/2021 5:03:25 PM

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



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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: 550-160580-1
SDG: 60597666

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Definitions/Glossary

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

Job ID: 550-160580-1
SDG: 60597666

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: 550-160580-1
SDG: 60597666

Job ID: 550-160580-1

Laboratory: Eurofins TestAmerica, Phoenix

Narrative

Job Narrative
550-160580-1

Comments

No additional comments.

Receipt

The sample was received on 3/24/2021 8:37 AM. 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 4.8° 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.

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Sample Summary

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

Job ID: 550-160580-1
SDG: 60597666

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
550-160580-1	EPWW1-03-23-21	Water	03/23/21 12:30	03/24/21 08:37	

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Detection Summary

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

Job ID: 550-160580-1
SDG: 60597666

Client Sample ID: EPWW1-03-23-21

Lab Sample ID: 550-160580-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, Dissolved	55		1.0		ug/L	1		200.8 LL	Dissolved

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This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Phoenix

Client Sample Results

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

Job ID: 550-160580-1
SDG: 60597666

Client Sample ID: EPWW1-03-23-21

Lab Sample ID: 550-160580-1

Date Collected: 03/23/21 12:30

Matrix: Water

Date Received: 03/24/21 08:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Dissolved	55		1.0		ug/L		03/24/21 19:00	03/25/21 23:54	1

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QC Sample Results

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

Job ID: 550-160580-1
SDG: 60597666

Method: 200.8 LL - Metals (ICP/MS)

Lab Sample ID: MB 550-237172/1-A
Matrix: Water
Analysis Batch: 237396

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237172

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, Dissolved	ND		1.0		ug/L		03/24/21 19:00	03/25/21 23:42	1

Lab Sample ID: LCS 550-237172/2-A
Matrix: Water
Analysis Batch: 237396

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237172

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, Dissolved	100	95.9		ug/L		96	85 - 115

Lab Sample ID: LCSD 550-237172/3-A
Matrix: Water
Analysis Batch: 237396

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 237172

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, Dissolved	100	95.3		ug/L		95	85 - 115	1	20

Lab Sample ID: 550-160583-E-1-A MS
Matrix: Water
Analysis Batch: 237396

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 237172

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, Dissolved	6.4		100	98.6		ug/L		92	70 - 130

Lab Sample ID: 550-160583-E-1-B MSD
Matrix: Water
Analysis Batch: 237396

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 237172

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, Dissolved	6.4		100	101		ug/L		95	70 - 130	3	20

QC Association Summary

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

Job ID: 550-160580-1
 SDG: 60597666

Metals

Prep Batch: 237172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-160580-1	EPWW1-03-23-21	Dissolved	Water	200.8	
MB 550-237172/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-237172/2-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-237172/3-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-160583-E-1-A MS	Matrix Spike	Total/NA	Water	200.8	
550-160583-E-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

Analysis Batch: 237396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-160580-1	EPWW1-03-23-21	Dissolved	Water	200.8 LL	237172
MB 550-237172/1-A	Method Blank	Total/NA	Water	200.8 LL	237172
LCS 550-237172/2-A	Lab Control Sample	Total/NA	Water	200.8 LL	237172
LCSD 550-237172/3-A	Lab Control Sample Dup	Total/NA	Water	200.8 LL	237172
550-160583-E-1-A MS	Matrix Spike	Total/NA	Water	200.8 LL	237172
550-160583-E-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	200.8 LL	237172

Lab Chronicle

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

Job ID: 550-160580-1
SDG: 60597666

Client Sample ID: EPWW1-03-23-21

Lab Sample ID: 550-160580-1

Date Collected: 03/23/21 12:30

Matrix: Water

Date Received: 03/24/21 08:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			237172	03/24/21 19:00	SXF	TAL PHX
Dissolved	Analysis	200.8 LL		1	237396	03/25/21 23:54	ARE	TAL PHX

Laboratory References:

TAL PHX = Eurofins TestAmerica, Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

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Accreditation/Certification Summary

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

Job ID: 550-160580-1
SDG: 60597666

Laboratory: Eurofins TestAmerica, Phoenix

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

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0728	06-08-21

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Method Summary

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

Job ID: 550-160580-1
SDG: 60597666

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 TestAmerica, Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

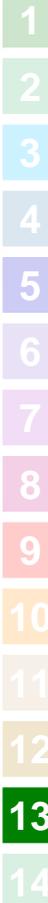
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Chain of Custody Record

