Page 1 of 125

Incident ID NAPP2111849120
District RP
Facility ID
Application ID 26051

# 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.

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

✓ A scaled site and sampling diagram as described in 19.15.29.1	1 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	C District office must be notified 2 days prior to final sampling)	
✓ Description of remediation activities		
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rerhuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the O	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in	
Signature: Todd Wells		
email: todd_wells@eogresources.com	Telephone: (432) 686.3613	
OCD Only  Received by: Ramona Marcus	Date: 6/16/2021	
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.	
Closure Approved by:	Date: <u>08/12/2021</u>	
Printed Name: Chad Hensley	Title: Environmental Specialist Advanced	



# Appendix A

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAPP2111849120
District RP	
Facility ID	
Application ID	26051

# **Release Notification**

# **Responsible Party**

Responsible Party EOG Resources				OGRID	7377		
Contact Name Todd Wells				Contact Telephone (432) 686-3613			
Contact email Todd_Wells@eogresources.com				Incident 7	# (assigned by OCI	D) NAPP2111849120	
Contact mail 79706	ing address	5509 Champions	Drive Midland,	TX			
			Location	n of R	elease S	Source	
Latitude 32.0	)23723°		(NAD 83 in a		Longitude grees to 5 dec	-103.535457° imal places)	
Site Name D	ogwood 23	Fed CTB			Site Type	Tank Battery	
Date Release	Discovered	4/4/21			API# (if ap	pplicable)	
Unit Letter	Section	Township	Range		Cou	ınty	
P	23	26S	33E	Lea			7
	Materia	l(s) Released (Select a	Nature an				he volumes provided below)
Crude Oi		l(s) Released (Select a	** *	ch calculati	ons or specifi	*	he volumes provided below) covered (bbls)
Produced	Water	Volume Releas	ed (bbls) 320			Volume Rec	covered (bbls) 310
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		in the	X Yes	No		
Condensa	Condensate Volume Released (bbls)			Volume Rec	covered (bbls)		
Natural C	Natural Gas Volume Released (Mcf)			Volume Rec	covered (Mcf)		
Other (describe) Volume/Weight Released (provide units)			Volume/We	ight Recovered (provide units)			
		vater transfer pum bbls of produced					oduced water around the pump and on the

Received by OCD: 6/16/2021 10:23:13 AM Form C-141 State of New Mexico Page 2 Oil Conservation Division Page 4 of 125

Incident ID NAPP2111849120
District RP
Facility ID
Application ID

Was this a major release as defined by	If YES, for what reason(s) does the respo	nsible party consider this a major release? More than 25 bbls
19.15.29.7(A) NMAC?		
⊠ Yes □ No		
	notice given to the OCD? By whom? Total Spills inbox on 4/19/21.	o whom? When and by what means (phone, email, etc)? E-mail
	Initial R	esnonse
		•
The responsible	party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury
The source of the rel	ease has been stopped.	
The impacted area ha	as been secured to protect human health and	the environment.
Released materials h	ave been contained via the use of berms or	likes, absorbent pads, or other containment devices.
All free liquids and r	ecoverable materials have been removed an	d managed appropriately.
If all the actions describe	d above have <u>not</u> been undertaken, explain	why:
D 10 17 20 0 D (1) ND	11. C.	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.		
regulations all operators are	required to report and/or file certain release not	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger
failed to adequately investig	gate and remediate contamination that pose a three	OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	of a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
Printed Name: Todo	1 Wells Title:	Environmental Specialist
	ld Wells	
email:Todd_`	Wells@eogresources.com	Telephone: <u>(432) 686-3613</u>
OCD Only		
Received by:Ramor	na Marcus	Date: 6/16/2021

Received by OCD: 6/16/2021 10:23:13 AM Form C-141 State of New Mexico Page 3 Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

# **Site Assessment/Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(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 <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ☐ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.  Field data  Data table of soil contaminant concentration data  Depth to water determination  Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release  Boring or excavation logs  Photographs including date and GIS information  Topographic/Aerial maps  Laboratory data including chain of custody		

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

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Incident ID	NAPP2111849120
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	occ does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name:	_ Title:
Signature: Todd Wells	Date:
email:	Telephone:
OCD Only  Received by:  Ramona Marcus	Date:6/16/2021

Received by OCD: 6/16/2021 10:23:13 AM Form C-141 State of New Mexico Page 6 Oil Conservation Division

	1 uge / Oj 1
Incident ID	
District RP	
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.

