

Site Information

Closure Report Hanagan APL Federal Com #3H Eddy County, New Mexico Unit M Sec 31 T19S R30E 2RP-2239 32.61749°, -104.019409°

Brine Water Release Source: drill stem during drilling operations. Release Date: 1/16/2014 Volume Released: 75 bbls/BW Volume Recovered: 55 bbls/BW

> Prepared for: EOG Resources 5509 Champions Dr. Midland, TX 79706

Prepared by: NTG Environmental 701 Tradewinds Blvd Suite C Midland, TX 79706



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APPENDIX C	LABORATORY ANALYTICAL REPORTS



701 Tradewinds Boulevard, Suite C Midland, Texas 79706 Tel. 432.685.3898 www.ntglobal.com

May 12, 2021

Mr. Bradford Billings New Mexico Oil Conservation Division 5200 Oakland Ave N.E Suite100 Albuquerque, NM 87113

Re: Closure Report Hanagan APL Federal Com #3H 2RP-2239 EOG Resources Inc. Site Location: Unit M, S31, T19S, R30E (Lat 32.61749°, Long -104.019409°) Eddy County, New Mexico

To whom it may concern:

On behalf of EOG Resources Inc. (EOG), New Tech Global Environmental, LLC (NTGE) has prepared this letter to document site assessment activities for the Hanagan APL Federal Com #3H 2RP-2239. The site is located at 32.61749 °, -104.019409° within Unit M, S31, T19S, R30E, and approximately 27.25 miles southeast of Artesia, New Mexico, in Eddy County (Figures 1 and 2).

Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the leak was discovered on January 1, 2014. It resulted in the release of approximately 75 barrels of brine water being released during drilling operations. The crew onsite was utilized using squeegees to push fluids to a nearby flow ditch to the well cellar, and 55 barrels of liquids were recovered. The impacted area measured approximately 95' x 55', as shown on Figure 3. The initial C-141 form is attached in Appendix A.

Site Characterization

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineer's and USGS databases, there is one known water source within ½ miles radius of the location. The nearest identified well is located approximately 0.22 miles northeast of the site within S31, T19S, R30E. The well has a reported depth to groundwater of 115 feet below ground surface (ft bgs). A copy of the associated *Point of Diversion Summary* report is attached in Appendix B.

Regulatory Criteria

In accordance with the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing the site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 100 mg/kg (GRO + DRO + MRO).
- Chloride 600 mg/kg

Site Assessment

On April 12, 2021, NTGE conducted site assessment activities to assess soil impacts resulting from the release. A total of seven sample points were advanced to depths ranging 0 - 2.5 ft bgs within and surrounding the release area to assess the vertical and horizontal extent of potential impacts. The soil sample locations are shown on figure 3.

The soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Xenco Laboratories in Midland, Texas, for chemical analysis. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015 modified, benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports containing analytical methods, results, and chain-of-custody documents are attached in Appendix C. The analytical results are provided in Table 1.

All samples are below the NMOCD regulatory criteria for TPH, benzene, BTEX, and chloride based on the analytical results.

Conclusions

Based on the finding of the assessment and the analytical results, no further actions are required at the site. The final C-141 is attached, and EOG formally requests closure of the spill. If you have any questions regarding this report or need additional information, please contact us at 432-813-0263.

Sincerely, NTG Environmental

Mike Carmona Senior Project Manager

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Figures

Released to Imaging: 1/19/2023 9:32:21 AM



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Tables

Released to Imaging.					Ė	Hanaga Eddy	Table 1 EOG Resources nagan APL Federal Com #3H Eddy County, New Mexico	rces ral Com #3F w Mexico			;		Received by OCD: 1 1/
Sample ID	ID Date		Sample Depth (ft)	GRO	DRO	MRO	Total	benzene (mg/kg)	i oluene (mg/kg)	Etniypenzene (mg/kg)	Aylene (mg/kg)	(mg/kg)	Chloride (mg/kg)
023	4/12/2021	2021	0-1	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	193
9:3	=		1-1.5	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	278
2.2	-		2-2.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	184
HAN	4/12/2021	2021	0-1	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	17.5
S-2	=		1-1.5	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00202	13.4
	-		2-2.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	28.6
	4/12/2021	2021	0-1	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00198	382
S-3	=		1-1.5	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	507
	=		2-2.5	56.8	<49.8	<49.8	56.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	510
H-1	4/12/2021	2021	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	199
H-2	4/12/2021	2021	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	91.5
Н-3	4/12/2021	2021	0-0.5	57.5	<49.8	<49.8	57.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	282
H-4	4/12/2021	2021	0-0.5	52.5	<49.9	<49.9	52.5	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	373
	Regulatory Limits	its					100 mg/kg	10 mg/kg		T	1	50 mg/kg	600 mg/kg
	(-) Not Analyzed	75											

A - Table 1 - 19.15.29 NMAC

TPH- Total Petroleum Hydrocarbons mg/kg - milligram per kilogram

ft-feet



Photo Log

PHOTOGRAPHIC LOG

EOG Resources

Photograph No. 1

Facility: Hanagan APL Federal Com #3H

County: Eddy County, New Mexico

Description: View of sampled release area.



Photograph No. 2

Facility:Hanagan APL Federal Com #3H

County: Eddy County, New Mexico

Description:

View of sampled release area.



Photograph No. 3

Facility: Hanagan APL Federal Com #3H

County: Eddy County, New Mexico

Description: View of sampled release area.









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District I 1025 N. French Dr., Hobbs, NM 88240 District III 1301 W. Grand Avenue, Artesia, NM 88210 District IIII 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1230 S. St. Francis Dr., Santa Fe, NM 87505 NHMP 1409 130181 Name of Company	Energy Mine Oil Co 1220 S San Release Notifica	nser outh ta Fe	vation Div St. Franc , NM 875	l Resources rision is Dr. 05	J, NMO Action	AN 28	2014 Submit 2 C	Form C-141 sed October 10, 2003 opies to appropriate ffice in accordance h Rule 116 on back side of form
	OGRID Numb	er	Contact					
Yates Petroleum Corporation	25575		Chase Settle					
104 S. 4 TH Street			Telephone N 575-748-413					
Facility Name	API Number		Facility Typ	the second se				
Hanagan APL Federal Com #3-H	30-015-39801		Battery					
Surface Owner Federal	Mineral Ow Federal	ner				Lease 1 NM-62		
LOCATION OF RELEASE								
Unit Letter Section Township Ra			South Line	Feet from the	East/V	Vest Line	County]
M 31 198 3	0E 660	5	South	180	\	West	Eddy	
	Latitude 32.61	140	Longitude	-104.01875	<u></u>		1	
NATURE OF RELEASE								
Type of Release			Volume of	Release			Recovered	
Brine Water Source of Release			75 B/BW Date and H	our of Occurre	nce	55 B/BW Date and	Hour of Disc	overv
Drilling operations			01/16/2014	; AM		01/16/20		
Was Immediate Notice Given?	s 🗌 No 🗌 Not Requ	ired	If YES, To Mike Brate	Whom? her, Randy Dao	le, Jim Ar	nos		
By Whom? Robert Asher	,		Date and H 01/17/2014					
Was a Watercourse Reached?			If YES, Vo	lume Impacting	g the Wate	ercourse.		
Ye It'a Watercourse was Impacted, Describe F	s 🛛 No		N/A				···	·····
N/A Describe Cause of Problem and Remedial Action Taken.*								
During drilling operations an air pocket caused a release of brine water by forcing the fluid back up the drill stem. Crews used squeegees to push fluid to the nearest flow ditches to the well cellar in order to collect the brine water and transport back to pits. Describe Area Affected and Cleanup Action Taken.* An approximate area of 95' X 55' around the drill stem. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 10) a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL a work plan will be submitted to the OCD. Depth to Ground Water: 50-99' (70', Section 31, T19S-R30E, Chevron Texaco Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: > 1000', SITE RANKING IS 10. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other								
Icderal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION								
Signature: Approved by District Supervisor:								
Printed Name: Chase Settle		-	vpproved by	District Superv	isor: H	~6	n	
Litle: NM Environmental Regulatory Supe	rvisor		Approval Date	: <u>4-1-1</u>	14 1	Expiration	Date: NA	7
E-mail Address: csettle@yatespetroleum.co	om		Conditions of	Approval:			Attached	
Date: Tuesday, January 28, 2014 P	hone: 575-748-4171	' ł	Remediatio	on per OCD	Rule &		/ machen	. I
Attach Additional Sheets If Necessary	1010, 373-710-4171	Gui	delines. <mark>SL</mark> PROPOSAL	IBMIT REMI NO LATER	EDIATIC	DN	2RP	-2239

Bratcher, Mike, EMNRD

From:	Chase Settle <csettle@yatespetroleum.com></csettle@yatespetroleum.com>
Sent:	Tuesday, January 28, 2014 1:10 PM
То:	Bratcher, Mike, EMNRD; Duncan Whitlock (dwhitloc@blm.gov)
Cc:	Bob Asher; jamos@blm.gov
Subject:	Hanagan APL Federal Com. #3-H C141
Attachments:	C141 Hanagan APL Fed Com #3-H (1-28-14 Initial).pdf

Mr. Bratcher,

Please find attached the C141 Initial for the release mentioned below.

Hanagan APL Federal Com. #3-H 30-015-39801 Section 31, T19S-R30E Eddy County, New Mexico

Released: Approximately 75 B/Brine Water; Recovered: 55 B/Brine Water

Thanks,

Chase Settle Environmental Regulatory Agent Yates Petroleum Corporation 105 S. 4th Street Artesia, NM 88210 575-748-4171 (Office) 575-703-6537 (Cell)

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Bratcher, Mike, EMNRD

From:	Bob Asher <boba@yatespetroleum.com></boba@yatespetroleum.com>
Sent:	Friday, January 17, 2014 8:58 AM
To:	Bratcher, Mike, EMNRD; Dade, Randy, EMNRD; jamos@blm.gov
Cc:	Amber Cannon; Chase Settle; Katie Parker; Lupe Carrasco
Subject:	Release (Hanagan APL Federal Com. #3-H)
Subject:	Release (Hanagan APL Federal Com. #3-H)

Yates Petroleum Corporation is reporting a release at the following location (1/16/2014).

Hanagan APL Federal Com. #3-H 30-015-39801 Section 31, T19S-R30E Eddy County, New Mexico

Released: Approximately 75 B/Brine Water; Recovered: 55 B/Brine Water

Release of brine water occurred during drilling operations. Vacuum truck(s) were called.

A Form C-141 Initial will be submitted with complete information.

Thank you.

Robert Asher

NM Environmental Regulatory Supervisor

Yates Petroleum Corporation 105 S. 4th Street Artesia, NM 88210 575-748-4217 (Office) 575-365-4021 (Cell)

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Received by OCD: 11/19/2021 9:50:20 AM Form C-141 State of New Mexico

Oil Conservation Division

		Page 17 of 78
Incident ID		
District RP	2RP-2239	
Facility ID		
Application ID		

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>115</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🖌 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🖌 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🖌 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🖌 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🖌 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🖌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🖌 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🖌 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🖌 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🖌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🖌 No
Did the release impact areas not on an exploration, development, production, or storage site?	🖌 Yes 🗌 No

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

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

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

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

Page 3

Received by OCD: 11/19/2021 9: Form C-141	50:20 AM			Page 18 of 78
			Incident ID	
Page 4	Oil Conservation Division		District RP	2RP-2239
			Facility ID	
			Application ID	
regulations all operators are require public health or the environment. T failed to adequately investigate and addition, OCD acceptance of a C-1- and/or regulations. Printed Name: James Kennedy Signature:		ifications and perform co OCD does not relieve the eat to groundwater, surfa	prrective actions for rele operator of liability sh ce water, human health iance with any other fe Specialist	eases which may endanger ould their operations have or the environment. In
OCD Only				
Received by:		Date:		

Page 6

Oil Conservation Division

Incident ID	
District RP	2RP-2239
Facility ID	
Application ID	

Closure

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

<u>Closure Report Attachment Checklist</u>: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

Description of remediation activities

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

Printed Name: JAmes Kennedy	Title: Environmental Specialist
Signature:	Date: <u>5/13/2021</u>
email: James_Kennedy@eogresources.com	Telephone: 432.848.9146
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by: Hall	Date:1/19/2023

Printed Name: Brittany Hall

Title: Environmental Specialist



Appendix B





Received by OCD: 11/19/2021 9:50:20 AM

Water Resources of the United States—National Water Information System (NWIS) Mapper

4/18/2021

11





New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	been O=or	OD has replaced ohaned, e file is d)	(quar						IE 3=SW largest)	,	3 UTM in meters)		(In feet	:)
POD Number	Code	POD Sub- basin (County		Q 16		Sec	Tws	Rng	х	Y			Water Column
CP 00357 POD1		СР	ED					19S	-	600667	3612631* 🌍	630		
CP 00357 POD2		CP	ED	4	3	1	24	19S	30E	600265	3612627* 🌍	630		
CP 00522		CP	ED			3	30	19S	30E	592347	3610451* 🌍	120	90	30
CP 00647 POD1	0	СР	ED	4	2	2	15	19S	30E	598235	3614621* 🌍	200	92	108
CP 00722 POD2		CP	ED	2	1	1	25	19S	30E	600276	3611620* 🌍	350	65	285
<u>CP 00742</u>		CP	ED		3	3	31	19S	30E	592208	3608940 🌍	223	115	108
CP 00822 POD1		СР	LE		4	4	15	19S	30E	598148	3613516* 🌍	90		
CP 00823 POD1		CP	LE		1	3	17	19S	30E	593715	3613885* 🌍	120		
CP 00824 POD1		СР	LE		4	1	20	19S	30E	594129	3612680* 🌍	70		
CP 00825 POD1		CP	LE		3	4	28	19S	30E	596164	3610282* 🌍	100		
CP 00827 POD1		CP	LE		3	3	35	19S	30E	598596	3608694* 🌍	100		
CP 00828 POD1		CP	LE		1	1	35	19S	30E	598585	3609900* 🌍	90		
											Average Depth to	Water:	90 f	eet
											Minimum	Depth:	65 f	eet
											Maximum	Depth:	115 f	eet

Record Count: 12

PLSS Search:

Township: 19S

Range: 30E

*UTM location was derived from PLSS - see Help

Released to Imaging: 1/19/2023 9:32:21 AM

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New Mexico Office of the State Engineer Point of Diversion Summary