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

Client Information Andrew Messer Company: AECOM		Lab P#: Carlene McCutcheon		Carrier Tracking No(s):	
Address: 333 E. Weimore Rd. Suite 400 City: Tucson State, Zip: AZ 85705 Phone: 520-247-7210 Email: andrew.messer@aecom.com		E-Mail: Carlene.McCutcheon@testamericainc.com		Page: 1 of 1 Job #:	
Project Name: Lordsburg Site: Lordsburg Compressor Station		PO #: WO #: Project #: SSOW#: 60597666		Analysis Requested	
Due Date Requested: TAT Requested (days): STANDARD		Field Filtered Sample (Yes or No) 200.8 Cr - dissolved		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 Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)	
Sample Identification - Client ID (Lab ID) EPWW1-03-23-21		Sample Date 08/23/2021		Special Instructions/Note: 1 500 ml poly (FEDU FILTERED)	
Sample Type (C=Comp, G=grab) G		Sample Time 1230		Total Number of containers 1	
Matrix (W=water, S=solid, O=other, etc.) W		Preservation Code: G		Barcode: 550-160560 Chain of Custody	
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/OC Requirements: See Analysis Request Form					
Empty Kit Relinquished by: _____ Date: _____					
Relinquished by: _____ Date/Time: 03/23/2021 0837		Company: AECOM		Received by: _____ Date/Time: _____	
Relinquished by: _____ Date/Time: _____		Company: _____		Received by: _____ Date/Time: _____	
Relinquished by: _____ Date/Time: _____		Company: _____		Received by: _____ Date/Time: 3/24/21 837-AECOM	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 48° FTA	



Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 550-160580-1

SDG Number: 60597666

Login Number: 160580

List Number: 1

Creator: Maycock, Lisa

List Source: Eurofins TestAmerica, 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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Environment Testing
America

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ANALYTICAL REPORT

Eurofins TestAmerica, Phoenix
 4625 East Cotton Ctr Blvd
 Suite 189
 Phoenix, AZ 85040
 Tel: (602)437-3340

Laboratory Job ID: 550-165277-1
 Client Project/Site: EPNG/KM

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

Attn: Andrew Messer



Authorized for release by:
 6/21/2021 5:07:39 PM

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



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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: EPNG/KM

Laboratory Job ID: 550-165277-1

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Definitions/Glossary

Client: AECOM Technical Services Inc.
Project/Site: EPNG/KM

Job ID: 550-165277-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: EPNG/KM

Job ID: 550-165277-1

Job ID: 550-165277-1

Laboratory: Eurofins TestAmerica, Phoenix

Narrative

**Job Narrative
550-165277-1**

Comments

No additional comments.

Receipt

The sample was received on 6/10/2021 3:03 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 3.8° 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.

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Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: EPNG/KM

Job ID: 550-165277-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
550-165277-1	EPWW1-060421	Water	06/09/21 12:14	06/10/21 15:03	

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Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: EPNG/KM

Job ID: 550-165277-1

Client Sample ID: EPWW1-060421

Lab Sample ID: 550-165277-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	56		1.0		ug/L	1		200.8 LL	Dissolved

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This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Phoenix

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: EPNG/KM

Job ID: 550-165277-1

Client Sample ID: EPWW1-060421

Lab Sample ID: 550-165277-1

Date Collected: 06/09/21 12:14

Matrix: Water

Date Received: 06/10/21 15:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	56		1.0		ug/L		06/15/21 10:25	06/16/21 16:30	1

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QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: EPNG/KM

Job ID: 550-165277-1

Method: 200.8 LL - Metals (ICP/MS)

Lab Sample ID: MB 550-245305/1-A
Matrix: Water
Analysis Batch: 245549

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 245305

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		1.0		ug/L		06/15/21 10:25	06/16/21 15:50	1

Lab Sample ID: LCS 550-245305/2-A
Matrix: Water
Analysis Batch: 245549

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 245305

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	100	99.7		ug/L		100	85 - 115

Lab Sample ID: LCSD 550-245305/3-A
Matrix: Water
Analysis Batch: 245549

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 245305

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	100	102		ug/L		102	85 - 115	2	20

Lab Sample ID: 550-165373-A-2-B MS
Matrix: Water
Analysis Batch: 245549

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 245305

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	4.9		100	103		ug/L		98	70 - 130

Lab Sample ID: 550-165373-A-2-C MSD
Matrix: Water
Analysis Batch: 245549

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 245305

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	4.9		100	103		ug/L		98	70 - 130	0	20

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: EPNG/KM

Job ID: 550-165277-1

Metals

Prep Batch: 245305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-165277-1	EPWW1-060421	Dissolved	Water	200.8	
MB 550-245305/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-245305/2-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-245305/3-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-165373-A-2-B MS	Matrix Spike	Total/NA	Water	200.8	
550-165373-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

Analysis Batch: 245549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-165277-1	EPWW1-060421	Dissolved	Water	200.8 LL	245305
MB 550-245305/1-A	Method Blank	Total/NA	Water	200.8 LL	245305
LCS 550-245305/2-A	Lab Control Sample	Total/NA	Water	200.8 LL	245305
LCSD 550-245305/3-A	Lab Control Sample Dup	Total/NA	Water	200.8 LL	245305
550-165373-A-2-B MS	Matrix Spike	Total/NA	Water	200.8 LL	245305
550-165373-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8 LL	245305

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: EPNG/KM

Job ID: 550-165277-1

Client Sample ID: EPWW1-060421

Lab Sample ID: 550-165277-1

Date Collected: 06/09/21 12:14

Matrix: Water

Date Received: 06/10/21 15:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			245305	06/15/21 10:25	SGO	TAL PHX
Dissolved	Analysis	200.8 LL		1	245549	06/16/21 16:30	MGM	TAL PHX

Laboratory References:

TAL PHX = Eurofins TestAmerica, Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

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Accreditation/Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: EPNG/KM

Job ID: 550-165277-1

Laboratory: Eurofins TestAmerica, Phoenix

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

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

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Method Summary

Client: AECOM Technical Services Inc.
Project/Site: EPNG/KM

Job ID: 550-165277-1

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 TestAmerica, Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

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Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 550-165277-1

Login Number: 165277

List Source: Eurofins TestAmerica, Phoenix

List Number: 1

Creator: Doerr, Bret C

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.	False	Check done at department level as required.