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

A scaled site and sampling diagram as described in 19.15.29.1	1 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		
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and ren human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the con accordance with 19.15.29.13 NMAC including notification to the Or	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially neditions that existed prior to the release or their final land use in	
	Date:	
email:	Telephone:	
OCD Only		
Received by:Ramona Marcus	Date: 6/16/2021	
	of liability should their operations have failed to adequately investigate and vater, human health, or the environment nor does not relieve the responsible or regulations.	
Closure Approved by:	Date:	
Printed Name:	Title:	



### Site Information

Closure Report
Dogwood 23 Fed CTB
Lea County, New Mexico
Unit P Sec 23 T26S R33E
Incident #: NAPP2111849120
32.023684°, -103.535367°

Produced Water Release
Source: Failed weld on the water transfer pump tee connection
Release Date: 4/4/2021
Volume Released: 320 bbls/Produced Water

Volume Recovered: 310 bbls/ Produced Water

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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TABLE 2	REMEDIATION SOIL ANALYTICAL RESULTS
PHOTOS	PHOTOLOG

## **APPENDICES**

APPENDIX A	C-141 INITIAL AND FINAL
APPENDIX B	GROUNDWATER RESEARCH
APPENDIX C	LABORATORY ANALYTICAL REPORTS



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

June 3, 2021

New Mexico Oil Conservation Division 1220 South St, Francis Drive Sante Fe, NM 87505

**Re:** Closure Report

Dogwood 23 FED CTB EOG Resources Inc.

Site Location: Unit P, S23, T26S, R33E (Lat 32.023684°, Long -103.535367)

Lea 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 and remediation activities for Dogwood 23 Fed CTB. The site is located at 32.023684°, -103.535367° within Unit P, S23, T26S, R33E, and approximately 21 miles Southwest of Jal, New Mexico, in Lea 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 April 4, 2021. It resulted in the release of approximately three hundred and twenty (320) barrels of produced water release, and three hundred and ten (310) barrels of produced water were recovered. The impacted area measured approximately 110' x 30', as shown on Figure 3. The initial C-141 form is attached in Appendix A.

### **Site Characterization**

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there is no known water source within a ½ mile radius of the location. The nearest identified well is located approximately 1.42 miles West of the site in S27, T26S, R33E. The well has a reported depth to groundwater of 76 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 26, 2021, NTGE conducted site assessment activities to assess soil impacts resulting from the release. A total of six (6) sample points were advanced to depths ranging surface -0.5 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.

Referring to Table 1, the area of S-3 showed a high concentration of 9,660 mg/kg for TPH at surface - 0.5' ft bgs, as well as chlorides at 1,160 mg/kg. The area of H-3 showed a high chloride concentration of 13,100 mg/kg at surface to 0.5'. All samples are below the NMOCD regulatory criteria for BTEX. Due to the dense formation, NTGE was not able to get deeper samples.

## **Remediation Activities and Confirmation Sampling**

New Tech Global Environmental personnel were onsite from May 10, 2021, through May 18, 2021, to supervise the remediation activities and collect confirmation samples. The area of S-3 was excavated to a depth of 1.0' below surface.

A total of five (5) confirmation samples were collected (CS-1 through CS-5), and seven (7) sidewall samples (SW-1 through SW-7) were collected every 200 square feet to ensure proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 2. The excavation depths and confirmation sample locations are shown in Figure 4.

The areas of sidewalls (SW-3, SW-4, and SW-5) showed high TPH concentrations of 293 mg/kg, 170 mg/kg, and 116 mg/kg. In addition, those sidewalls were extended an additional 0.5 feet to ensure proper removal of contaminated soils.