			(quarters a					JTM in meters)		
Well Tag	• •			to largest) (1 c Tws Rng		(NAD83 C	Y Y			
, en rug	-	Number 00522	QUIQI	3	30	19S	0	592347		
x Driller Lic	ense:	208	Driller Co	ompa	ny:	VA	N NOY	, W.L.		
Driller Na	me:	VAN NOY, W.L.								
Drill Start	Date:	08/28/1973	Drill Fini	sh Da	te:	0	9/01/19	73 P	lug Date:	
Log File D	ate:	09/08/1975	PCW Rev	v Date	e:			S	ource:	Shallow
Pump Type	e:		Pipe Disc	harge	e Size	:		E	l :	
Casing Size: 6.63			Depth We	Depth Well:				D	Depth Water:	
X	Wate	er Bearing Stratifica	ations:	Te	op E	Botton	Desc	ription		
				(90	120) Sand	stone/Grave	el/Conglomerat	e
X		Casing Perfor	ations:	Te	op E	Bottom				
				(90	115				

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/20/21 5:33 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer **Point of Diversion Summary**

Well Tag POD Number CP Q64 Q16 Q4 See Tay A Y S 3 3 3 1 95 302 592208 3608940 Image: Second S							2=NE 3=S' st to larges		(NAD8	3 UTM in meter	e)	
CP 00742 3 3 1 198 30E 592208 3608940 Driller License: 421 Driller Company: GLENN'S WATER WELL SERVICE Driller Name: GLENN, CLARK A."CORKY" (LD) Butter State 08/04/1989 Plug Date: Source: Shallow Dill Start Date: 08/04/1989 PCW Rev Date: Source: Shallow Dig Ble Date: 08/04/1989 PCW Rev Date: Source: Shallow Pump Type: Pipe Discharge Size: Estimated Vield: 150 GPM Casing Size: 6.63 Depth Well: 223 feet Depth Water: 115 feet Water Bearing Stratifications: Top Bottom Description Interstone/Dolomite/Chalk 181 213 Limestone/Dolomite/Chalk Water Serial Number: 18297 Meter Make: OCTAVE Meter Serial Number: 16203182 Meter Multiplite: Low00 Number of Dials: 9 Meter Type: Diversion 3.264 3.264 00/63/2017 2017 11523284 Ref T initial reading 0 0 00/63/2017 2017	Well Tag	POD	Number				-		(10120			
Drill Start Date: 08/04/1989 Drill Finish Date: 08/04/1989 Plug Date: Log File Date: 08/10/1989 PCW Rev Date: Source: Shallow Pump Type: Pipe Discharge Size: Estimated Yield: 150 GPM Casing Size: 6.63 Depth Well: 223 Get Depth Water: 115 feet Water File Startine 165 178 Limestone/Dolomite/Chalk 181 213 Limestone/Dolomite/Chalk 180000 180000 180000 1	e							-	5922	08 360894	0 🌍	
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		2017		16.832
		2018		12.208
		2019		31.971
		2019		
		2020		4.615

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USGS Water Resources

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Groundwater levels for New Mexico

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USGS 323741103590501 19S.30E.28.31333

Eddy County, New Mexico Latitude 32°37'41", Longitude 103°59'05" NAD27 Land-surface elevation 3,278 feet above NGVD29 The depth of the well is 148.00 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1989-05-15		D	62610		3202.43	NGVD29		S		
1989-05-15		D	62611		3203.94	NAVD29		S		
1989-05-15		D	72019	75.57				S		
1994-03-16		D	62610		3202.95	NGVD29		S		
1994-03-16		D	62611		3204.46	NAVD88		S		
1994-03-16		D	72019	75.05				S		

	Explanation									
Section	Code	Description								
Water-level date-time accuracy	D	Date is accurate to the Day								
Parameter code	62610	Groundwater level above NGVD 1929, feet								
Parameter code	62611	Groundwater level above NAVD 1988, feet								
Parameter code	72019	Depth to water level, feet below land surface								
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988								

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USGS Groundwater for New Mexico: Water Levels -- 1 sites

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Section	Code	Description
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for New Mexico: Water Levels URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels? USA.gov

Page Contact Information: <u>New Mexico Water Data Maintainer</u> Page Last Modified: 2021-04-20 19:27:38 EDT

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-1221-1

Laboratory Sample Delivery Group: Eddy County NM Client Project/Site: Hanagan APL Fed Com 3H 214125

For:

NT Global 701 Tradewinds Blvd Midland, Texas 79706

Attn: Mike Carmona

VRAMER

Authorized for release by: 4/14/2021 12:48:04 PM

Jessica Kramer, Project Manager (432)704-5440 jessica.kramer@eurofinset.com

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

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

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Laboratory Job ID: 880-1221-1 SDG: Eddy County NM

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2

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125 Page 34 of 78

Job ID: 880-1221-1 SDG: Eddy County NM

Qualifiers			3
GC VOA			
Qualifier	Qualifier Description		4
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VO	Α		5
Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		6
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		8
U	Indicates the analyte was analyzed for but not detected.		
Glossary			9
Abbreviation	These commonly used abbreviations may or may not be present in this report.	1	
¤	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)		12
Dil Fac	Dilution Factor		D
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		

RER Relative Error Ratio (Radiochemistry) RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin)

Quality Control

Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

QC

Case Narrative

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125 Job ID: 880-1221-1 SDG: Eddy County NM

Eurofins Xenco, Midland

4/14/2021

Job ID: 880-1221-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative 880-1221-1

Receipt

The samples were received on 4/13/2021 10:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125

Client Sample ID: H-1 Date Collected: 04/12/21 00:00 Date Received: 04/13/21 10:35

Method: 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 17:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 17:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 17:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/13/21 11:49	04/13/21 17:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 17:39	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/13/21 11:49	04/13/21 17:39	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 17:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				04/13/21 11:49	04/13/21 17:39	1
1,4-Difluorobenzene (Surr)	103		70 - 130				04/13/21 11:49	04/13/21 17:39	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U F1	49.9	mg/K	9	04/13/21 11:19	04/13/21 15:28	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U F1	49.9	mg/K	9	04/13/21 11:19	04/13/21 15:28	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/K	9	04/13/21 11:19	04/13/21 15:28	1
Total TPH	<49.9	U F1	49.9	mg/K	9	04/13/21 11:19	04/13/21 15:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			04/13/21 11:19	04/13/21 15:28	1
o-Terphenyl	116		70 - 130			04/13/21 11:19	04/13/21 15:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	-	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	199		5.04		mg/Kg			04/14/21 04:39	1
									004.0

Client Sample ID: H-2 Date Collected: 04/12/21 00:00 Date Received: 04/13/21 10:35

Lab Sample ID: 880-1221-2 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 18:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 18:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 18:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/13/21 11:49	04/13/21 18:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 18:00	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/13/21 11:49	04/13/21 18:00	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				04/13/21 11:49	04/13/21 18:00	1
1,4-Difluorobenzene (Surr)	101		70 - 130				04/13/21 11:49	04/13/21 18:00	1
Method: 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		04/13/21 11:19	04/13/21 16:30	1

(GRO)-C6-C10

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Job ID: 880-1221-1 SDG: Eddy County NM

Lab Sample ID: 880-1221-1

Matrix: Solid

Eurofins Xenco, Midland
Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125

Client Sample ID: H-2 Date Collected: 04/12/21 00:00 Date Received: 04/13/21 10:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/13/21 11:19	04/13/21 16:30	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/13/21 11:19	04/13/21 16:30	
Total TPH	<49.9	U	49.9		mg/Kg		04/13/21 11:19	04/13/21 16:30	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	110		70 - 130				04/13/21 11:19		
p-Terphenyl	121		70 - 130				04/13/21 11:19	04/13/21 16:30	
Method: 300.0 - Anions, Ion C	hromatoora	iphy - Soli	ıble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	91.5		4.98		mg/Kg			04/14/21 04:58	
lient Sample ID: H-3							Lab Samp	le ID: 880-1	221-3
ate Collected: 04/12/21 00:00									c: Solic
ate Received: 04/13/21 10:35									
Method: 8021B - Volatile Orga	nic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 18:20	
Toluene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 18:20	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 18:20	
n-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/13/21 11:49	04/13/21 18:20	
p-Xylene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 18:20	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/13/21 11:49	04/13/21 18:20	
Total BTEX	<0.00200		0.00200		mg/Kg			04/13/21 18:20	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	112		70 - 130				04/13/21 11:49	04/13/21 18:20	
1,4-Difluorobenzene (Surr)	103		70 - 130				04/13/21 11:49	04/13/21 18:20	
Method: 8015B NM - Diesel Ra	ange Organ	ics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics GRO)-C6-C10	57.5		49.8		mg/Kg		04/13/21 11:19	04/13/21 16:51	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/13/21 11:19	04/13/21 16:51	
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/13/21 11:19	04/13/21 16:51	
Total TPH	57.5		49.8		mg/Kg			04/13/21 16:51	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	116		70 - 130				<u> </u>	04/13/21 16:51	
p-Terphenyl	114		70 - 130					04/13/21 16:51	
Method: 300.0 - Anions, Ion C	hromatoora	phy - Solu	ıble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
	282		4.99		mg/Kg			04/14/21 05:04	

Job ID: 880-1221-1 SDG: Eddy County NM

Lab Sample ID: 880-1221-2

5

Matrix: Solid

Method: 8021B - Volatile O	rganic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 18:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 18:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 18:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/13/21 11:49	04/13/21 18:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 18:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/13/21 11:49	04/13/21 18:20	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 130				04/13/21 11.40	04/13/21 18:20	1

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Released to Imaging: 1/19/2023 9:32:21 AM

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125

Client Sample ID: H-4 Date Collected: 04/12/21 00:00 Date Received: 04/13/21 10:35

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 18:41	
Toluene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 18:41	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 18:41	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/13/21 11:49	04/13/21 18:41	
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 18:41	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/13/21 11:49	04/13/21 18:41	
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 18:41	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	109		70 - 130				04/13/21 11:49	04/13/21 18:41	
1.4-Difluorobenzene (Surr)	103		70 - 130				04/13/21 11:49	04/13/21 18:41	

Analyte	Result	Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Method: 300.0 - Anions, Ion C	hromatogra	phy - Solu	ıble				
o-Terphenyl	116		70 - 130		04/13/21 11:19	04/13/21 17:12	1
1-Chlorooctane	113		70 - 130		04/13/21 11:19	04/13/21 17:12	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Total TPH	52.5		49.9	mg/Kg	04/13/21 11:19	04/13/21 17:12	1
C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	04/13/21 11:19	04/13/21 17:12	1
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg	04/13/21 11:19	04/13/21 17:12	1
Gasoline Range Organics (GRO)-C6-C10	52.5		49.9	mg/Kg	04/13/21 11:19	04/13/21 17:12	1

4.97

RL

MDL Unit

mg/Kg

D

Prepared

Result Qualifier

373

Job ID: 880-1221-1 SDG: Eddy County NM

Lab Sample ID: 880-1221-4

Analyzed

04/14/21 05:10

Matrix: Solid

Dil Fac

1

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Surrogate Summary

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125

Site: Hanagan APL Fed Com 3H 214125

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

			Percent	Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
880-1221-1	H-1	113	103		
880-1221-2	H-2	113	101		
880-1221-3	H-3	112	103		- 22
880-1221-4	H-4	109	103		
LCS 880-1714/1-A	Lab Control Sample	98	100		
LCSD 880-1714/2-A	Lab Control Sample Dup	104	99		
MB 880-1714/5-A	Method Blank	98	98		
Surrogate Legend					
BFB = 4-Bromofluorol	penzene (Surr)				
DFBZ = 1,4-Difluorob	enzene (Surr)				

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

		DED4	Percent Surrogate Recovery (Acceptance Limits)	
Lah Camala ID	Client Comple ID	BFB1	DFBZ1	13
Lab Sample ID	Client Sample ID			· ' `
880-1221-1 MS	H-1			
880-1221-2 MSD	H-2			
Surrogate Legend				

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Percent Surrogate Recovery (Acceptance Limits) 1CO1 OTPH1 (70-130) (70-130) Lab Sample ID **Client Sample ID** 880-1221-1 H-1 112 116 880-1221-1 MS H-1 133 S1+ 117 880-1221-1 MSD H-1 126 113 H-2 880-1221-2 110 121 880-1221-3 H-3 116 114 880-1221-4 H-4 113 116 LCS 880-1712/2-A Lab Control Sample 113 112 LCSD 880-1712/3-A Lab Control Sample Dup 108 110 MB 880-1712/1-A Method Blank 104 115

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 880-1221-1 SDG: Eddy County NM

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Lab Sample ID: MB 880-1714/5-A

QC Sample Results

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Analysis Batch: 1716							Prep Type: To Prep Batch	
	MB	MB						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/13/21 11:49	04/13/21 17:18	1
Toluene	<0.00200	U	0.00200	mg/Kg	9	04/13/21 11:49	04/13/21 17:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	9	04/13/21 11:49	04/13/21 17:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg]	04/13/21 11:49	04/13/21 17:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg	9	04/13/21 11:49	04/13/21 17:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg	9	04/13/21 11:49	04/13/21 17:18	1
Total BTEX	<0.00200	U	0.00200	mg/Kg	9	04/13/21 11:49	04/13/21 17:18	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			04/13/21 11:49	04/13/21 17:18	1
1,4-Difluorobenzene (Surr)	98		70 - 130			04/13/21 11:49	04/13/21 17:18	1

Lab Sample ID: LCS 880-1714/1-A Matrix: Solid Analysis Batch: 1716

, ,	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08445		mg/Kg		84	70 - 130	
Toluene	0.100	0.08338		mg/Kg		83	70 - 130	
Ethylbenzene	0.100	0.08352		mg/Kg		84	70 - 130	
m-Xylene & p-Xylene	0.200	0.1RRR		mg/Kg		83	70 - 130	
o-Xylene	0.100	0.08244		mg/Kg		82	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-1714/2-A Matrix: Solid

Analysis Batch: 1716									Prep	Batch:	1714
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.08523		mg/Kg		85	70 - 130	1	35
Toluene			0.100	0.08R3R		mg/Kg		8R	70 - 130	4	35
Ethylbenzene			0.100	0.09032		mg/Kg		90	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.1803		mg/Kg		90	70 - 130	8	35
o-Xylene			0.100	0.089R1		mg/Kg		90	70 - 130	8	35
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	104		70 - 130								
1,4-Difluorobenzene (Surr)	99		70 - 130								
Lab Sample ID: 880-1221-1 Matrix: Solid Analysis Batch: 1716	1 MS								Client Sar Prep Tyj Prep	· · · · · ·	al/NA
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte Benzene	Colored Result <0.00200	Qualifier U	Added 0.101	Result 0.1182	Qualifier	Unit mg/Kg	<u>D</u>	%Rec	Limits		