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Environment Testing
America

ANALYTICAL REPORT

Eurofins TestAmerica, Phoenix
4625 East Cotton Ctr Blvd
Suite 189
Phoenix, AZ 85040
Tel: (602)437-3340

Laboratory Job ID: 550-169691-1
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:
9/2/2021 1:06:28 PM
Rachelle Ferguson, Project Manager I
(602)437-3340
fergusonr@eurofinset.com

Designee for
Carlene McCutcheon, Project Manager II
(602)659-7612
Carlene.McCutcheon@Eurofinset.com

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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.

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

Laboratory Job ID: 550-169691-1
SDG: Lordsburg Compressor Station

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Definitions/Glossary

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

Job ID: 550-169691-1
SDG: Lordsburg Compressor Station

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: 550-169691-1
SDG: Lordsburg Compressor Station

Job ID: 550-169691-1

Laboratory: Eurofins TestAmerica, Phoenix

Narrative

Job Narrative
550-169691-1

Comments

No additional comments.

Receipt

The sample was received on 8/26/2021 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 was 0.7° 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.

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Sample Summary

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

Job ID: 550-169691-1
SDG: Lordsburg Compressor Station

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
550-169691-1	EPWW1-08-25-21	Water	08/25/21 13:06	08/26/21 14:30

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Detection Summary

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

Job ID: 550-169691-1
SDG: Lordsburg Compressor Station

Client Sample ID: EPWW1-08-25-21

Lab Sample ID: 550-169691-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	54		1.0		ug/L	1		200.8 LL	Dissolved

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This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Phoenix

Client Sample Results

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

Job ID: 550-169691-1
SDG: Lordsburg Compressor Station

Client Sample ID: EPWW1-08-25-21

Lab Sample ID: 550-169691-1

Date Collected: 08/25/21 13:06

Matrix: Water

Date Received: 08/26/21 14:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	54		1.0		ug/L		08/30/21 06:35	09/01/21 11:24	1

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QC Sample Results

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

Job ID: 550-169691-1
SDG: Lordsburg Compressor Station

Method: 200.8 LL - Metals (ICP/MS)

Lab Sample ID: MB 550-251846/1-A
Matrix: Water
Analysis Batch: 252188

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 251846

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		1.0		ug/L		08/30/21 06:35	09/01/21 11:08	1

Lab Sample ID: LCS 550-251846/2-A
Matrix: Water
Analysis Batch: 252188

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 251846

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	100	102		ug/L		102	85 - 115

Lab Sample ID: LCSD 550-251846/3-A
Matrix: Water
Analysis Batch: 252188

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 251846

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	100	105		ug/L		105	85 - 115	2	20

Lab Sample ID: 550-169660-E-1-A MS
Matrix: Water
Analysis Batch: 252188

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 251846

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	2.8		100	103		ug/L		101	70 - 130

Lab Sample ID: 550-169660-E-1-B MSD
Matrix: Water
Analysis Batch: 252188

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 251846

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	2.8		100	103		ug/L		101	70 - 130	0	20

QC Association Summary

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

Job ID: 550-169691-1
 SDG: Lordsburg Compressor Station

Metals

Prep Batch: 251846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-169691-1	EPWW1-08-25-21	Dissolved	Water	200.8	
MB 550-251846/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-251846/2-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-251846/3-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-169660-E-1-A MS	Matrix Spike	Total/NA	Water	200.8	
550-169660-E-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

Analysis Batch: 252188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-169691-1	EPWW1-08-25-21	Dissolved	Water	200.8 LL	251846
MB 550-251846/1-A	Method Blank	Total/NA	Water	200.8 LL	251846
LCS 550-251846/2-A	Lab Control Sample	Total/NA	Water	200.8 LL	251846
LCSD 550-251846/3-A	Lab Control Sample Dup	Total/NA	Water	200.8 LL	251846
550-169660-E-1-A MS	Matrix Spike	Total/NA	Water	200.8 LL	251846
550-169660-E-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	200.8 LL	251846

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Lab Chronicle

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

Job ID: 550-169691-1
SDG: Lordsburg Compressor Station

Client Sample ID: EPWW1-08-25-21

Lab Sample ID: 550-169691-1

Date Collected: 08/25/21 13:06

Matrix: Water

Date Received: 08/26/21 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			251846	08/30/21 06:35	SGO	TAL PHX
Dissolved	Analysis	200.8 LL		1	252188	09/01/21 11:24	ARE	TAL PHX

Laboratory References:

TAL PHX = Eurofins TestAmerica, Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

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Accreditation/Certification Summary

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

Job ID: 550-169691-1
SDG: Lordsburg Compressor Station

Laboratory: Eurofins TestAmerica, Phoenix

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

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

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Method Summary

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

Job ID: 550-169691-1
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 TestAmerica, Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

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Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 550-169691-1

SDG Number: Lordsburg Compressor Station

Login Number: 169691**List Number: 1****Creator: Gravlin, Andrea****List Source: Eurofins TestAmerica, Phoenix**

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing
America

ANALYTICAL REPORT

Eurofins Phoenix
4625 East Cotton Center Boulevard
Building #3 Suite #189
Phoenix, AZ 85040
Tel: (866)772-5227

Laboratory Job ID: 550-175978-1
Client Project/Site: EPNG/KM

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

Attn: Andrew Messer

Authorized for release by:
1/17/2022 3:37:50 PM

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



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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.