All the final confirmation samples were below the 19.15.29.12 NMAC criteria. Refer to Table 2.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 60 cubic yards of material were excavated and transported offsite for proper disposal

### **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

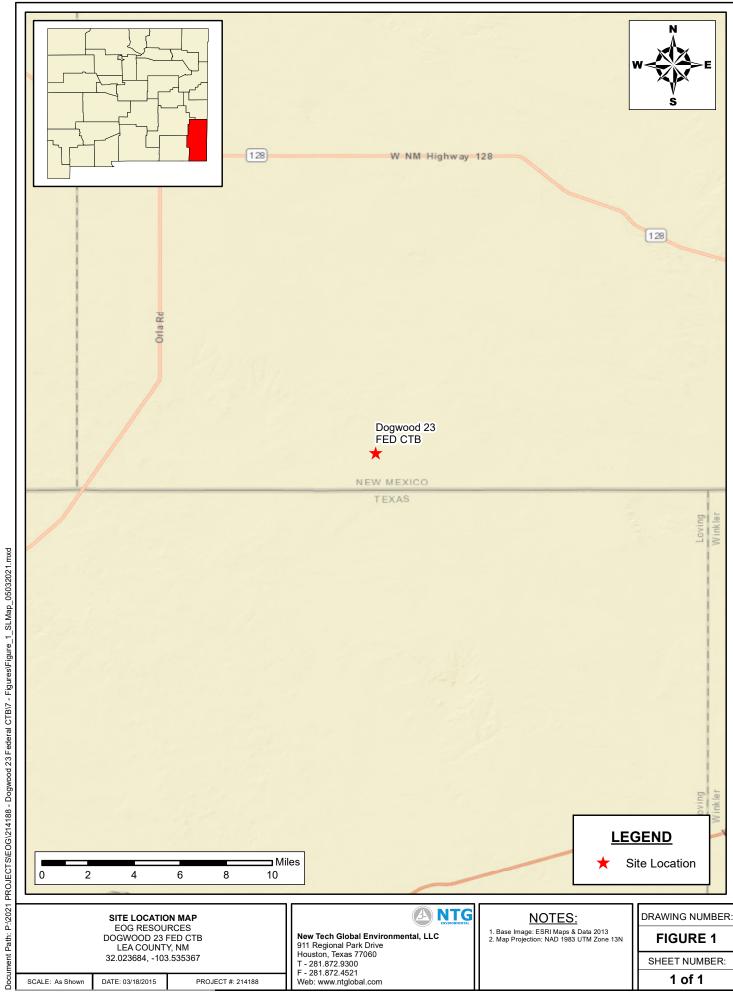
Senior Project Manager

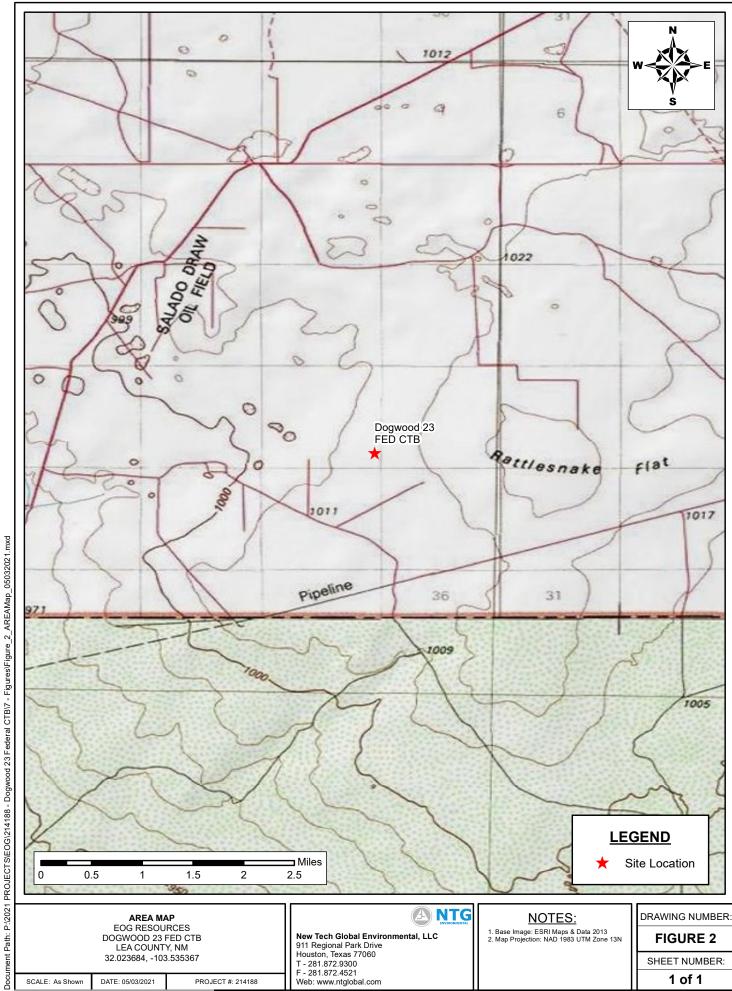
Conner Moehring

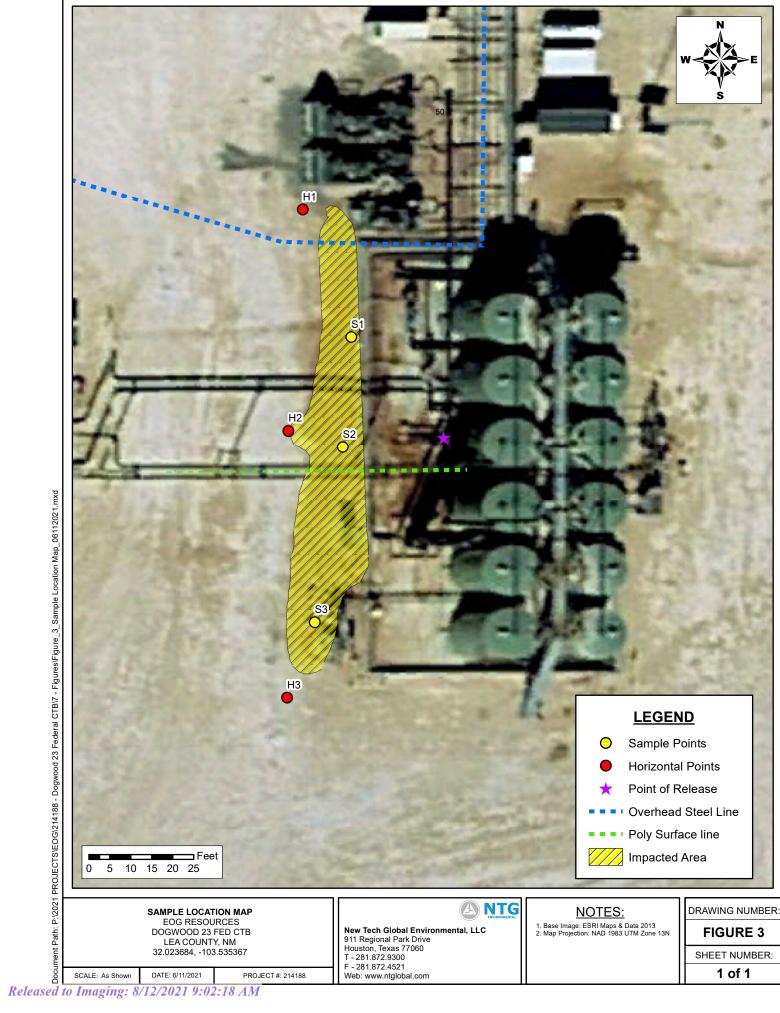
Project Manager



# **Figures**







F - 281.872.4521 Web: www.ntglobal.com

Base Image: ESRI Maps & Data 2013
 Map Projection: NAD 1983 UTM Zone 13N

FIGURE 3

SHEET NUMBER:

PROJECT #: 214188

1 of 1

F - 281.872.4521 Web: www.ntglobal.com

SCALE: As Shown DATE: 5/19/2021 PROJECT #: 214188 Released to Imaging: 8/12/2021 9:02:18 AM

LEA COUNTY, NM 32.023684, -103.535367

Base Image: ESRI Maps & Data 2013
 Map Projection: NAD 1983 UTM Zone 13N

FIGURE 4

SHEET NUMBER:

1 of 1



**Tables** 

Table 1
EOG Resources
Dogwood 23 Fed CTB
Lea County, New Mexico

Commis ID	Dete	Sample		TPF	l (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
Sample ID	Date Depth	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX (mg/kg)	(mg/kg)
S-1	4/26/2021	0-0.5	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	189
S-2	4/26/2021	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	338
S-3	4/26/2021	0-0.5	1,300	7,470	891	9,660	0.0301	4.44	0.258	26.2	32.4	1,160
H-1	4/26/2021	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	349
H-2	4/26/2021	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	0.00871	0.00871	147
H-3	4/26/2021	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	13,100
Regulate	ory Limits					100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