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Prep Type: Total/NA

Job ID: 880-1221-1 SDG: Eddy County NM

Client Sample ID: Method Blank

30-1221-1 ounty NM

5

6 7

13

Client Sample ID: Lab Control Sample Dup

Released to Imaging: 1/19/2023 9:32:21 AM

QC Sample Results

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125 Job ID: 880-1221-1 SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-1221-1 Matrix: Solid Analysis Batch: 1716	MS								C	Client Sample Prep Type: Prep Bate	Fotal/N
	Sample	Sam	ple	Spike	MS	MS				%Rec.	
Analyte	Result	Qua	lifier	Added	Result	Qualifie	r Unit	D	%Rec	Limits	
Toluene	<0.00200	U		0.101	0.1105		mg/Kg				
Ethylbenzene	<0.00200	U		0.101	0.104R		mg/Kg				
m-Xylene & p-Xylene	<0.00401	U		0.201	0.2213		mg/Kg				
o-Xylene	<0.00200			0.101	0.1234		mg/Kg				
	MS	мs									
Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	%Recovery	Qua	lifier	Limits							
Lab Sample ID: 880-1221-2 Matrix: Solid Analysis Batch: 1716	MSD								C	Client Sample Prep Type: ⁻ Prep Bate	Fotal/N
Analysis Daten. 1710	Sample	Sam	nle	Spike	MSD	MSD				%Rec.	RP
Analyte	Result			Added		Qualifie	r Unit	D	%Rec	Limits RF	
Benzene	<0.00200			0.0992	0.1082	Guanne	mg/Kg				
Toluene	< 0.00200			0.0992	0.1002		mg/Kg				
Ethylbenzene	<0.00200				0.09243		mg/Kg				
m-Xylene & p-Xylene	<0.00200			0.198	0.1270		mg/Kg				
p-Xylene	<0.00200			0.0992	0.1083		mg/Kg				
э-дунне	~0.00200	0		0.0332	0.1005		mg/rtg				
Surragata	MSD % Bocovory			Limite							
<u> </u>	MSD %Recovery			Limits							
Surrogate 4-Bromofluorobenzene (Surr)				Limits							
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	%Recovery	Qua	lifier								
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	%Recovery	Qua	lifier		GC)						
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Iethod: 8015B NM - Die Lab Sample ID: MB 880-171 Matrix: Solid	%Recovery	Qua	lifier		GC)			Clie	nt Sam	ple ID: Metho Prep Type: ⁻ Prep Bato	Total/N
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) lethod: 8015B NM - Die Lab Sample ID: MB 880-171 Matrix: Solid	%Recovery esel Rang 12/1-A	Qua	lifier		GC)			Clie	nt Sam		Fotal/N
A-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Alethod: 8015B NM - Die Lab Sample ID: MB 880-171 Matrix: Solid Analysis Batch: 1730	%Recovery esel Rang 12/1-A	Qua Je (lifier			MDL Un			nt Sam	Prep Type:	Total/N ch: 171
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) lethod: 8015B NM - Die Lab Sample ID: MB 880-171 Matrix: Solid Analysis Batch: 1730 Analyte Gasoline (ange) rganics	%Recovery esel Rang 12/1-A Res	Qua Je (Drganic MB Qualifier	s (DRO) (it I) Pr	epared	Prep Type: Prep Bate	Total/N ch: 171 Dil Fa
A-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1 1 1 1 1 1 1 1 1 1 1 1 1	%Recovery esel Rang 12/1-A 	Qua Je (MB sult	MB Qualifier	s (DRO) (mg		D Pr 04/1:	epared 3/21 11:19	Prep Type: Prep Bate Analyzed	Fotal/N ch: 171
A-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Iethod: 8015B NM - Die Lab Sample ID: MB 880-171 Matrix: Solid Analysis Batch: 1730 Analyte Gasoline (ange) rganics G() ⊬CR-C10 Diesel (ange) rganics 6) fer C10-C28v	%Recovery esel Rang 12/1-A Rea <5	Qua Je (MB sult 50.0	MB Qualifier U	es (DRO) (mg mg	/Kg /Kg	D Pr 04/13 04/13	repared 3/21 11:19 3/21 11:19	Analyzed 04/13/21 14:25	Total/N ch: 171
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) lethod: 8015B NM - Die Lab Sample ID: MB 880-171 Matrix: Solid Analysis Batch: 1730 Analyte Gasoline (ange) rganics G() v-CR-C10 Diesel (ange) rganics 6) f er C10-C28v III (ange) rganics 6) f er C28-C3R	%Recovery esel Rang 12/1-A	Qua Je (MB sult 50.0 50.0	MB Qualifier U U	s (DRO) (mg mg	/Kg /Kg /Kg) Pr 04/13 04/13 04/13	epared 3/21 11:19 3/21 11:19 3/21 11:19	Analyzed 04/13/21 14:25 04/13/21 14:25	Total/N ch: 171
I-Bromofluorobenzene (Surr) I,4-Difluorobenzene (Surr) Iethod: 8015B NM - Die Lab Sample ID: MB 880-171 Matrix: Solid Analysis Batch: 1730 Analyte Gasoline (ange) rganics G() v-CR-C10 Diesel (ange) rganics 6) f er C10-C28v II (ange) rganics 6) f er C28-C3R	%Recovery esel Rang 12/1-A Res <	Qua Je (MB sult 50.0 50.0 50.0	MB Qualifier U U U	es (DRO) (mg mg	/Kg /Kg) Pr 04/13 04/13 04/13	epared 3/21 11:19 3/21 11:19 3/21 11:19	Analyzed 04/13/21 14:25	Total/N ch: 171
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) lethod: 8015B NM - Die Lab Sample ID: MB 880-171 Matrix: Solid Analysis Batch: 1730 Analyte Gasoline (ange) rganics G() ⊬CR-C10 Diesel (ange) rganics 6) f er C10-C28v 1 II (ange) rganics 6) f er C28-C3R Total TPH	%Recovery esel Rang 12/1-A Real <	Qua Je (MB sult 50.0 50.0 50.0 50.0 <i>MB</i>	MB Qualifier U U U MB	RL 50.0 50.0 50.0 50.0		mg mg	/Kg /Kg /Kg	 Pr 04/13 04/13 04/13 04/13 	repared 3/21 11:19 3/21 11:19 3/21 11:19 3/21 11:19	Prep Type: Prep Bate 04/13/21 14:25 04/13/21 14:25 04/13/21 14:25	Total/N. ch: 171
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) lethod: 8015B NM - Die Lab Sample ID: MB 880-171 Matrix: Solid Analysis Batch: 1730 Analyte Gasoline (ange) rganics GG () v-CR-C10 Diesel (ange) rganics 6) fer C10-C28v) II (ange) rganics 6) fer C28-C3R Total TPH Surrogate	%Recovery esel Rang 12/1-A Res <	Qua Je (MB sult 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.	MB Qualifier U U U	RL RL 50.0 50.0 50.0 50.0 50.0 50.0		mg mg	/Kg /Kg /Kg	D Pr 04/13 04/13 04/13 04/13 04/13	repared 3/21 11:19 3/21 11:19 3/21 11:19 3/21 11:19 3/21 11:19	Prep Type: Prep Bate 04/13/21 14:25 04/13/21 14:25 04/13/21 14:25 04/13/21 14:25 Analyzed	Total/N/ ch: 171
L-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) ethod: 8015B NM - Die Lab Sample ID: MB 880-171 Matrix: Solid Analysis Batch: 1730 Analyte Basoline (ange) rganics G() v-CR-C10 Diesel (ange) rganics 6) fer C10-C28v II (ange) rganics 6) fer C28-C3R otal TPH Surrogate -Chlorooctane	%Recovery esel Rang 12/1-A Res <	Qua Je (MB sult 50.0 50.0 50.0 50.0 <i>MB</i>	MB Qualifier U U U MB	RL 50.0 50.0 50.0 50.0		mg mg	/Kg /Kg /Kg	D Pr 04/13 04/13 04/13 04/13 04/13 04/13 04/13 04/13	repared 3/21 11:19 3/21 11:19 3/21 11:19 3/21 11:19 3/21 11:19 repared 3/21 11:19	Prep Type: Prep Bate 04/13/21 14:25 04/13/21 14:25 04/13/21 14:25	Dil Fa Dil Fa Dil Fa Dil Fa
A-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) lethod: 8015B NM - Die Lab Sample ID: MB 880-171 Matrix: Solid Analysis Batch: 1730 Analyte Gasoline (ange) rganics GG () v-CR-C10 Diesel (ange) rganics 6) fer C10-C28v III (ange) rganics 6) fer C28-C3R Fotal TPH Surrogate 1-Chlorooctane D-Terphenyl Lab Sample ID: LCS 880-17 Matrix: Solid	%Recovery esel Rang 12/1-A Real <	Qua Je (MB sult 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.	MB Qualifier U U U MB	RL RL 50.0 50.0 50.0 50.0 50.0 50.0 50.0 70.130 70.130 70.130		mg mg mg	/Kg /Kg /Kg	Pr 04/13 04/13 04/13 04/13 04/13 04/13 04/13 04/13 04/13 04/13	repared 3/21 11:19 3/21 11:19 3/21 11:19 3/21 11:19 3/21 11:19 3/21 11:19 3/21 11:19	Prep Type: Prep Bate 04/13/21 14:25 04/13/21 14:25 04/13/21 14:25 04/13/21 14:25 04/13/21 14:25 04/13/21 14:25 04/13/21 14:25 04/13/21 14:25 Lab Control Prep Type: Prep Bate	Total/N ch: 171 j j j j j j j j j j j j j j j j j j
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) lethod: 8015B NM - Die Lab Sample ID: MB 880-171 Matrix: Solid Analysis Batch: 1730 Analyte Gasoline (ange) rganics GG() v-CR-C10 Diesel (ange) rganics 6) fer C10-C28v II (ange) rganics 6) fer C28-C3R Total TPH Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCS 880-17 Matrix: Solid Analysis Batch: 1730	%Recovery esel Rang 12/1-A Real <	Qua Je (MB sult 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.	MB Qualifier U U U MB	S (DRO) (RL 50.0 50.0 50.0 50.0 50.0 50.0 70 - 130 70 - 130 70 - 130 Spike	LCS	mg mg mg	/Kg /Kg /Kg Cliet	0 Pr 04/13 04/13 04/13 04/13 04/13 04/13 04/13 04/13	repared 3/21 11:19 3/21 11:19 3/21 11:19 3/21 11:19 3/21 11:19 3/21 11:19 3/21 11:19 3/21 11:19	Prep Type: Prep Bate 04/13/21 14:25 04/13/21 14:25	Total/N. ch: 171 j j j j j j j j j j j j j j j j j j
<u> </u>	%Recovery esel Rang 12/1-A Real <	Qua Je (MB sult 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.	MB Qualifier U U U MB	RL RL 50.0 50.0 50.0 50.0 50.0 50.0 50.0 70.130 70.130 70.130	LCS	mg mg mg	/Kg /Kg /Kg Cliet	Pr 04/13 04/13 04/13 04/13 04/13 04/13 04/13 04/13 04/13 04/13	repared 3/21 11:19 3/21 11:19 3/21 11:19 3/21 11:19 3/21 11:19 3/21 11:19 3/21 11:19	Prep Type: Prep Bate 04/13/21 14:25 04/13/21 14:25 04/13/21 14:25 04/13/21 14:25 04/13/21 14:25 04/13/21 14:25 04/13/21 14:25 04/13/21 14:25 Lab Control Prep Type: Prep Bate	Total/N. ch: 171 j j j j j j j j j j j j j j j j j j

EuroOns Xenco, Midland

QC Sample Results

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-	1712/2-A					Clier	nt Sai	nple II	D: Lab Cor		
Matrix: Solid									Prep Ty		
Analysis Batch: 1730			• •							Batch:	1712
			Spike		LCS		_		%Rec.		
Analyte	·		Added		Qualifier	Unit	D	%Rec	Limits		
Diesel (ange) rganics 6) f er C10-C28v			1000	1185		mg/Kg		118	70 - 130		
•		LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	113		70 - 130								
o-Terphenyl	112		70 - 130								
Lab Sample ID: LCSD 880)-1712/3-A				c	lient Sa	mple	ID: La	b Control	Sample	Dup
Matrix: Solid									Prep Ty	pe: Tot	al/NA
Analysis Batch: 1730									Prep	Batch:	1712
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline (ange) rganics 6G() v-CR-C10			1000	1271		mg/Kg		127	70 - 130	3	20
Diesel (ange) rganics 6) f er C10-C28v			1000	1187		mg/Kg		119	70 - 130	0	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	108		70 - 130								
o-Terphenyl	110		70 - 130								
Lab Sample ID: 880-1221	-1 MS								Client Sa	mple IC): H-1
Matrix: Solid									Prep Ty	pe: Tot	al/NA
Analysis Batch: 1730										Batch:	
-	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline (ange) rganics 6G() v-CR-C10	<49.9	U F1	998	1RR2	F1	mg/Kg		1R3	70 - 130		
Diesel (ange) rganics 6) f er C10-C28v	<49.9	U F1	998	1R1R	F1	mg/Kg		1R2	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane		S1+	70 - 130								
o-Terphenyl	117		70 - 130								
· · · · · · · · · · · · · · · · · · ·											
Lab Sample ID: 880-1221	-1 MSD								Client Sa		
Matrix: Solid									Prep Ty	-	
Analysis Batch: 1730										Batch:	
	-	Sample	Spike		MSD				%Rec.		RPD
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline (ange) rganics 6G() v-CR-C10	<49.9	UF1	998	1575		mg/Kg		154	70 - 130	5	20
	<10.0	U F1	998	1583	F1	mg/Kg		159	70 - 130	2	20
Diesel (ange) rganics 6) f er C10-C28v	~40.0	0				0 0					
		MSD				0 0					

Job ID: 880-1221-1 SDG: Eddy County NM

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Client: NT Global

QC Sample Results

.