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Client: AECOM Technical Services Inc.
Project/Site: EPNG/KM

Laboratory Job ID: 550-175978-1

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Definitions/Glossary

Client: AECOM Technical Services Inc.
Project/Site: EPNG/KM

Job ID: 550-175978-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: EPNG/KM

Job ID: 550-175978-1

Job ID: 550-175978-1

Laboratory: Eurofins Phoenix

Narrative

**Job Narrative
550-175978-1**

Comments

No additional comments.

Receipt

The sample was received on 12/16/2021 3:30 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 was 0.3° 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.

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Sample Summary

Client: AECOM Technical Services Inc.
Project/Site: EPNG/KM

Job ID: 550-175978-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
550-175978-1	EPWW-1	Water	12/15/21 13:35	12/16/21 15:30

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Detection Summary

Client: AECOM Technical Services Inc.
Project/Site: EPNG/KM

Job ID: 550-175978-1

Client Sample ID: EPWW-1

Lab Sample ID: 550-175978-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	55		1.0		ug/L	1		200.8 LL	Dissolved

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This Detection Summary does not include radiochemical test results.

Eurofins Phoenix

Client Sample Results

Client: AECOM Technical Services Inc.
Project/Site: EPNG/KM

Job ID: 550-175978-1

Client Sample ID: EPWW-1

Lab Sample ID: 550-175978-1

Date Collected: 12/15/21 13:35

Matrix: Water

Date Received: 12/16/21 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	55		1.0		ug/L		12/17/21 09:01	01/13/22 18:20	1

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QC Sample Results

Client: AECOM Technical Services Inc.
Project/Site: EPNG/KM

Job ID: 550-175978-1

Method: 200.8 LL - Metals (ICP/MS)

Lab Sample ID: MB 550-261443/1-A
Matrix: Water
Analysis Batch: 263539

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 261443

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		1.0		ug/L		12/17/21 09:01	01/13/22 18:03	1

Lab Sample ID: LCS 550-261443/2-A
Matrix: Water
Analysis Batch: 263539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 261443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	100	108		ug/L		108	85 - 115

Lab Sample ID: LCSD 550-261443/3-A
Matrix: Water
Analysis Batch: 263539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 261443

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	100	109		ug/L		109	85 - 115	1	20

Lab Sample ID: 550-175956-E-1-A MS ^100
Matrix: Water
Analysis Batch: 263539

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 261443

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	ND		100	109		ug/L		109	70 - 130

Lab Sample ID: 550-175956-E-1-B MSD ^100
Matrix: Water
Analysis Batch: 263539

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 261443

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	ND		100	109		ug/L		109	70 - 130	1	20

Lab Sample ID: MB 550-261300/1-B
Matrix: Water
Analysis Batch: 263539

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 261443

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		1.0		ug/L		12/17/21 09:01	01/13/22 18:22	1

QC Association Summary

Client: AECOM Technical Services Inc.
Project/Site: EPNG/KM

Job ID: 550-175978-1

Metals

Filtration Batch: 261300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 550-261300/1-B	Method Blank	Dissolved	Water	Filtration	

Prep Batch: 261443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-175978-1	EPWW-1	Dissolved	Water	200.8	
MB 550-261300/1-B	Method Blank	Dissolved	Water	200.8	261300
MB 550-261443/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-261443/2-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-261443/3-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-175956-E-1-A MS ^100	Matrix Spike	Total/NA	Water	200.8	
550-175956-E-1-B MSD ^100	Matrix Spike Duplicate	Total/NA	Water	200.8	

Analysis Batch: 263539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-175978-1	EPWW-1	Dissolved	Water	200.8 LL	261443
MB 550-261300/1-B	Method Blank	Dissolved	Water	200.8 LL	261443
MB 550-261443/1-A	Method Blank	Total/NA	Water	200.8 LL	261443
LCS 550-261443/2-A	Lab Control Sample	Total/NA	Water	200.8 LL	261443
LCSD 550-261443/3-A	Lab Control Sample Dup	Total/NA	Water	200.8 LL	261443
550-175956-E-1-A MS ^100	Matrix Spike	Total/NA	Water	200.8 LL	261443
550-175956-E-1-B MSD ^100	Matrix Spike Duplicate	Total/NA	Water	200.8 LL	261443

Lab Chronicle

Client: AECOM Technical Services Inc.
Project/Site: EPNG/KM

Job ID: 550-175978-1

Client Sample ID: EPWW-1

Lab Sample ID: 550-175978-1

Date Collected: 12/15/21 13:35

Matrix: Water

Date Received: 12/16/21 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			261443	12/17/21 09:01	SGO	TAL PHX
Dissolved	Analysis	200.8 LL		1	263539	01/13/22 18:20	ARE	TAL PHX

Laboratory References:

TAL PHX = Eurofins Phoenix, 4625 East Cotton Center Boulevard, Building #3 Suite #189, Phoenix, AZ 85040, TEL (866)772-5227

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Accreditation/Certification Summary

Client: AECOM Technical Services Inc.
Project/Site: EPNG/KM

Job ID: 550-175978-1

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

- 1
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Method Summary

Client: AECOM Technical Services Inc.
Project/Site: EPNG/KM

Job ID: 550-175978-1

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, Building #3 Suite #189, Phoenix, AZ 85040, TEL (866)772-5227

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Login Sample Receipt Checklist

Client: AECOM Technical Services Inc.

Job Number: 550-175978-1

Login Number: 175978

List Number: 1

Creator: Maycock, Lisa

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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FIELD NOTES

EPNG GROUNDWATER SAMPLING

WELL EPWV-1

GROUNDWATER SAMPLING INFORMATION SHEET

Date: <u>03/23/2021</u>	Measuring Point: <u>NA</u>
Owner/Site: <u>KM EL PASO NATURAL GAS</u>	Depth To Water (Ft): DTW= <u>NM</u>
Job Number: <u>60597666</u>	Depth To Well Bottom (ft): TD= <u>NM</u>
Sampler(s): <u>RACHEL TUCCI</u>	Well Diameter (in): D=
Weather: <u>BLUE SKY MINIMAL CLOUDS</u>	3 Casing Volumes (Gal)=D ² *(TD-DTW)*0.12=
Comments: <u>TO NORTH</u>	Drawdown (ft):=

INSTRUMENTATION

YSI Sonde Multi-Parameter Meter

Calibration Completed Date/Time: <u>03/19/2021</u>	<u>03/23/2021</u> FIELD CHECKED T= <u>21.50</u>
Conductivity Meter: (1,413 μS/cm = 1.413 mS/cm)	Calibration Std/Reading: <u>1116 Ms/cm</u>
pH Meter: <u>7.0</u>	Calibration Std/Reading: <u>7.90</u>
ORP Meter: Platinum Electrode	Calibration Std/Reading:
DO Meter: DO Charge:	Calibration Std/Reading:
Temperature Meter:	Water Level Meter:

PURGE WATER MEASUREMENTS

Purge Method: Dedicated Pump Bailer Other: _____ Pump on: 1005 Pump off: 1238 ^{NM TIME}
 Disposal of Purge Water: Portable tank GAC Baker Tank Other: TANK ON SITE

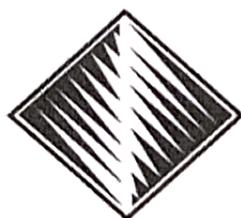
Time	Purge Rate (gpm)	Gallons Purged	Temp °C	Cond μS/cm	DO mg/L	pH	ORP mV (field meter)	Turbidity (NTU)	Remarks (color, clarity, odor)
1217		9800	24.00	457	3.74	9.66	65.4	189	NO COLOR, NO ODOR
1221		10100	24.10	459	3.59	9.67	69.0	121	
1226		10300	24.00	455	3.52	9.66	63.7	106	
1230		10500	23.70	413	3.60	9.68	69.7	21.9	COLLECTED SAMPLE
1235		10700	23.70	413	3.60	9.68	69.7	21.9	AFTER SAMPLE

SAMPLING INFORMATION

Sampling Method (Circle Selection): Bailer Sampling Pump Dedicated Pump Other: _____

Sample ID	Time	Container	Pres. ¹	Analysis	Remarks
<u>EPWV-1-03-23-21</u>	<u>1230</u>	<u>2x250mL poly</u>	<u>HNO₃</u>	<u>DIS Cr.</u>	<u>FIELD FILTERED</u>

¹Samples taken in pre-preserved bottles (as needed) and immediately chilled on ice.



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 Local (412) 436-2600
 Fax (412) 436-2616

AquaRead Calibration Certificate

Cal Standard	Lot #	Expiration	Pre-Cal Reading	Post-Cal Reading	Acceptable Range
PH 7 @ 25 ^C	8009698	10/14/2022	7.02	7.00	(6.86 to 7.14)
			pH mV value		-13.4

Cal Standard	Lot #	Expiration	Pre-Cal Reading	Post-Cal Reading	Acceptable Range
PH 4 @ 25 ^C	8009373	9/3/2022	3.67	4.00	(3.92 to 4.08)
			PH Slope (mV)		53.00

Cal Standard	Lot #	Expiration	Pre-Cal Reading	Post-Cal Reading	Acceptable Range
PH 10 @ 25 ^C	7008154	8/21/2022	10.12	10.00	(9.80 to 10.20)
			PH Slope (mV)		53.40

Cal Standard	Lot #	Expiration	Pre-Cal Reading	Post-Cal Reading	Acceptable Range
Conductivity	8011203	11/24/2022	1.315	1.409	(1.338 to 1.479)