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Job ID: 880-1221-1 SDG: Eddy County NM

Project/Site: Hanagan APL Fed Com 3H 214125 4. 200 0 Apic Ch 4.1 4 Me

Lab Sample ID: MB 880-1721/1-A Matrix: Solid	4								C	lie	nt Sar	nple ID: Me Prep Ty		
Analysis Batch: 1748													·	
	1	MB MB												
Analyte	Res	ult Qualifier		RL	I	MDL	Unit		D	P	repared	Analyz	ed	Dil Fac
Chloride	<5	.00 U		5.00			mg/K	g				04/14/21 (04:21	1
Lab Sample ID: LCS 880-1721/2-	A							Cli	ent S	Sar	nple IC	D: Lab Con	trol S	Sample
Matrix: Solid											· ·	Prep Ty		
Analysis Batch: 1748													-	
-			Spike		LCS	LCS						%Rec.		
Analyte			Added		Result	Qua	lifier	Unit		D	%Rec	Limits		
Chloride			250		228.9			mg/Kg		_	92	90 - 110		
1 ah Samnia III: 1 (ISI) 880-1721/														
Lab Sample ID: LCSD 880-1721/	3-A						C	lient S	Samp	le	ID: La	b Control S		
Matrix: Solid	3-A						C	lient S	Samp	le	ID: La	b Control S Prep Ty		
	3-A		0		1.005			lient S	Samp	le	ID: La	Prep Ty		Soluble
Matrix: Solid Analysis Batch: 1748	3-А		Spike		LCSD		D		Samp			Prep Ty %Rec.	pe: S	RPD
Matrix: Solid Analysis Batch: 1748 Analyte	3-A		Added		Result		D	Unit	Samp	D	%Rec	Prep Ty %Rec. Limits	rpe: S	RPD Limit
Matrix: Solid	3-A		•				D		Samp			Prep Ty %Rec.	pe: S	RPD Limit
Matrix: Solid Analysis Batch: 1748 Analyte Chloride			Added		Result		D	Unit	bamp		%Rec	Prep Ty %Rec. Limits 90 - 110	RPD	RPD Limit 20
Matrix: Solid Analysis Batch: 1748 Analyte			Added		Result		D	Unit	Samp		%Rec	Prep Ty %Rec. Limits 90 - 110 Client San	RPD 1 nple	RPD Limit 20
Matrix: Solid Analysis Batch: 1748 Analyte Chloride Lab Sample ID: 880-1221-1 MS Matrix: Solid			Added		Result		D	Unit	Samp		%Rec	Prep Ty %Rec. Limits 90 - 110	RPD 1 nple	RPD Limit 20
Matrix: Solid Analysis Batch: 1748 Analyte Chloride Lab Sample ID: 880-1221-1 MS Matrix: Solid Analysis Batch: 1748	3-A	Sample	Added		Result 22R3	Qual	D	Unit	Samp		%Rec	Prep Ty %Rec. Limits 90 - 110 Client San	RPD 1 nple	RPD Limit 20
Matrix: Solid Analysis Batch: 1748 Analyte Chloride Lab Sample ID: 880-1221-1 MS Matrix: Solid Analysis Batch: 1748	ample S	Sample Qualifier	Added 250		Result 22R3	Qual	D	Unit	Samp		%Rec	Prep Ty %Rec. Limits 90 - 110 Client San Prep Ty	RPD 1 nple	RPD Limit 20

Lab Sample ID: 880-1221- Matrix: Solid Analysis Batch: 1748	1 MSD								Client Sa Prep T		
Analysis Batom 1140	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	199		252	42R4		mg/Kg		90	90 - 110	1	20

EuroOns Xenco, Midland

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125

GC VOA

Prep Batch: 1714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1221-1	H-1	Total/NA	Solid	5035	
880-1221-2	H-2	Total/NA	Solid	5035	
880-1221-3	H-3	Total/NA	Solid	5035	
880-1221-4	H-4	Total/NA	Solid	5035	
MB 880-1714/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1714/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1714/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-1221-1 MS	H-1	Total/NA	Solid	5035	
880-1221-2 MSD	H-2	Total/NA	Solid	5035	

Analysis Batch: 1716

ab Sample ID.	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
80-1221-1	H-1	Total/NA	Solid	8021B	1714
80-1221-2	H-2	Total/NA	Solid	8021B	1714
80-1221-3	H-3	Total/NA	Solid	8021B	1714
80-1221-4	H-4	Total/NA	Solid	8021B	1714
B 880-1714/5-A	Method Blank	Total/NA	Solid	8021B	1714
CS 880-1714/1-A	Lab Control Sample	Total/NA	Solid	8021B	1714
CSD 880-1714/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1714
30-1221-1 MS	H-1	Total/NA	Solid	8021B	1714
80-1221-2 MSD	H-2	Total/NA	Solid	8021B	1714

GC Semi VOA

Prep Batch: 1712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1221-1	H-1	Total/NA	Solid	8015NM Prep	
880-1221-2	H-2	Total/NA	Solid	8015NM Prep	
880-1221-3	H-3	Total/NA	Solid	8015NM Prep	
880-1221-4	H-4	Total/NA	Solid	8015NM Prep	
MB 880-1712/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1712/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-1221-1 MS	H-1	Total/NA	Solid	8015NM Prep	
880-1221-1 MSD	H-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1730

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-1221-1	H-1	Total/NA	Solid	8015B NM	1712
880-1221-2	H-2	Total/NA	Solid	8015B NM	1712
880-1221-3	H-3	Total/NA	Solid	8015B NM	1712
880-1221-4	H-4	Total/NA	Solid	8015B NM	1712
MB 880-1712/1-A	Method Blank	Total/NA	Solid	8015B NM	1712
LCS 880-1712/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1712
LCSD 880-1712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1712
880-1221-1 MS	H-1	Total/NA	Solid	8015B NM	1712
880-1221-1 MSD	H-1	Total/NA	Solid	8015B NM	1712

Job ID: 880-1221-1

SDG: Eddy County NM

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125

HPLC/IC

Leach Batch: 1721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1221-1	H-1	Soluble	Solid	DI Leach	
880-1221-2	H-2	Soluble	Solid	DI Leach	
880-1221-3	H-3	Soluble	Solid	DI Leach	
880-1221-4	H-4	Soluble	Solid	DI Leach	
MB 880-1721/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1721/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1721/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-1221-1 MS	H-1	Soluble	Solid	DI Leach	
880-1221-1 MSD	H-1	Soluble	Solid	DI Leach	
– Analvsis Batch: 174	8				

Lab Sample ID **Client Sample ID** Prep Type Matrix Method **Prep Batch** Soluble 880-1221-1 H-1 Solid 300.0 1721 H-2 Soluble 300.0 880-1221-2 Solid 1721 880-1221-3 H-3 Soluble Solid 300.0 1721 880-1221-4 H-4 Soluble Solid 300.0 1721 300.0 MB 880-1721/1-A Method Blank Soluble Solid 1721 LCS 880-1721/2-A Lab Control Sample Soluble Solid 300.0 1721 LCSD 880-1721/3-A Lab Control Sample Dup Soluble Solid 300.0 1721 880-1221-1 MS H-1 Soluble Solid 300.0 1721 880-1221-1 MSD H-1 Soluble 300.0 Solid 1721

Job ID: 880-1221-1

SDG: Eddy County NM

Lab Chronicle

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125

Client Sample ID: H-1 Date Collected: 04/12/21 00:00 Date Received: 04/13/21 10:35

	Batch	Batch		Dilution	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1714	04/13/21 11:49	KL	XM
Total/NA	Analysis	8021B		1	1716	04/13/21 17:39	KL	XM
Total/NA	Prep	8015NM Prep			1712	04/13/21 11:19	DM	XM
Total/NA	Analysis	8015B NM		1	1730	04/13/21 15:28	AJ	XM
Soluble	Leach	DI Leach			1721	04/13/21 12:13	SC	XM
Soluble	Analysis	300.0		1	1748	04/14/21 04:39	CH	XM

Client Sample ID: H-2 Date Collected: 04/12/21 00:00 Date Received: 04/13/21 10:35

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1714	04/13/21 11:49	KL	XM
Total/NA	Analysis	8021B		1	1716	04/13/21 18:00	KL	XM
Total/NA	Prep	8015NM Prep			1712	04/13/21 11:19	DM	XM
Total/NA	Analysis	8015B NM		1	1730	04/13/21 16:30	AJ	XM
Soluble	Leach	DI Leach			1721	04/13/21 12:13	SC	XM
Soluble	Analysis	300.0		1	1748	04/14/21 04:58	CH	XM

Client Sample ID: H-3 Date Collected: 04/12/21 00:00 Date Received: 04/13/21 10:35

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1714	04/13/21 11:49	KL	XM
Total/NA	Analysis	8021B		1	1716	04/13/21 18:20	KL	XM
Total/NA	Prep	8015NM Prep			1712	04/13/21 11:19	DM	XM
Total/NA	Analysis	8015B NM		1	1730	04/13/21 16:51	AJ	XM
Soluble	Leach	DI Leach			1721	04/13/21 12:13	SC	XM
Soluble	Analysis	300.0		1	1748	04/14/21 05:04	СН	XM

Client Sample ID: H-4 Date Collected: 04/12/21 00:00 Date Received: 04/13/21 10:35

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1714	04/13/21 11:49	KL	XM
Total/NA	Analysis	8021B		1	1716	04/13/21 18:41	KL	XM
Total/NA	Prep	8015NM Prep			1712	04/13/21 11:19	DM	XM
Total/NA	Analysis	8015B NM		1	1730	04/13/21 17:12	AJ	XM
Soluble	Leach	DI Leach			1721	04/13/21 12:13	SC	XM
Soluble	Analysis	300.0		1	1748	04/14/21 05:10	СН	XM

Laboratory References:

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

Job ID: 880-1221-1 SDG: Eddy County NM

Lab Sample ID: 880-1221-1 Matrix: Solid

Matrix: Solid

Lab Sample ID: 880-1221-3 Matrix: Solid

Lab Sample ID: 880-1221-4 Matrix: Solid

Eurofins Xenco, Midland

Accreditation/Certification Summary

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125 Job ID: 880-1221-1 SDG: Eddy County NM

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

uthority	Pro	ogram	Identification Number	Expiration Date
exas	NE	LAP	T104704400-20-21	06-30-21
The following englyter	in altral and in Alaia and a			
the agency does not o		rt, but the laboratory is r	not certified by the governing authority.	This list may include analytes for whic
0,		rt, but the laboratory is r Matrix	Analyte	This list may include analytes for whic
the agency does not o	offer certification.		, , , , ,	This list may include analytes for whic

Eurofins Xenco, Midland

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Method Summary

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125 Job ID: 880-1221-1 SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
3015NM Prep	Microextraction	SW846	XM
DI Leach	Deionized Water Leaching Procedure	ASTM	XM

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Eurofins Xenco, Midland

Sample Summary

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125 Job ID: 880-1221-1 SDG: Eddy County NM

_ab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID	
380-1221-1	H-1	Solid	04/12/21 00:00	04/13/21 10:35		
380-1221-2	H-2	Solid	04/12/21 00:00	04/13/21 10:35		
380-1221-3	H-3	Solid	04/12/21 00:00	04/13/21 10:35		ł
380-1221-4	H-4	Solid	04/12/21 00:00	04/13/21 10:35		
						6
						8
						9
						1
						1
						1
						1

Eurofins Xenco, Midland

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Revised Date 05012020 Rev 2020.1		5	5								G
		*	10: 30 2	115-21	712		The second	MMA	di th	}	3 mike (~
Date/Time	re) Received by (Signature)	Kelinquistied by: (Signature)		Date/ Hille		are)				Interest 6. A. C.	
		Dolinaviohod hu: (Cionatur	5	DataTin		176)	hv: /Sinnati	Receiv	•	v: (Signature)	Relinguished by (Signature)
	s beyond the control usly negotiated.		by the client if halyzed. These	as incurred b, but not an	or expense d to Xenco	sibility for any losses a each sample submitte	ssume any respons a charge of \$5 for (nd shall not a n project and	cost of samples an be applied to each	e liable only for the harge of \$85.00 will	of service. Xenco will be of Xenco. A minimum ch
	rms and conditions	locontractors. It assigns standard terms and conditions	Iffiliates and su	Xenco, its a	impany to	se order from client cc	ites a valid purchas	ples constitu	nquishment of sam	document and relia	Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors.
									ts:	Additoinal Comments:	Addito
			_								
			X X	×		G	×	1	4/12/2021	4	H-4
			××	×		G	×		4/12/2021	ώ	H-3
			××	×		G	×	1	4/12/2021	2	H-2
			××	×		G	×	F	4/12/2021	÷	H-1
Sample Comments	<u>S</u>		TP		# of Cont	Water Comp	Soll	Time	Date	ntification	Sample Identification
NaOH+Ascorbic Acid SAPC	NaOH+/		H 801			1.1	Corrected Temperature:	Corrected	7-4		Total Containers.
Zn Acetate+NaOH Zn	Zn Aceta				<u> </u>	0.6	Temperature Reading	Temperat		als. Yes	Sample Custody Seals
Na ₂ S ₂ O ₃ NaSO ₃			(GF	TEX	P	5.04	1 Factor	Correction Factor			Cooler Custody Seals.
NaHSO ₄ NABIS	L NaHSO				araı	IR8	eter ID:	Thermometer ID:	N	~	Received Intact:
HP	H₃PO₄. HP				nete	(kek No	Wet Ice:	Yes (Wo	Temp Blank.		SAMPLE RECEIPT
	H ₂ S0 ₄ H ₂) + N		rs	ved by 4 30pm	3				PO#
	HCL HC		IRO			TAT starts the day received by the	TAT starts the		CM		Sampler's Name:
			•	uere ed		72HR	Due Date		Eddy County, NM	Edc	Project Location
DI Water H ₂ O	2				Pres. Code	Rush	Routine		214125		Project Number
Preservative Codes		ANALYSIS REQUEST					Tum	m 3H	Hanagan APL Fed Com 3H	Hanagar	Project Name:
and the second statement of the second s						والمتعادية والمتعادية والمراجع والمراجع والمراجع والمعادية والمراجع والمعادية والمراجع والمحاد والمحاد					
:	Deliverables EDD		s com	esources	v@eogr	James Kennedv@eogresources.com	Email		ω	432-813-0263	Phone.
	Reporting Level II Level III ST/UST		Midland, Tx 79706	Midland		City, State ZIP			79706	Midland, TX 79706	City, State ZIP
			5509 Champions Dr	5509 Ct		Address			nds BLVD	701 Tradewinds BLVD	Address
RC perfund	Program UST/PST PRP rownfields	-0	EOG Resources	EOG Re		Company Name:			mental	NTG Environmental	Company Name.
nts	Work Order Comments		James Kennedy	James I		Bill to. (if different)			12	Mike Carmona	Project Manager
e1of1	Page										
		880-1221 Chain of Custody	880-1221 Chain of Custody	80-1221 0	8				2 (