Dissolved Oxygen

	Pre-Cal Reading	Post-Cal Reading	
100% Saturation	9.57	9.31	mg/L
	Gain	1.10	Acceptable Range > 20 (0.8-1.5 ODO)
Check Standard ORP	Temp °C	Relative Reading	Acceptable Range (+/- 20mV)
	17.8	244.0	
	mV Offset	24.0	
Turbidity	Pre-Cal Reading	Post-Cal Reading	Acceptable Range
	0 NTU	0.0	+/- 10%
	1000 NTU	1011.0	+/- 10%

Model	AquaRead AP2000D	Calibrated By	Paolo Francisco
Cable Length	3 Meter	Date of Calibration	3/19/2021
Sonde SN	U119090220X		
Handheld SN	U118891727X		
Barcode	U93612X		
Order #	451486		

*Solutions provided by LabChem (412-826-5230)

All calibrations performed by FEI conform to manufacturer's specifications. Please report any issues within 24 hours of receiving equipment.
 All calibration solutions used are traceable to NIST. Additional documentation is available upon request.

EPNG GROUNDWATER SAMPLING

WELL EPWN-1-060921

GROUNDWATER SAMPLING INFORMATION SHEET

Date: <u>06/09/2021</u>	Measuring Point: <u>NA</u>
Owner/Site: <u>KM EL PASO NATURAL GAS</u>	Depth To Water (Ft): <u>DTW= NOT MEASURED</u>
Job Number: <u>60597666</u>	Depth To Well Bottom (ft): <u>TD= NOT MEASURED</u>
Sampler(s): <u>RACHEL NECI</u>	Well Diameter (in): <u>D=</u>
Weather: <u>WARM, HIGH CLOUDS, SLIGHT BREEZE</u>	3 Casing Volumes (Gal)= $D^2*(TD-DTW)*0.12=$
Comments:	Drawdown (ft):=

INSTRUMENTATION

MYRON 2 ULTRAMETER
~~YSI Sonde Multi-Parameter Meter~~ FROM RENTAL CERTIFICATE

Calibration Completed Date/Time: <u>06/07/2021</u>	
Conductivity Meter: (1.413 μ S/cm = 1.413 mS/cm)	Calibration Std/Reading: <u>1409</u>
pH Meter:	Calibration Std/Reading: <u>9.00 / 7.00 / 10.00</u>
ORP Meter: Platinum Electrode	Calibration Std/Reading: <u>236</u>
DO Meter:	DO Charge:
Temperature Meter: <u>21.2 °C</u>	Water Level Meter: <u>NA</u>

PURGE WATER MEASUREMENTS

Purge Method: Dedicated Pump Bailer Other: _____ Pump on: 1000 Pump off: _____
 Disposal of Purge Water: Portable tank GAC Baker Tank Other: TANK ON SITE ^{NM TIME}

Time	Purge Rate (gpm)	Gallons Purged	Temp °C	Cond μ S/cm	DO mg/L	pH	ORP mV (field meter)	Turbidity (NTU)	Remarks (color, clarity, odor)
1133		8100	25.7	446.7		6.28	182	313.0	NO COLOR / NO ODOR
1138		8300	24.7	441.9		7.18	177	307.5	
1143		8600	24.7	437.7		7.29	169	306.9	
1148		8800	24.4	442.8		7.51	161	308.5	
1153		9100	24.5	442.3		7.63	153	307.6	
1158		9300	24.4	442.6		7.76	145	308.3	
1203		9600	24.4	442.7		7.78	143	308.9	
1208		9800	24.4	442.9		7.78	141	308.4	
1212		10000	24.4	442.5		7.78	139	308.3	COLLECT SAMPLE
1219		10400	24.9	443.0		7.89	132	308.1	POST SAMPLE

SAMPLING INFORMATION

Sampling Method (Circle Selection): Bailer Sampling Pump Dedicated Pump Other: _____

Sample ID	Time	Container	Pres. ¹	Analysis	Remarks
EPWN-1-060921	12M	500mL PLY	HNO ₃	PIS Cr.	FIELD FILTERED

¹Samples taken in pre-preserved bottles (as needed) and immediately chilled on ice.



FIELD ENVIRONMENTAL INSTRUMENTS, INC.

www.fieldenvironmental.com

301 Brushton Ave
 Suite A
 Pittsburgh, PA 15221
 Toll Free (800) 393-4009
 Local (412) 436-2600
 Fax (412) 436-2616

pH/Con/Temp Meter Calibration Certificate

Cal Standard	Lot #	Expiration	Pre Cal Reading	Acceptable Range
PH 4 @ 25 ^C	8009590	10/9/2022	4.13	(3.85 - 4.15)
		Post-Cal	4.00	

Cal Standard	Lot #	Expiration	Pre Cal Reading	Acceptable Range
PH 7 @ 25 ^C	8009698	10/14/2022	7.81	(6.85 - 7.15)
		Post-Cal	7.00	

Cal Standard	Lot #	Expiration	Pre Cal Reading	Acceptable Range
PH 10 @ 25 ^C	7008154	8/12/2022	10.34	(9.85 - 10.15)
		Post-Cal	10.00	

Cal Standard	Lot #	Expiration	Reading umho/cm	Acceptable Range
Conductivity	8011203	11/24/2022	1477	(1394 - 1423)
		Post-Cal	1409.00	

Check Standard	Temp ©	Relative Reading	Acceptable Range
ORP	21.2	236.0	(+/- 20mV)

*Solutions provided by LabChem (412-826-5230)

Model: Myron L Ultrameter

Cable Length:

S/N: 6237933

Barcode: U83412X

Order #: 457846

Calibrated By: Allan Miller

All calibrations performed by Field Environmental Instruments, Inc. to manufacturer's specifications. Please report any issues within 24 hours of receiving equipment.

All calibration solutions used are traceable to NIST. Additional documentation is available upon request.

EPNG GROUNDWATER SAMPLING

WELL EPWN1

GROUNDWATER SAMPLING INFORMATION SHEET

Date: <u>8-25-2021</u>	Measuring Point:
Owner/Site: <u>LORDS BURG STATION</u>	Depth To Water (Ft): DTW=
Job Number:	Depth To Well Bottom (ft): TD= <u>NA</u>
Sampler(s):	Well Diameter (in): D=
Weather: <u>CLEAR, HOT</u>	3 Casing Volumes (Gal)=D ² *(TD-DTW)*0.12=
Comments:	Drawdown (ft):=

MYRON ULTIMETER

INSTRUMENTATION

~~YSI Sonde Multi-Parameter Meter~~

4.0/3.64 Post CAL = 4.00
 7.0/7.13 " " = 7.01
 10/10.14 " " = 10.00

Calibration Completed Date/Time:		Calibration Std/Reading: <u>1409/1217 Post CAL = 1402</u>
Conductivity Meter: (1,413 µS/cm = 1.413 mS/cm)		Calibration Std/Reading:
pH Meter:		Calibration Std/Reading:
ORP Meter: Platinum Electrode		Calibration Std/Reading:
DO Meter:	DO Charge:	Calibration Std/Reading:
Temperature Meter:		Water Level Meter:

PURGE WATER MEASUREMENTS

Purge Method: Dedicated Pump Bailer Other: _____ Pump on: _____ Pump off: _____
 Disposal of Purge Water: Portable tank GAC Baker Tank Other: SITE TANK

MDT Time	Purge Rate (gpm)	Gallons Purged	Temp °C	Cond µS/cm	DO mg/L	pH	ORP mV (field meter)	Turbidity (NTU)	Remarks (color, clarity, odor)
10:00									
11:40	50	3294	26.3	468.6		9.12	79		CLEAR
12:50			26.6	458.3		9.03	91		"
12:55			26.4	452.7		9.98	100		"
13:00			26.3	459.9		9.02	103		"
13:05			26.1	459.3		9.00	108		
13:06									SAMPLE

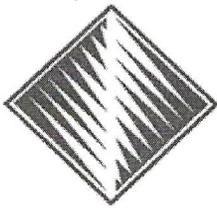
18219 ⁷⁶
 18302 ⁷⁰
 18308 ⁹⁰
 18316 ⁰⁰

SAMPLING INFORMATION

Sampling Method (Circle Selection): Bailer Sampling Pump Dedicated Pump Other: _____

Sample ID	Time	Container	Pres. ¹	Analysis	Remarks
EPWN-1	13:06	2x250ml	NO3	Diss CR 200.8	FIELD FILTERED
EPWN-08-25-21					

¹Samples taken in pre-preserved bottles (as needed) and immediately chilled on ice.



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pH/Con/Temp Meter Calibration Certificate

Cal Standard	Lot #	Expiration	Pre Cal Reading	Acceptable Range
PH 4 @ 25 ^C	8009373	10/9/2022	3.94	(3.85 - 4.15)
		Post-Cal	4.00	

Cal Standard	Lot #	Expiration	Pre Cal Reading	Acceptable Range
PH 7 @ 25 ^C	8009698	10/14/2022	7.10	(6.85 - 7.15)
		Post-Cal	7.00	

Cal Standard	Lot #	Expiration	Pre Cal Reading	Acceptable Range
PH 10 @ 25 ^C	7008154	8/21/2022	10.00	(9.85 - 10.15)
		Post-Cal	10.00	

Cal Standard	Lot #	Expiration	Reading umho/cm	Acceptable Range
Conductivity	8011203	11/24/2022	1562	(1394 - 1423) ▼
		Post-Cal	1409.00	

Check Standard	Temp ©	Relative Reading	Acceptable Range
ORP	16.3	7.0	(+/- 20mV)

*Solutions provided by LabChem (412-826-5230)

Model	Myron L Ultrameter ▼
Cable Length	▼
S/N	6233525
Barcode	U81120X
Order #	464088

Calibrated By Paolo Francisco ▼

All calibrations performed by Field Environmental Instruments, Inc. conform to manufacturer's specifications. Please report any issues within 24 hours of receiving equipment.

All calibration solutions used are traceable to NIST. Additional documentation is available upon request.