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4/14/2021

Work Order No:

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Login Sample Receipt Checklist

Client: NT Global

Login Number: 1221 List Number: 1 Creator: Phillips, Kerianna

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

Job Number: 880-1221-1 SDG Number: Eddy County NM

List Source: Eurofins Midland

Received by OCD: 11/19/2021 9:50:20 AM

🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-1223-1

Laboratory Sample Delivery Group: Eddy County NM Client Project/Site: Hanagan APL Fed Com 3H 214125

For:

NT Global 701 Tradewinds Blvd Midland, Texas 79706

Attn: Mike Carmona

VRAMER

Authorized for release by: 4/15/2021 6:14:17 PM

Jessica Kramer, Project Manager (432)704-5440 jessica.kramer@eurofinset.com

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

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

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert

Visit us at: www.eurofinsus.com/Env Released to Imaging: 1/19/2023 9:32-21 AM

Laboratory Job ID: 880-1223-1

SDG: Eddy County NM

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Sample Summary	24
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Job ID: 880-1223-1
SDG: Eddy County NM

Qualifiers

GC VOA		
Qualifier	Qualifier Description	4
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA	Α	5
Qualifier	Qualifier Description	
*+	LCS and/or LCSD is outside acceptance limits, high biased.	6
*1	LCS/LCSD RPD exceeds control limits.	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		8
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	9
U	Indicates the analyte was analyzed for but not detected.	
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	4.0
CNF	Contains No Free Liquid	13
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	

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

Job ID: 880-1223-1 SDG: Eddy County NM

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12 13

Job ID: 880-1223-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative 880-1223-1

Receipt

The samples were received on 4/13/2021 10:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125

Client Sample ID: S-1 (0-1') Date Collected: 04/12/21 00:00

Date Received: 04/13/21 10:35

Method: 8021B - Volatile Organ	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00201	U	0.00201		mg/Kg		04/13/21 11:49	04/13/21 19:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/13/21 11:49	04/13/21 19:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/13/21 11:49	04/13/21 19:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/13/21 11:49	04/13/21 19:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/13/21 11:49	04/13/21 19:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/13/21 11:49	04/13/21 19:01	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		04/13/21 11:49	04/13/21 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				04/13/21 11:49	04/13/21 19:01	1
1,4-Difluorobenzene (Surr)	101		70 - 130				04/13/21 11:49	04/13/21 19:01	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/13/21 11:19	04/13/21 17:33	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/13/21 11:19	04/13/21 17:33	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/13/21 11:19	04/13/21 17:33	1
Total TPH	<50.0	U	50.0		mg/Kg		04/13/21 11:19	04/13/21 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				04/13/21 11:19	04/13/21 17:33	1
o-Terphenyl	129		70 - 130				04/13/21 11:19	04/13/21 17:33	1

Method: 300.0 - Anions. Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	193		4.97		mg/Kg			04/14/21 05:16	1

Client Sample ID: S-1 (1'-1.5')

Lab Sample ID: 880-1223-2

04/13/21 11:49 04/13/21 19:21

Matrix: Solid

Dil Fac 1

1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Benzene	< 0.00199	U	0.00199		mg/Kg		04/13/21 11:49	04/13/21 19:21
Toluene	<0.00199	U	0.00199		mg/Kg		04/13/21 11:49	04/13/21 19:21
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/13/21 11:49	04/13/21 19:21
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/13/21 11:49	04/13/21 19:21
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/13/21 11:49	04/13/21 19:21
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/13/21 11:49	04/13/21 19:21
Total BTEX	<0.00199	U	0.00199		mg/Kg		04/13/21 11:49	04/13/21 19:21
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed
4-Bromofluorobenzene (Surr)	109		70 - 130				04/13/21 11:49	04/13/21 19:21

Method: 8015B NM - Diesel Range	Organics (DI	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.1	U	50.1		mg/Kg		04/13/21 11:19	04/13/21 17:55	1
		U							· · · · · · · · · · · · · · · · · · ·

70 - 130

(GRO)-C6-C10

1,4-Difluorobenzene (Surr)

Job ID: 880-1223-1

SDG: Eddy County NM

Lab Sample ID: 880-1223-1

Matrix: Solid

5

Eurofins Xenco, Midland

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Date Collected: 04/12/21 00:00 Date Received: 04/13/21 10:35

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125

Client Sample ID: S-1 (1'-1.5') Date Collected: 04/12/21 00:00

Date Received: 04/13/21 10:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.1	U	50.1		mg/Kg		04/13/21 11:19	04/13/21 17:55	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/13/21 11:19	04/13/21 17:55	1
Total TPH	<50.1	U	50.1		mg/Kg		04/13/21 11:19	04/13/21 17:55	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				04/13/21 11:19	04/13/21 17:55	1
o-Terphenyl	124		70 - 130				04/13/21 11:19	04/13/21 17:55	1
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			4.96		mg/Kg			04/14/21 05:34	1
Chloride	278		4.90		ilig/itg			0 11 11 21 00:01	
Chloride Client Sample ID: S-1 (2'-2.5			4.90				Lab Sar	nple ID: 880-	1223-3
Client Sample ID: S-1 (2'-2.5			4.90				Lab Sar	nple ID: 880-	
Client Sample ID: S-1 (2'-2.5 Date Collected: 04/12/21 00:00			4.90				Lab Sar	nple ID: 880-	
Client Sample ID: S-1 (2'-2.5 Pate Collected: 04/12/21 00:00 Pate Received: 04/13/21 10:35	;')	GC)	4.90				Lab San	nple ID: 880-	
Client Sample ID: S-1 (2'-2.5 Date Collected: 04/12/21 00:00 Date Received: 04/13/21 10:35 Method: 8021B - Volatile Organi	;') c Compounds ((GC) Qualifier	4.90 RL	MDL	Unit	D	Lab San	nple ID: 880-	x: Solid
Client Sample ID: S-1 (2'-2.5 late Collected: 04/12/21 00:00 late Received: 04/13/21 10:35 Method: 8021B - Volatile Organi Analyte	;') c Compounds (Qualifier		MDL		<u>D</u>		nple ID: 880- Matri	x: Solid
Client Sample ID: S-1 (2'-2.5 Date Collected: 04/12/21 00:00 Date Received: 04/13/21 10:35 Method: 8021B - Volatile Organi Analyte	;') c Compounds (Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	nple ID: 880- Matri Analyzed	x: Solid
Client Sample ID: S-1 (2'-2.5 ate Collected: 04/12/21 00:00 ate Received: 04/13/21 10:35 Method: 8021B - Volatile Organi Analyte Benzene Toluene	;') c Compounds (Qualifier U	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 04/13/21 11:49	nple ID: 880- Matri <u>Analyzed</u> 04/13/21 19:42	x: Solid
Client Sample ID: S-1 (2'-2.5 ate Collected: 04/12/21 00:00 ate Received: 04/13/21 10:35 Method: 8021B - Volatile Organi Analyte Benzene Toluene Ethylbenzene	c Compounds (Compounds () <pcompounds ()<="" p=""> <pcompounds ()<="" p=""> <pcompounds ()<="" p=""> <pcompounds (<="" td=""><td>Qualifier U U</td><td>RL 0.00200 0.00200</td><td>MDL</td><td>Unit mg/Kg mg/Kg</td><td> <u>D</u></td><td>Prepared 04/13/21 11:49 04/13/21 11:49</td><td>Analyzed 04/13/21 19:42 04/13/21 19:42</td><td>x: Solid</td></pcompounds></pcompounds></pcompounds></pcompounds>	Qualifier U U	RL 0.00200 0.00200	MDL	Unit mg/Kg mg/Kg	<u>D</u>	Prepared 04/13/21 11:49 04/13/21 11:49	Analyzed 04/13/21 19:42 04/13/21 19:42	x: Solid
Client Sample ID: S-1 (2'-2.5 ate Collected: 04/12/21 00:00 ate Received: 04/13/21 10:35 Method: 8021B - Volatile Organi Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	c Compounds (Result <0.00200 <0.00200 <0.00200	Qualifier U U U	RL 0.00200 0.00200 0.00200	MDL	Unit mg/Kg mg/Kg	<u>D</u>	Prepared 04/13/21 11:49 04/13/21 11:49 04/13/21 11:49	Analyzed 04/13/21 19:42 04/13/21 19:42	x: Solid
Client Sample ID: S-1 (2'-2.5 ate Collected: 04/12/21 00:00 ate Received: 04/13/21 10:35 Method: 8021B - Volatile Organi Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	c Compounds (Result <0.00200 <0.00200 <0.00200 <0.00399	Qualifier U U U U	RL 0.00200 0.00200 0.00200 0.00200 0.00399	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 04/13/21 11:49 04/13/21 11:49 04/13/21 11:49 04/13/21 11:49	Analyzed 04/13/21 19:42 04/13/21 19:42 04/13/21 19:42 04/13/21 19:42	x: Solic
Client Sample ID: S-1 (2'-2.5 Date Collected: 04/12/21 00:00 Date Received: 04/13/21 10:35 Method: 8021B - Volatile Organi Analyte Benzene	c Compounds (Result <0.00200 <0.00200 <0.00200 <0.00399 <0.00200	Qualifier U U U U U U U	RL 0.00200 0.00200 0.00200 0.00399 0.00200	MDL	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	D	Prepared 04/13/21 11:49 04/13/21 11:49 04/13/21 11:49 04/13/21 11:49 04/13/21 11:49	Analyzed 04/13/21 19:42 04/13/21 19:42 04/13/21 19:42 04/13/21 19:42 04/13/21 19:42	1223-3 x: Solid 1 1 1 1 1 1 1 1 1

-		
4-Bromofluorobenzene (Surr)	114	
1,4-Difluorobenzene (Surr)	102	

184

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		04/13/21 11:19	04/13/21 18:16	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		04/13/21 11:19	04/13/21 18:16	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/13/21 11:19	04/13/21 18:16	1
Total TPH	<49.9	U	49.9		mg/Kg		04/13/21 11:19	04/13/21 18:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				04/13/21 11:19	04/13/21 18:16	1
o-Terphenyl	127		70 - 130				04/13/21 11:19	04/13/21 18:16	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

5.03

70 - 130

70 - 130

04/14/21 05:40

04/13/21 19:42

04/13/21 19:42

1

1

1

04/13/21 11:49

04/13/21 11:49

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Job ID: 880-1223-1 SDG: Eddy County NM

Lab Sample ID: 880-1223-2 Matrix: Solid

mg/Kg

Released to Imaging: 1/19/2023 9:32:21 AM

Chloride

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125

Client Sample ID: S-2 (0-1') Date Collected: 04/12/21 00:00

Date Received: 04/13/21 10:35

Method: 8021B - Volatile Organ	ic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/13/21 11:49	04/13/21 20:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/13/21 11:49	04/13/21 20:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/13/21 11:49	04/13/21 20:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/13/21 11:49	04/13/21 20:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/13/21 11:49	04/13/21 20:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/13/21 11:49	04/13/21 20:02	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		04/13/21 11:49	04/13/21 20:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				04/13/21 11:49	04/13/21 20:02	1
1,4-Difluorobenzene (Surr)	104		70 - 130				04/13/21 11:49	04/13/21 20:02	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		04/13/21 11:19	04/13/21 18:37	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		04/13/21 11:19	04/13/21 18:37	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/13/21 11:19	04/13/21 18:37	1
Total TPH	<49.9	U	49.9		mg/Kg		04/13/21 11:19	04/13/21 18:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				04/13/21 11:19	04/13/21 18:37	1
o-Terphenyl	132	S1+	70 - 130				04/13/21 11:19	04/13/21 18:37	1

Method: 300.0 - Anions. Ion Chromatography - Soluble

Analyte Result	Qualifier RL	MDL Unit	DP	repared Analyzed	Dil Fac
Chloride 17.5	5.03	mg/Kg		04/14/21 05:47	1

Client Sample ID: S-2 (1'-1.5')

Lab Sample ID: 880-1223-5

Analyzed

04/13/21 20:23

04/13/21 20:23

04/13/21 20:23

04/13/21 20:23

04/13/21 20:23

04/13/21 20:23

Matrix: Solid

Dil Fac

1

1

1

1

1

1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared
Benzene	<0.00202	U	0.00202		mg/Kg		04/13/21 11:49
Toluene	< 0.00202	U	0.00202		mg/Kg		04/13/21 11:49
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/13/21 11:49
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/13/21 11:49
o-Xylene	< 0.00202	U	0.00202		mg/Kg		04/13/21 11:49
Xylenes, Total	< 0.00404	U	0.00404		mg/Kg		04/13/21 11:49

Total BTEX	<0.00202 U	0.00202	mg/Kg	04/13/21 11:49	04/13/21 20:23	1
Surrogate	%Recovery Qua	alifier Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108	70 - 130		04/13/21 11:49	04/13/21 20:23	1
1,4-Difluorobenzene (Surr)	101	70 - 130		04/13/21 11:49	04/13/21 20:23	1
Method: 8015B NM - Diesel Ra	nge Organics (DRO)	(GC)				

Method: 00156 NW - Dieser Kange	Organics (Di								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/14/21 08:54	04/14/21 18:12	1

(GRO)-C6-C10

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Job ID: 880-1223-1 SDG: Eddy County NM

Lab Sample ID: 880-1223-4

Matrix: Solid

5

Date Collected: 04/12/21 00:00 Date Received: 04/13/21 10:35

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125

Client Sample ID: S-2 (1'-1.5') Date Collected: 04/12/21 00:00

Date Received: 04/13/21 10:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U *+ *1	50.0		mg/Kg		04/14/21 08:54	04/14/21 18:12	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/14/21 08:54	04/14/21 18:12	1
Total TPH	<50.0	U	50.0		mg/Kg		04/14/21 08:54	04/14/21 18:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				04/14/21 08:54	04/14/21 18:12	1
o-Terphenyl	103		70 - 130				04/14/21 08:54	04/14/21 18:12	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.4		5.01		mg/Kg			04/14/21 05:53	1
Client Sample ID: S-2 (2'-2.5')						Lab San	nple ID: 880-	1223-6
Date Collected: 04/12/21 00:00								Matri	x: Solid
ate Received: 04/13/21 10:35									

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 20:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 20:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 20:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/13/21 11:49	04/13/21 20:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 20:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/13/21 11:49	04/13/21 20:43	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 20:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				04/13/21 11:49	04/13/21 20:43	1