EPNG GROUNDWATER SAMPLING

WELL EPWN-1
LORDSBURG STATION

GROUNDWATER SAMPLING INFORMATION SHEET

Date: <u>12-15-2021</u>	Measuring Point: <u>NOT MEASURED NO ACCESS TO</u>
Owner/Site: <u>LORDSBURG STATION</u>	Depth To Water (Ft): DTW=
Job Number:	Depth To Well Bottom (ft): TD=
Sampler(s):	Well Diameter (in): D=
Weather: <u>PTLY CLOUDY, WINDY 40s</u>	3 Casing Volumes (Gal)=D ² *(TD-DTW)*0.12=
Comments:	Drawdown (ft):=

INSTRUMENTATION

MYRON L ULTRAMETER II
 YSI Sonde Multi-Parameter Meter

Calibration Completed Date/Time:		Calibration Std/Reading: <u>1397 → 1409 μS/cm</u>
Conductivity Meter: (1,413 μS/cm = 1.413 mS/cm)		Calibration Std/Reading: <u>7.04 → 7.0 10.1/10.0 4.0/4.0</u>
pH Meter:		Calibration Std/Reading:
ORP Meter: Platinum Electrode		Calibration Std/Reading:
DO Meter:	DO Charge:	Calibration Std/Reading:
Temperature Meter:		Water Level Meter:

PURGE WATER MEASUREMENTS

Purge Method: Dedicated Pump Bailer Other: _____ Pump on: 10:15 Pump off: _____
 Disposal of Purge Water: Portable tank GAC Baker Tank Other: SITE STORAGE TANK 18324²⁸

<u>MST</u> Time	Purge Rate (gpm)	Gallons Purged	Temp °C	Cond μS/cm	DO mg/L	pH	ORP mV (field meter)	Turbidity (NTU)	Remarks (color, clarity, odor)
<u>11:43</u>	<u>45</u>		<u>22.0</u>	<u>462.0</u>		<u>8.15</u>	<u>81</u>		
<u>12:08</u>			<u>21.9</u>	<u>472/468.3</u>		<u>8.77</u>	<u>68</u>		
<u>12:15</u>	<u>~44</u>		<u>22.8</u>	<u>462.0</u>		<u>8.95</u>	<u>52</u>		<u>TOTALIZER STOPPED</u>
<u>12:30</u>			<u>23.4</u>	<u>461.5</u>		<u>8.70</u>	<u>58</u>		<u>METER IN CONTINUOUS STREAM</u>
<u>12:45</u>			<u>23.4</u>	<u>460.8</u>		<u>8.76</u>	<u>48</u>		"
<u>13:00</u>			<u>23.4</u>	<u>461.2</u>		<u>8.77</u>	<u>52</u>		"
<u>13:15</u>			<u>23.5</u>	<u>460.9</u>		<u>8.90</u>	<u>39</u>		"
<u>13:30</u>			<u>23.5</u>	<u>461.0</u>		<u>8.88</u>	<u>38</u>		"
<u>13:35</u>									<u>SAMPLE</u>

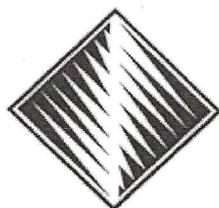
9000 GAL / 45 GPM = 200 MIN

SAMPLING INFORMATION

Sampling Method (Circle Selection): Bailer Sampling Pump Dedicated Pump Other: _____

Sample ID	Time	Container	Pres. ¹	Analysis	Remarks
		<u>250 ML X 2</u>	<u>HNO₃</u>	<u>DISSC</u> <u>200.8</u>	<u>FIELD FILTERED</u>

¹Samples taken in pre-preserved bottles (as needed) and immediately chilled on ice.



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pH/Con/Temp Meter Calibration Certificate

Cal Standard	Lot #	Expiration	Pre Cal Reading	Acceptable Range
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		Post-Cal	4.00	

Cal Standard	Lot #	Expiration	Pre Cal Reading	Acceptable Range
PH 7 @ 25 ^C	8009698	10/14/2022	7.06	(6.85 - 7.15)
		Post-Cal	7.00	

Cal Standard	Lot #	Expiration	Pre Cal Reading	Acceptable Range
PH 10 @ 25 ^C	7008154	8/21/2022	11.02	(9.85 - 10.15)
		Post-Cal	10.00	

Cal Standard	Lot #	Expiration	Reading umho/cm	Acceptable Range
Conductivity	8011203	11/24/2022	1463	(1394 - 1423) ▼
		Post-Cal	1409.00	

Check Standard	Temp ©	Relative Reading	Acceptable Range
ORP	18.5	236.0	(+/- 20mV)

*Solutions provided by LabChem (412-826-5230)

Model	Myron L Ultrameter ▼
Cable Length	▼
S/N	6245752
Barcode	U86306X
Order #	473437

Calibrated By Paolo Francisco ▼

All calibrations performed by FEI conform to manufacturer's specifications. Please report any issues within 24 hours of receiving equipment.
All calibration solutions used are traceable to NIST. Additional documentation is available upon request.

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

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

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

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 119097

CONDITIONS

Operator: El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	OGRID: 7046
	Action Number: 119097
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Accepted for the record. Please see App ID 202436 for most updated status.	5/22/2023