1,4-Difluorobenzene (Surr)	100	70 - 130
Method: 8015B NM - Diesel Range (Organics (DRO) (GC)	

28.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/14/21 08:54	04/14/21 18:33	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U *+ *1	50.0		mg/Kg		04/14/21 08:54	04/14/21 18:33	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/14/21 08:54	04/14/21 18:33	1
Total TPH	<50.0	U	50.0		mg/Kg		04/14/21 08:54	04/14/21 18:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				04/14/21 08:54	04/14/21 18:33	1
o-Terphenyl	107		70 - 130				04/14/21 08:54	04/14/21 18:33	1
– Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

5.00

mg/Kg

04/14/21 05:59

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Matrix: Solid

Job ID: 880-1223-1 SDG: Eddy County NM

Lab Sample ID: 880-1223-5

04/13/21 11:49

04/13/21 20:43

1

1

Released to Imaging: 1/19/2023 9:32:21 AM

Chloride

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125

Client Sample ID: S-3 (0-1') Date Collected: 04/12/21 00:00

Date Received: 04/13/21 10:35

Method: 8021B - Volatile Organ	ic Compounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/13/21 11:49	04/13/21 22:05	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/13/21 11:49	04/13/21 22:05	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/13/21 11:49	04/13/21 22:05	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/13/21 11:49	04/13/21 22:05	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/13/21 11:49	04/13/21 22:05	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/13/21 11:49	04/13/21 22:05	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		04/13/21 11:49	04/13/21 22:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/13/21 11:49	04/13/21 22:05	1
1,4-Difluorobenzene (Surr)	101		70 - 130				04/13/21 11:49	04/13/21 22:05	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		04/14/21 08:54	04/14/21 18:55	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U *+ *1	49.9		mg/Kg		04/14/21 08:54	04/14/21 18:55	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/14/21 08:54	04/14/21 18:55	1
Total TPH	<49.9	U	49.9		mg/Kg		04/14/21 08:54	04/14/21 18:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				04/14/21 08:54	04/14/21 18:55	1
o-Terphenyl	108		70 - 130				04/14/21 08:54	04/14/21 18:55	1

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Chloride	382	F1	4.99		mg/Kg			04/14/21 06:05

Client Sample ID: S-3 (1'-1.5')

Date Received: 04/13/21 10:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/13/21 11:49	04/13/21 22:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/13/21 11:49	04/13/21 22:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/13/21 11:49	04/13/21 22:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/13/21 11:49	04/13/21 22:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/13/21 11:49	04/13/21 22:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/13/21 11:49	04/13/21 22:26	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		04/13/21 11:49	04/13/21 22:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				04/13/21 11:49	04/13/21 22:26	1
1,4-Difluorobenzene (Surr)	99		70 - 130				04/13/21 11:49	04/13/21 22:26	1
- Method: 8015B NM - Diesel Ra	ange Organics (Di	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		04/14/21 08:54	04/14/21 19:16	1

(GRO)-C6-C10

Job ID: 880-1223-1

SDG: Eddy County NM

Lab Sample ID: 880-1223-7

Matrix: Solid

5

Dil Fac

Matrix: Solid

Lab Sample ID: 880-1223-8

Date Collected: 04/12/21 00:00

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125

Client Sample ID: S-3 (1'-1.5') Date Collected: 04/12/21 00:00

Date Received: 04/13/21 10:35

o-Xylene

Chloride

Xylenes, Total

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.8	U *+ *1	49.8		mg/Kg		04/14/21 08:54	04/14/21 19:16	1
C10-C28) Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/14/21 08:54	04/14/21 19:16	1
Total TPH	<49.8	U	49.8		mg/Kg		04/14/21 08:54	04/14/21 19:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				04/14/21 08:54	04/14/21 19:16	1
o-Terphenyl	102		70 - 130				04/14/21 08:54	04/14/21 19:16	1
- Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	507		5.00		mg/Kg			04/14/21 06:23	1
Client Sample ID: S-3 (2'-2.5')							Lab Sar	nple ID: 880-	1223-9
Date Collected: 04/12/21 00:00 Date Received: 04/13/21 10:35								Matri	x: Solid
Method: 8021B - Volatile Organic C	compounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/13/21 11:49	04/13/21 22:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/13/21 11:49	04/13/21 22:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/13/21 11:49	04/13/21 22:46	1
m-Xylene & p-Xylene	<0.00398		0.00398		mg/Kg		04/13/21 11:49	04/13/21 22:46	

0.00199

0.00398

mg/Kg

mg/Kg

mg/Kg

MDL Unit

mg/Kg

04/13/21 11:49

04/13/21 11:49

04/13/21 11:49

Prepared

04/13/21 11:49

04/13/21 11:49

Prepared

D

04/13/21 22:46

04/13/21 22:46

04/13/21 22:46

Analyzed

04/13/21 22:46

04/13/21 22:46

Analyzed

04/14/21 08:16

Total BTEX	<0.00199	U	0.00199
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 _ 130
1,4-Difluorobenzene (Surr)	100		70 - 130

– Method: 8015B NM - Diesel Range Org	anics (DRO) (GC)	
Analyte	Result Qualifier	RL

<0.00199 U

<0.00398 U

,						_		/	
Gasoline Range Organics	56.8		49.8		mg/Kg		04/14/21 08:54	04/14/21 19:38	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U *+ *1	49.8		mg/Kg		04/14/21 08:54	04/14/21 19:38	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/14/21 08:54	04/14/21 19:38	1
Total TPH	56.8		49.8		mg/Kg		04/14/21 08:54	04/14/21 19:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				04/14/21 08:54	04/14/21 19:38	1
o-Terphenyl	99		70 - 130				04/14/21 08:54	04/14/21 19:38	1
_ Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

5.02

Job ID: 880-1223-1 SDG: Eddy County NM

Lab Sample ID: 880-1223-8 Matrix: Solid

1

1

1

1

1

1

Dil Fac

Dil Fac

Eurofins Xenco, Midland

510

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880-1223-1 County NM

Surrogate Summary

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-1223-1	S-1 (0-1')	109	101	
880-1223-2	S-1 (1'-1.5')	109	103	
880-1223-3	S-1 (2'-2.5')	114	102	
880-1223-4	S-2 (0-1')	109	104	
880-1223-5	S-2 (1'-1.5')	108	101	
880-1223-6	S-2 (2'-2.5')	116	100	
880-1223-7	S-3 (0-1')	108	101	
880-1223-8	S-3 (1'-1.5')	111	99	
880-1223-9	S-3 (2'-2.5')	111	100	
LCS 880-1714/1-A	Lab Control Sample	98	100	
LCSD 880-1714/2-A	Lab Control Sample Dup	104	99	
MB 880-1714/5-A	Method Blank	98	98	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluorobenz	zene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

_				Percent Surrogate Rec
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-1223-1	S-1 (0-1')	121	129	
880-1223-2	S-1 (1'-1.5')	115	124	
880-1223-3	S-1 (2'-2.5')	117	127	
880-1223-4	S-2 (0-1')	123	132 S1+	
880-1223-5	S-2 (1'-1.5')	112	103	
880-1223-6	S-2 (2'-2.5')	120	107	
880-1223-7	S-3 (0-1')	112	108	
880-1223-8	S-3 (1'-1.5')	109	102	
880-1223-9	S-3 (2'-2.5')	107	99	
LCS 880-1712/2-A	Lab Control Sample	113	112	
LCS 880-1765/2-A	Lab Control Sample	110	92	
LCSD 880-1712/3-A	Lab Control Sample Dup	108	110	
LCSD 880-1765/3-A	Lab Control Sample Dup	145 S1+	141 S1+	
MB 880-1712/1-A	Method Blank	104	115	
MB 880-1765/1-A	Method Blank	100	99	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Midland

6

11 12 13

Job ID: 880-1223-1

Prep Type: Total/NA

Prep Type: Total/NA

SDG: Eddy County NM

QC Sample Results

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1714/5-A							Client Sa	mple ID: Metho	d Blank
Matrix: Solid								Prep Type: 1	fotal/NA
Analysis Batch: 1716								Prep Bate	ch: 1714
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 1h:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 1h:18	1
EtXylbenzene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 1h:18	1
m-&ylene p s-&ylene	<0.00400	U	0.00400		mg/Kg		04/13/21 11:49	04/13/21 1h:18	1
o-&ylene	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 1h:18	1
&ylene, RTotal	<0.00400	U	0.00400		mg/Kg		04/13/21 11:49	04/13/21 1h:18	1
Total BTE&	<0.00200	U	0.00200		mg/Kg		04/13/21 11:49	04/13/21 1h:18	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	10		97 _ 3/ 7				7428/2333,41	7423/2339,30	3
3124-i đuorobenzene (Surr) -	10		97 _ 3/ 7				7428/2333,41	7428/2339,30	3
Lab Sample ID: LCS 880-1714/1-A						c	Client Sample I	D: Lab Control	Sample
Matrix: Solid							-	Prep Type: 1	rotal/NA
Analysis Batch: 1716								Prep Bate	ch: 1714
-			Spike	LCS LCS				«Rec.	

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08445		mg/Kg		84	h0 - 130	
Toluene	0.100	0.08338		mg/Kg		83	h0 ₋ 130	
EtXylbenzene	0.100	0.08352		mg/Kg		84	h0 - 130	
m-&ylene p s-&ylene	0.200	0.1000		mg/Kg		83	h0 ₋ 130	
o-&ylene	0.100	0.08244		mg/Kg		82	h0 ₋ 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	10		97 _ 3/ 7
3¤-i đuorobenzene (Surr)	377		97 - 3/ 7

Lab Sample ID: LCSD 880-1714/2-A Matrix: Solid

Analysis Batch: 1716									Pre	p Batch:	: 1714
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.08523		mg/Kg		85	h0 ₋ 130	1	35
Toluene			0.100	0.08030		mg/Kg		80	h0 ₋ 130	4	35
EtXylbenzene			0.100	0.09032		mg/Kg		90	h0 ₋ 130	8	35
m-&ylene p s-&ylene			0.200	0.1803		mg/Kg		90	h0 ₋ 130	8	35
o-&ylene			0.100	0.08901		mg/Kg		90	h0 - 130	8	35
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	374		97 _ 3/ 7
314-i đuorobenzene (Surr)	11		97 _ 3/ 7

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

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Job ID: 880-1223-1

SDG: Eddy County NM

QC Sample Results

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-1712/ Matrix: Solid	1-A											Client Sa	ample ID: M Prep Ty	pe: To	otal/NA
Analysis Batch: 1730													Prep	Batcl	h: 1712
	_		MB							_	_	_		_	
Analyte			Qualifier		RL		MDL	Unit		<u>D</u>		repared	Analyze		Dil Fac
Ga, oline)ange 6 rganic, 7G) 6 v-CO-C10	<	50.0	U		50.0			mg/Kg			04/1	3/21 11:19	04/13/21 14	:25	1
Die, el) ange 6 rganic, 76 f er C10-C28v	<	50.0	U		50.0			mg/Kg			04/1	3/21 11:19	04/13/21 14	:25	1
6 II) ange 6 rganic, 76 f er C28-C3O/	<	50.0	U		50.0			mg/Kg			04/1	3/21 11:19	04/13/21 14	:25	1
Total TPH	<	50.0	U		50.0			mg/Kg			04/1	3/21 11:19	04/13/21 14	:25	1
		МВ	МВ												
Surrogate	%Reco			Lin	nits						Р	repared	Analyze	d	Dil Fac
3-h cloroot aTne		374		97 -	3/7						7423	1/ 2 3 33,31	7428/2334		3
o-yer5cen8l		33р		97.	3/7						7423	/ 2 3 33,31	7428/2334	4,: p	3
	10 4									~	lient	Comple		stual C	Semula
Lab Sample ID: LCS 880-1712 Matrix: Solid	/ Z-A									U	ment	Sample	ID: Lab Coı Prep Ty		
Analysis Batch: 1730														-	h: 1712
				Spike		LCS	LCS						%Rec.	Dato	
Analyte				Added		Result	Qua	lifier	Unit		D	%Rec	Limits		
Ga, oline) ange 6 rganic,				1000		1230			mg/Kg			123	h0 - 130		
7G) 6 v-CO-C10															
Die, el) ange 6 rganic, 76 f er C10-C28v				1000		1185			mg/Kg			118	h0 - 130		
	LCS	LCS													
Surrogate	%Recovery	Qua	lifier	Limits											
3-h cloroot aTne	33/			97 _ 3/ 7	_										
o-yer5cen8l	33:			97 _ 3/ 7											
Lab Sample ID: LCSD 880-171	2/3-∆								Cli	ont	Sam	nle ID: L	ab Control	Samn	
Matrix: Solid	210-4									CIII	oun		Prep Ty	-	-
Analysis Batch: 1730														-	n: 1712
				Spike		LCSD	LCS	D					%Rec.		RPD
Analyte				Added		Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Limit
Ga, oline) ange 6 rganic,				1000		12h1			mg/Kg			12h	h0 - 130	3	20
7G) 6 v-CO-C10 Die, el) ange 6 rganic, 76 f er				1000		118h			malka			119	h0 - 130	0	20
C10-C28v				1000		11011			mg/Kg			119	10 - 130	0	20
	LCSD	LCS	D												
Surrogate	%Recovery	Qua	lifier	Limits	_										
3-h cloroot aTne	370			97 _ 3/ 7											
o-yer5cen8l	337			97 _ 3/ 7											
Lab Sample ID: MB 880-1765/	1_۵											Client Sa	ample ID: M	ethor	l Blank
Matrix: Solid													Prep Ty		
Analysis Batch: 1773															n: 1765
		MB	МВ												
Analyte	R	esult	Qualifier		RL		MDL	Unit		D	Р	repared	Analyze	d	Dil Fac
Ga, oline) ange 6 rganic, 7G) 6 v-CO-C10	<	50.0	U		50.0			mg/Kg			04/1	4/21 08:54	04/14/21 11	:20	1
Die, el) ange 6 rganic, 76 f er C10-C28v	<	50.0	U		50.0			mg/Kg			04/1	4/21 08:54	04/14/21 11	:20	1
6 II) ange 6 rganic, 76 f er C28-C3O/	<	50.0	U		50.0			mg/Kg			04/1	4/21 08:54	04/14/21 11	:20	1
Total TPH	<	50.0	U		50.0			mg/Kg			04/1	4/21 08:54	04/14/21 11	:20	1

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Job ID: 880-1223-1 SDG: Eddy County NM

QC Sample Results

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

_		MB MB					_			_		4
Surrogate	%Recov		Limits					repared	Analyze		Dil Fac	
3-h cloroot aTne		377	97 - 3/ 7					42 3 70,p4		,	3	E
o-yer5cen8l		11	97 _ 3/ 7				74 <i>2</i> 8	42 3 70,p4	742342 3 3	3,: 6	3	
Lab Sample ID: LCS 880-1765/2-A							Client	Sample	ID: Lab Cor	atrol Sa	amnla	6
Matrix: Solid							onem	Jampie	Prep Ty			
												7
Analysis Batch: 1773			Spike	LCS	1.09				%Rec.	Batch	1/05	
Amelute			Added		Qualifier	Unit		%Rec	Limits			
Analyte					Quaimer		D					ğ
Ga, oline)ange 6 rganic, 7G) 6 v-CO-C10			1000	1249		mg/Kg		125	h0 - 130			
Die, el) ange 6 rganic, 76 f er			1000	1042		mg/Kg		104	h0 - 130			9
C10-C28v			1000	1042		mg/rtg		104	110 - 100			
	LCS L											
	Recovery (Qualifier	Limits									
3-h cloroot aTne	337		97 - 3/ 7									
o-yer5cen8l	1:		97 - 3/ 7									
											_	
Lab Sample ID: LCSD 880-1765/3-A	N					Clie	nt Sam	iple ID: L	ab Control			
Matrix: Solid									Prep Ty			1
Analysis Batch: 1773										Batch		
			Spike	LCSD	LCSD				%Rec.		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Ga, oline) ange 6 rganic,			1000	1300		mg/Kg		130	h0 - 130	4	20	
7G) 6 v-CO-C10												
Die, el) ange 6 rganic, 76 f er			1000	1505	*+ *1	mg/Kg		150	h0 - 130	40	20	
C10-C28v												

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
3-h cloroot aTne	34p	S3+	97 _ 3/ 7
o-yer5cen8l	343	S3+	97 _ 3/ 7

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1721/1-A Matrix: Solid Analysis Batch: 1748											Client S	ample ID: Prep	Method Type: S	
	MB	МВ												
Analyte Re	esult	Qualifier		RL		MDL	Unit		D	Pi	repared	Analy	zed	Dil Fac
CXloride <	<5.00	U		5.00			mg/Kg					04/14/21	04:21	1
Lab Sample ID: LCS 880-1721/2-A Matrix: Solid Analysis Batch: 1748									Cli	ent	Sample	ID: Lab C Prep	ontrol S Type: S	
,, ,			Spike		LCS	LCS						%Rec.		
Analyte			Added		Result	Qual	ifier	Unit		D	%Rec	Limits		
CXloride			250		228.9			mg/Kg		_	92	90 _ 110		
Lab Sample ID: LCSD 880-1721/3-A Matrix: Solid Analysis Batch: 1748								CI	ient S	am	ple ID:	Lab Contro Prep	ol Samp Type: S	10 C
Analysis Daten. 1740			Spike		LCSD	LCSI	D					%Rec.		RPD
Analyte			Added					Unit		D	%Rec	Limits	RPD	Limit
CXloride			250		22Q3			mg/Kg		_	91	90 - 110	1	20

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Job ID: 880-1223-1

SDG: Eddy County NM

QC Sample Results

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125 Job ID: 880-1223-1 SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Matrix: Solid Analysis Batch: 1748										Type: S		i
	-	Sample	Spike		MS				%Rec.			
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits			
CXloride	382	F1	250	243.9	F1	mg/Kg		-55	90 - 110			
_ab Sample ID: 880-1223-7 MSD								Cli	ent Sample	e ID: S-3	6 (0-1')	
Matrix: Solid									Prep	Type: S	oluble	
Analysis Batch: 1748												
	-	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
	382	F1	250	24h.O	F1	mg/Kg		-54	90 _ 110	1	20	
Xloride	002					0 0						
Xioride	002											
Xloride	002											
Xioride	002											
Xioride	002											
Xloride	002											

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Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125

Job ID: 880-1223-1

SDG: Eddy County NM

GC VOA

Prep Batch: 1714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1223-1	S-1 (0-1')	Total/NA	Solid	5035	
880-1223-2	S-1 (1'-1.5')	Total/NA	Solid	5035	
880-1223-3	S-1 (2'-2.5')	Total/NA	Solid	5035	
880-1223-4	S-2 (0-1')	Total/NA	Solid	5035	
880-1223-5	S-2 (1'-1.5')	Total/NA	Solid	5035	
880-1223-6	S-2 (2'-2.5')	Total/NA	Solid	5035	
880-1223-7	S-3 (0-1')	Total/NA	Solid	5035	
880-1223-8	S-3 (1'-1.5')	Total/NA	Solid	5035	
880-1223-9	S-3 (2'-2.5')	Total/NA	Solid	5035	
MB 880-1714/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-1714/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-1714/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 1716

		i ich i kho			
80-1223-1	S-1 (0-1')	Total/NA	Solid	5035	
80-1223-2	S-1 (1'-1.5')	Total/NA	Solid	5035	
80-1223-3	S-1 (2'-2.5')	Total/NA	Solid	5035	
80-1223-4	S-2 (0-1')	Total/NA	Solid	5035	
80-1223-5	S-2 (1'-1.5')	Total/NA	Solid	5035	
80-1223-6	S-2 (2'-2.5')	Total/NA	Solid	5035	
80-1223-7	S-3 (0-1')	Total/NA	Solid	5035	
80-1223-8	S-3 (1'-1.5')	Total/NA	Solid	5035	
30-1223-9	S-3 (2'-2.5')	Total/NA	Solid	5035	
B 880-1714/5-A	Method Blank	Total/NA	Solid	5035	
CS 880-1714/1-A	Lab Control Sample	Total/NA	Solid	5035	
		Total/NA	Solid	5035	
CSD 880-1714/2-A alysis Batch: 1716	Lab Control Sample Dup				
	Lab Control Sample Dup	Tota//NA	Cond		
alysis Batch: 1716	Lab Control Sample Dup Client Sample ID	Prep Type	Matrix	Method	Prep Batch
alysis Batch: 1716 ab Sample ID					Prep Batch 1714
alysis Batch: 1716 ab Sample ID 10-1223-1	Client Sample ID	Ргер Туре	Matrix	Method	_ <u> </u>
alysis Batch: 1716 b Sample ID 0-1223-1 0-1223-2	Client Sample ID S-1 (0-1')	Prep Type Total/NA	Matrix Solid	Method 8021B	1714
alysis Batch: 1716 ab Sample ID 30-1223-1 30-1223-2 30-1223-3	Client Sample ID S-1 (0-1') S-1 (1'-1.5')	Prep Type Total/NA Total/NA	Matrix Solid Solid	Method 8021B 8021B	1714 1714
alysis Batch: 1716 ab Sample ID 00-1223-1 30-1223-2 30-1223-3 30-1223-4	Client Sample ID S-1 (0-1') S-1 (1'-1.5') S-1 (2'-2.5')	Prep Type Total/NA Total/NA Total/NA	Matrix Solid Solid Solid	Method 8021B 8021B 8021B 8021B	1714 1714 1714
alysis Batch: 1716 b Sample ID 0-1223-1 0-1223-2 0-1223-3 0-1223-4 0-1223-5	Client Sample ID S-1 (0-1') S-1 (1'-1.5') S-1 (2'-2.5') S-2 (0-1')	Prep Type Total/NA Total/NA Total/NA Total/NA	Matrix Solid Solid Solid Solid Solid	Method 8021B 8021B 8021B 8021B 8021B	1714 1714 1714 1714 1714
alysis Batch: 1716 b Sample ID 00-1223-1 00-1223-2 00-1223-2 00-1223-3 00-1223-4 00-1223-5 00-1223-6	Client Sample ID S-1 (0-1') S-1 (1'-1.5') S-1 (2'-2.5') S-2 (0-1') S-2 (1'-1.5')	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA	Matrix Solid Solid Solid Solid Solid Solid	Method 8021B 8021B 8021B 8021B 8021B 8021B	1714 1714 1714 1714 1714 1714
alysis Batch: 1716 b Sample ID 00-1223-1 00-1223-2 00-1223-3 00-1223-3 00-1223-4 00-1223-5 00-1223-6 00-1223-7	Client Sample ID S-1 (0-1') S-1 (1'-1.5') S-1 (2'-2.5') S-2 (0-1') S-2 (1'-1.5') S-2 (2'-2.5')	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Matrix Solid Solid Solid Solid Solid Solid Solid	Method 8021B 8021B 8021B 8021B 8021B 8021B 8021B	1714 1714 1714 1714 1714 1714 1714
alysis Batch: 1716 ab Sample ID 00-1223-1 00-1223-2 00-1223-2 00-1223-3 00-1223-4 00-1223-5 00-1223-6 00-1223-7 00-1223-8	Client Sample ID S-1 (0-1') S-1 (1'-1.5') S-1 (2'-2.5') S-2 (0-1') S-2 (2'-2.5') S-3 (0-1')	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Matrix Solid Solid Solid Solid Solid Solid Solid Solid	Method 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B	1714 1714 1714 1714 1714 1714 1714 1714
alysis Batch: 1716 ab Sample ID 30-1223-1 30-1223-2 30-1223-2 30-1223-3 30-1223-4 30-1223-5 30-1223-5 30-1223-6 30-1223-7 30-1223-8 30-1223-9	Client Sample ID S-1 (0-1') S-1 (1'-1.5') S-1 (2'-2.5') S-2 (0-1') S-2 (1'-1.5') S-2 (2'-2.5') S-3 (0-1') S-3 (1'-1.5')	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid	Method 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B	1714 1714 1714 1714 1714 1714 1714 1714
	Client Sample ID S-1 (0-1') S-1 (1'-1.5') S-1 (2'-2.5') S-2 (0-1') S-2 (1'-1.5') S-3 (0-1') S-3 (1'-1.5') S-3 (2'-2.5')	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	Method 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B 8021B	1714 1714 1714 1714 1714 1714 1714 1714

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Prep Batch: 1712

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-1223-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-1223-2	S-1 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-1223-3	S-1 (2'-2.5')	Total/NA	Solid	8015NM Prep	
880-1223-4	S-2 (0-1')	Total/NA	Solid	8015NM Prep	
MB 880-1712/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1712/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 1730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1223-1	S-1 (0-1')	Total/NA	Solid	8015B NM	1712
880-1223-2	S-1 (1'-1.5')	Total/NA	Solid	8015B NM	1712
880-1223-3	S-1 (2'-2.5')	Total/NA	Solid	8015B NM	1712
880-1223-4	S-2 (0-1')	Total/NA	Solid	8015B NM	1712
MB 880-1712/1-A	Method Blank	Total/NA	Solid	8015B NM	1712
LCS 880-1712/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	1712
LCSD 880-1712/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	1712

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Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125

Job ID: 880-1223-1

SDG: Eddy County NM

GC Semi VOA

Prep Batch: 1765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1223-5	S-2 (1'-1.5')	Total/NA	Solid	8015NM Prep	
380-1223-6	S-2 (2'-2.5')	Total/NA	Solid	8015NM Prep	
380-1223-7	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
380-1223-8	S-3 (1'-1.5')	Total/NA	Solid	8015NM Prep	
380-1223-9	S-3 (2'-2.5')	Total/NA	Solid	8015NM Prep	
MB 880-1765/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
_CS 880-1765/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1765/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

880-1223-5	S-2 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-1223-6	S-2 (2'-2.5')	Total/NA	Solid	8015NM Prep	
880-1223-7	S-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-1223-8	S-3 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-1223-9	S-3 (2'-2.5')	Total/NA	Solid	8015NM Prep	
MB 880-1765/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-1765/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-1765/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
Analysis Batch: 1773					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
Lab Sample ID 880-1223-5	Client Sample ID S-2 (1'-1.5')	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch
880-1223-5	S-2 (1'-1.5')	Total/NA	Solid	8015B NM	1765
880-1223-5 880-1223-6	S-2 (1'-1.5') S-2 (2'-2.5')	Total/NA Total/NA	Solid Solid	8015B NM 8015B NM	1765 1765
880-1223-5 880-1223-6 880-1223-7	S-2 (1'-1.5') S-2 (2'-2.5') S-3 (0-1')	Total/NA Total/NA Total/NA	Solid Solid Solid	8015B NM 8015B NM 8015B NM	1765 1765 1765
880-1223-5 880-1223-6 880-1223-7 880-1223-8	S-2 (1'-1.5') S-2 (2'-2.5') S-3 (0-1') S-3 (1'-1.5')	Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid	8015B NM 8015B NM 8015B NM 8015B NM	1765 1765 1765 1765
880-1223-5 880-1223-6 880-1223-7 880-1223-8 880-1223-9	S-2 (1'-1.5') S-2 (2'-2.5') S-3 (0-1') S-3 (1'-1.5') S-3 (2'-2.5')	Total/NA Total/NA Total/NA Total/NA Total/NA	Solid Solid Solid Solid Solid Solid	8015B NM 8015B NM 8015B NM 8015B NM 8015B NM	1765 1765 1765 1765 1765 1765

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Leach Batch: 1721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1223-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-1223-2	S-1 (1'-1.5')	Soluble	Solid	DI Leach	
880-1223-3	S-1 (2'-2.5')	Soluble	Solid	DI Leach	
880-1223-4	S-2 (0-1')	Soluble	Solid	DI Leach	
880-1223-5	S-2 (1'-1.5')	Soluble	Solid	DI Leach	
880-1223-6	S-2 (2'-2.5')	Soluble	Solid	DI Leach	
880-1223-7	S-3 (0-1')	Soluble	Solid	DI Leach	
880-1223-8	S-3 (1'-1.5')	Soluble	Solid	DI Leach	
880-1223-9	S-3 (2'-2.5')	Soluble	Solid	DI Leach	
MB 880-1721/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1721/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1721/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-1223-7 MS	S-3 (0-1')	Soluble	Solid	DI Leach	
880-1223-7 MSD	S-3 (0-1')	Soluble	Solid	DI Leach	

Analysis Batch: 1748

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-1223-1	S-1 (0-1')	Soluble	Solid	300.0	1721
880-1223-2	S-1 (1'-1.5')	Soluble	Solid	300.0	1721
880-1223-3	S-1 (2'-2.5')	Soluble	Solid	300.0	1721
880-1223-4	S-2 (0-1')	Soluble	Solid	300.0	1721
880-1223-5	S-2 (1'-1.5')	Soluble	Solid	300.0	1721
880-1223-6	S-2 (2'-2.5')	Soluble	Solid	300.0	1721
880-1223-7	S-3 (0-1')	Soluble	Solid	300.0	1721
880-1223-8	S-3 (1'-1.5')	Soluble	Solid	300.0	1721
880-1223-9	S-3 (2'-2.5')	Soluble	Solid	300.0	1721
MB 880-1721/1-A	Method Blank	Soluble	Solid	300.0	1721

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Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125

HPLC/IC (Continued)

Analysis Batch: 1748 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
LCS 880-1721/2-A	Lab Control Sample	Soluble	Solid	300.0	1721
LCSD 880-1721/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1721
880-1223-7 MS	S-3 (0-1')	Soluble	Solid	300.0	1721
880-1223-7 MSD	S-3 (0-1')	Soluble	Solid	300.0	1721

Eurofins Xenco, Midland

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Job ID: 880-1223-1 SDG: Eddy County NM Project/Site: Hanagan APL Fed Com 3H 214125

5 6

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Job ID: 880-1223-1 SDG: Eddy County NM

Lab Sample ID: 880-1223-1 Matrix: Solid

Date Collected: 04/12/21 00:00 Date Received: 04/13/21 10:35

Client Sample ID: S-1 (0-1')

Client: NT Global

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1714	04/13/21 11:49	KL	XM
Total/NA	Analysis	8021B		1	1716	04/13/21 19:01	KL	XM
Total/NA	Prep	8015NM Prep			1712	04/13/21 11:19	DM	XM
Total/NA	Analysis	8015B NM		1	1730	04/13/21 17:33	AJ	XM
Soluble	Leach	DI Leach			1721	04/13/21 12:13	SC	XM
Soluble	Analysis	300.0		1	1748	04/14/21 05:16	CH	XM

Client Sample ID: S-1 (1'-1.5') Date Collected: 04/12/21 00:00 Date Received: 04/13/21 10:35

_	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1714	04/13/21 11:49	KL	XM
Total/NA	Analysis	8021B		1	1716	04/13/21 19:21	KL	XM
Total/NA	Prep	8015NM Prep			1712	04/13/21 11:19	DM	XM
Total/NA	Analysis	8015B NM		1	1730	04/13/21 17:55	AJ	XM
Soluble	Leach	DI Leach			1721	04/13/21 12:13	SC	XM
Soluble	Analysis	300.0		1	1748	04/14/21 05:34	CH	XM

Client Sample ID: S-1 (2'-2.5') Date Collected: 04/12/21 00:00

Date Received: 04/13/21 10:35

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1714	04/13/21 11:49	KL	XM
Total/NA	Analysis	8021B		1	1716	04/13/21 19:42	KL	XM
Total/NA	Prep	8015NM Prep			1712	04/13/21 11:19	DM	XM
Total/NA	Analysis	8015B NM		1	1730	04/13/21 18:16	AJ	XM
Soluble	Leach	DI Leach			1721	04/13/21 12:13	SC	XM
Soluble	Analysis	300.0		1	1748	04/14/21 05:40	СН	XM

Client Sample ID: S-2 (0-1') Date Collected: 04/12/21 00:00 Date Received: 04/13/21 10:35

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1714	04/13/21 11:49	KL	XM
Total/NA	Analysis	8021B		1	1716	04/13/21 20:02	KL	XM
Total/NA	Prep	8015NM Prep			1712	04/13/21 11:19	DM	XM
Total/NA	Analysis	8015B NM		1	1730	04/13/21 18:37	AJ	XM
Soluble	Leach	DI Leach			1721	04/13/21 12:13	SC	XM
Soluble	Analysis	300.0		1	1748	04/14/21 05:47	СН	XM

Matrix: Solid

Lab Sample ID: 880-1223-3

Lab Sample ID: 880-1223-2

Matrix: Solid

Lab Sample ID: 880-1223-4 Matrix: Solid

Eurofins Xenco, Midland

Project/Site: Hanagan APL Fed Com 3H 214125

Job ID: 880-1223-1 SDG: Eddy County NM

Lab Sample ID: 880-1223-5 Matrix: Solid

Lab Sample ID: 880-1223-6

Matrix: Solid

Date Collected: 04/12/21 00:00 Date Received: 04/13/21 10:35

Client Sample ID: S-2 (1'-1.5')

Client: NT Global

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1714	04/13/21 11:49	KL	XM
Total/NA	Analysis	8021B		1	1716	04/13/21 20:23	KL	XM
Total/NA	Prep	8015NM Prep			1765	04/14/21 08:54	DM	XM
Total/NA	Analysis	8015B NM		1	1773	04/14/21 18:12	AJ	XM
Soluble	Leach	DI Leach			1721	04/13/21 12:13	SC	XM
Soluble	Analysis	300.0		1	1748	04/14/21 05:53	СН	XM

Client Sample ID: S-2 (2'-2.5') Date Collected: 04/12/21 00:00 Date Received: 04/13/21 10:35

-	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1714	04/13/21 11:49	KL	XM
Total/NA	Analysis	8021B		1	1716	04/13/21 20:43	KL	XM
Total/NA	Prep	8015NM Prep			1765	04/14/21 08:54	DM	XM
Total/NA	Analysis	8015B NM		1	1773	04/14/21 18:33	AJ	XM
Soluble	Leach	DI Leach			1721	04/13/21 12:13	SC	XM
Soluble	Analysis	300.0		1	1748	04/14/21 05:59	CH	XM

Client Sample ID: S-3 (0-1') Date Collected: 04/12/21 00:00

Date Received: 04/13/21 10:35

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1714	04/13/21 11:49	KL	XM
Total/NA	Analysis	8021B		1	1716	04/13/21 22:05	KL	XM
Total/NA	Prep	8015NM Prep			1765	04/14/21 08:54	DM	XM
Total/NA	Analysis	8015B NM		1	1773	04/14/21 18:55	AJ	XM
Soluble	Leach	DI Leach			1721	04/13/21 12:13	SC	XM
Soluble	Analysis	300.0		1	1748	04/14/21 06:05	СН	XM

Client Sample ID: S-3 (1'-1.5') Date Collected: 04/12/21 00:00 Date Received: 04/13/21 10:35

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1714	04/13/21 11:49	KL	XM
Total/NA	Analysis	8021B		1	1716	04/13/21 22:26	KL	XM
Total/NA	Prep	8015NM Prep			1765	04/14/21 08:54	DM	XM
Total/NA	Analysis	8015B NM		1	1773	04/14/21 19:16	AJ	XM
Soluble	Leach	DI Leach			1721	04/13/21 12:13	SC	XM
Soluble	Analysis	300.0		1	1748	04/14/21 06:23	СН	XM

Lab Sample ID: 880-1223-7 Matrix: Solid

Lab Sample ID: 880-1223-8 Matrix: Solid

Eurofins Xenco, Midland

Released to Imaging: 1/19/2023 9:32:21 AM

Client Sample ID: S-3 (2'-2.5') Date Collected: 04/12/21 00:00 Date Received: 04/13/21 10:35

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			1714	04/13/21 11:49	KL	XM
Total/NA	Analysis	8021B		1	1716	04/13/21 22:46	KL	XM
Total/NA	Prep	8015NM Prep			1765	04/14/21 08:54	DM	XM
Total/NA	Analysis	8015B NM		1	1773	04/14/21 19:38	AJ	XM
Soluble	Leach	DI Leach			1721	04/13/21 12:13	SC	XM
Soluble	Analysis	300.0		1	1748	04/14/21 08:16	СН	XM

Laboratory References:

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

Job ID: 880-1223-1 SDG: Eddy County NM

Lab Sample ID: 880-1223-9

Matrix: Solid

Eurofins Xenco, Midland

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Accreditation/Certification Summary

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		Accreditation/C	ertification Summary	
Client: NT Global Project/Site: Hanagan	APL Fed Com 3H 2	14125		Job ID: 880-1223-1 SDG: Eddy County NM
Laboratory: Eurof Unless otherwise noted, all a		nd were covered under each acc	reditation/certification below.	
Authority		Program	Identification Number	Expiration Date
Texas		NELAP	T104704400-20-21	06-30-21
		, but the laboratory is not certif	fied by the governing authority. This list ma	
the agency does not of Analysis Method	Prep Method	Matrix	Analyte	
8015B NM	8015NM Prep	Solid	Total TPH	
8021B	5035	Solid	Total BTEX	
				1
				1
				1
				1

Eurofins Xenco, Midland

Released to Imaging: 1/19/2023 9:32:21 AM

.

Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125

Job ID: 880-1223-1 SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XM
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
8015NM Prep	Microextraction	SW846	XM
DI Leach	Deionized Water Leaching Procedure	ASTM	XM

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

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Lab Sample ID

880-1223-1

880-1223-2

880-1223-3

880-1223-4

880-1223-5

880-1223-6

880-1223-7

880-1223-8

880-1223-9

Sample Summary

Solid

Solid

Solid

Solid

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Client: NT Global Project/Site: Hanagan APL Fed Com 3H 214125

S-2 (2'-2.5')

S-3 (1'-1.5')

S-3 (2'-2.5')

S-3 (0-1')

Eurofins Xenco, Midland

nagan APL Fed Com 3H 214125				SDG: Eddy County NM	2
Client Sample ID	Matrix	Collected	Received	Asset ID	3
<u>S-1 (0-1')</u>	Solid	04/12/21 00:00	04/13/21 10:35		Λ
S-1 (1'-1.5')	Solid	04/12/21 00:00	04/13/21 10:35		4
S-1 (2'-2.5')	Solid	04/12/21 00:00	04/13/21 10:35		5
S-2 (0-1')	Solid	04/12/21 00:00	04/13/21 10:35		5
S-2 (1'-1.5')	Solid	04/12/21 00:00	04/13/21 10:35		6

04/12/21 00:00

04/12/21 00:00

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04/13/21 10:35

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04/13/21 10:35

04/13/21 10:35

Job ID: 880-1223-1 G: Eddy County NM

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UN	" Muk(-	Relinquished by:	Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It ass of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforce	Additoi		S-3 (2'-2 5')	S-3 (1'-1 5')	S-3 (0-1')	S-2 (2'-2 5')	S-2 (1'-1 5')	S-2 (0-1')	S-1 (2'-2 5')	S-1 (1'-1 5')	S-1 (0-1')	Sample Identification	Total Containers.	Sample Custody Seals	Cooler Custody Seals:	Received Intact:	SAMPLE RECEIPT		Samplers Name:	Project Location	Project Number		Depined Nome-	Phone:	City, State ZIP	Address:	Company Name:	Project Manager	
	ſ	: (Signature)	locument and relinqu liable only for the co arge of \$85.00 will be	Additoinal Comments:		2 5')	1 5')	-1')	2 5')	1 5')	-1')	2 5')	1 5')	-1')	tification	4	Yes	Yes	Ne				Eddy			Hanagan A	432-813-0263	Midland, TX 79706	701 Tradewinds BLVD	NTG Environmental	Mike Carmona	ENVIRONMENTAL
	Why A	<u>U</u>	iishment of sam st of samples an applied to each			4/12/2021	4/12/2021	4/12/2021	4/12/2021	4/12/2021	4/12/2021	4/12/2021	4/12/2021	4/12/2021	Date		No (N/A)		z	-ľœ		CM	Eddy County, NM	214125		Hanagan APL Fed Com 3H		706	s BLVD	ental		
	E	Receiv	oles constitu d shall not a project and				1	1	1	1	1			ı	Time	Corrected	Temperat	Correction Factor	Thermometer ID:	Yes (No						י 1 3H						
		Received by: (Signature)	rtes a valid purcha ssume any respon a charge of \$5 for			×	×	×	×	×	×	×	×	×	Soll	Corrected Temperature:	Temperature Reading.	- 11	eter ID.	/ Wet Ice:	and a second	TAT starts the	Due Date:	Routine]		Email					
		ure)	se order from clie sibility for any los each sample subi										0		Water Comp		0,6	+0.5	5XT	Ves No		TAT starts the day received by the	72HR	マ Rush			James Kennedy@eogresources.com	City, State ZIP	Address	Company Name	Bill to, (if different)	
	1		nt company ses or expe mitted to Xe				G 	G 1	G 1	G 1	G 1	G 1	G 1	G 1	ab/#of Cont			P	ara	met	ers	the		Code	020		nedy@ec			ne [.]	nt)	880-1223 Chain of Custody
	4-13-21	Date	r to Xenco Inses incu Inco, but n			_	×	×	×	×	×	×	×	×	<u>a ×</u>		в	wanta saf	(80;			en mension		¥ 9	• •	The second se	ogresou	Mid	550	EO	Jan	Chain of
	10:	Date/Time	, its affilia rred by th iot analyzi		$\left - + \right $	+	×	×	×	X	×	×	×	×	TP	H 801	5M	(GF	201	DR	0+	MRC	D)				rces co	Midland, Tx 79706	5509 Champions Dr	EOG Resources	James Kennedy	Custoc
	20 20 ≰		tes and su le client if ed. These			×	×	×	×	×	×	×	×	×			Ch	lor	die 3	300 0)				Statement of the		В	79706	pions Dr	Irces	hedy	4
		Relinquished by: (Signature)	Notce Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.																						ANALISIS REQUEST				•			
		ature)	terms and nces beyond viously nego																						ancol		Delivera	Reportir	State of	Progran		
		Received by: (Signature)	conditions the control tiated.															н	DLD	\$							Deliverables EDD ADaPT	Reporting Level II Level III ST/UST	State of Project:	Program: UST/PST PRP rownfields	Work Order Comments	
Revi		Jre)													Samp	NaOH+Ascc	Zn Acetate+NaOH Zn	Na ₂ S ₂ O ₃ NaSO ₃	NaHSO4 NABIS	H ₃ PO ₄ HP	H2S04 H2	HCL HC	Cool Cool	None NO	Prese			/UST RRP		ıfields 🔤 RC	omments	Page
Revised Date 05012020 Rev 2020.1		Date/Time													Sample Comments	NaOH+Ascorbic Acid SAPC	NaOH Zn	aSO3	ABIS		NaOH Na	HNO3 HN	MeOH Me	DI Water ⁻ H ₂ O	Preservative Codes		Other			C perfund		

4/15/2021

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Work Order No:

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14

Job Number: 880-1223-1 SDG Number: Eddy County NM

List Source: Eurofins Midland

Login Sample Receipt Checklist

Client: NT Global

Login Number: 1223 List Number: 1 Creator: Phillips, Kerianna

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

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

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	62754
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
bhall	None	1/19/2023

CONDITIONS

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Action 62754