(-) Not Analyzed

A - Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

Exceeds RRALs

Table 2
EOG Resources
Dogwood 23 FED CTB
Lea County, New Mexico

Comple ID	Data	Excavation		TPH (mg/kg)				Toluene	luene Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
CS-1	5/12/2021	1	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	39.5
CS-2	5/12/2021	1	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	38.7
CS-3	5/12/2021	1	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	32.2
CS-4	5/12/2021	1	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	33.3
CS-5	5/12/2021	1	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	33.1
SW-1	5/12/2021	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	57.5
SW-2	5/12/2021	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	64.8
SW-3	5/12/2021	-	<50.0	293	<50.0	293	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	72.6
<b>5</b> 5	5/18/2021	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	11.1
SW-4	5/12/2021	-	<49.9	170	<49.9	170	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	68.3
<b>311</b> 4	5/18/2021	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	11.5
SW-5	5/12/2021	-	<50.0	116	<50.0	116	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	81.1
341-3	5/18/2021	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	12.1
SW-6	5/12/2021	-	<49.8	67.6	<49.8	67.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	95.6
SW-7	5/12/2021		<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	47.2
Regulate	ory Limits					100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

(-) Not Analyzed

A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

Excavated



Photo Log

## PHOTOGRAPHIC LOG

#### **EOG Resources**

### Photograph No. 1

Facility: Dogwood 23 Federal CTB

County: Lea County, New Mexico

Description:

View South of sampled points (1-3) Initial assessment



#### Photograph No. 2

Facility: Dogwood 23 Federal CTB

County: Lea County, New Mexico

**Description:** 

View North, of confirmation samples (1-5)



### Photograph No. 3

Facility: Dogwood 23 Federal CTB

County: Lea County, New Mexico

**Description:** 

View North, of confirmation samples (1-3)



## PHOTOGRAPHIC LOG

#### **EOG Resources**

### Photograph No. 4

Facility: Dogwood 23 Federal CTB

County: Lea County, New Mexico

Description:

View South of Lined facility



## Photograph No. 5

Facility: Dogwood 23 Federal CTB

County: Lea County, New Mexico

**Description:** 

View South of backfill area



### Photograph No. 6

Facility: Dogwood 23 Federal CTB

County: Lea County, New Mexico

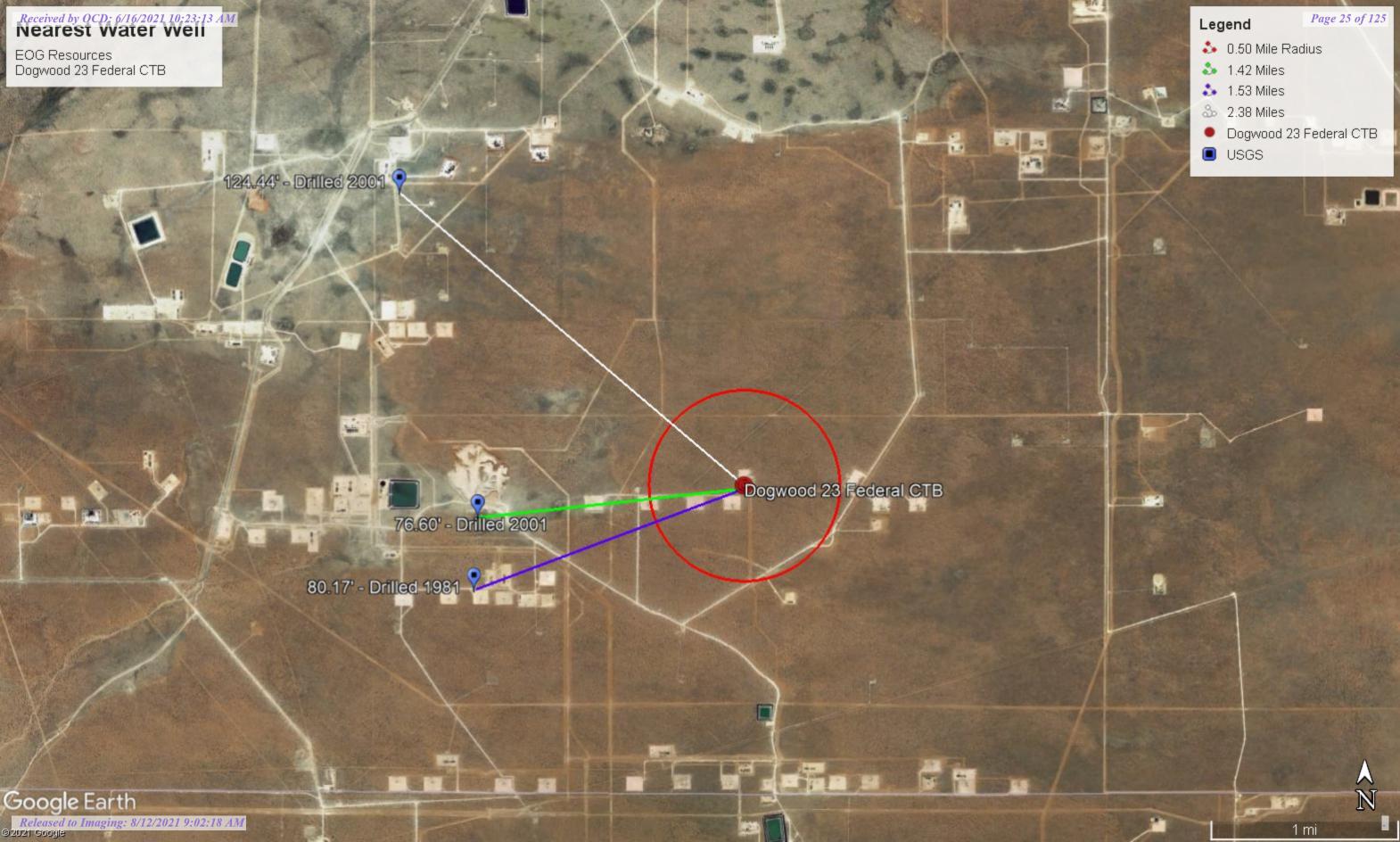
**Description:** 

View North of backfill area



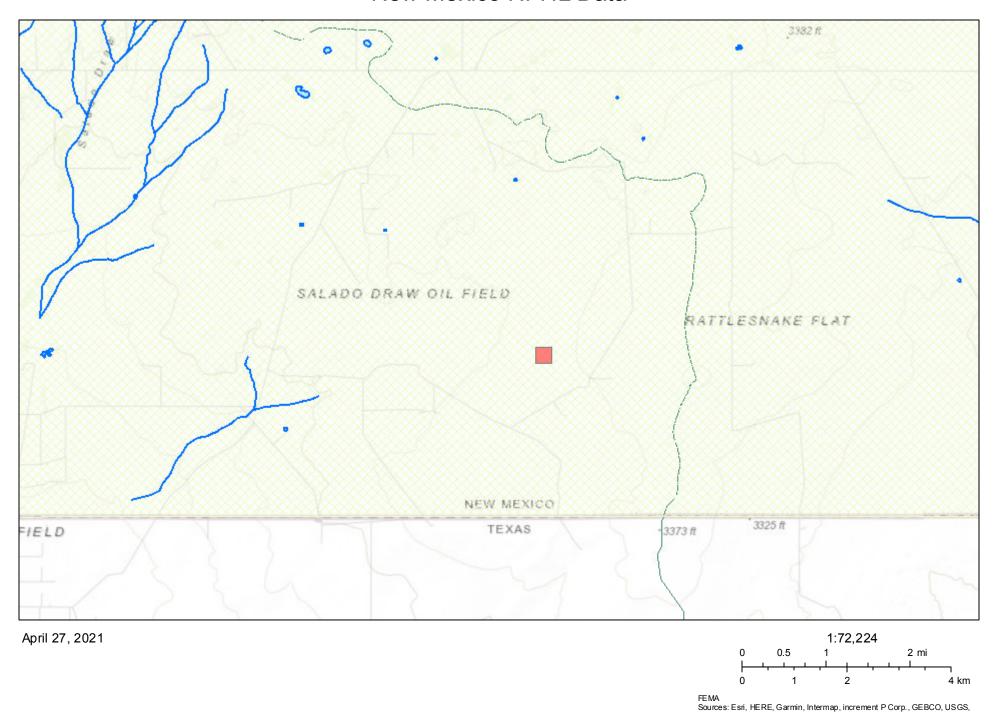


# Appendix B





# New Mexico NFHL Data





**National Water Information System: Mapper** 





# 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.)

(R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

	POD											
POD Number	Sub- Code basin	County		Q Q 16 4		Tws	Rna	х	Υ	-	_	Water Column
C 02270	CUB	LE				26S		636063	3543722 🎒	150	125	25
<u>C 02273</u>	CUB	LE		1 2	21	26S	33E	634549	3545134* 🌍	160	120	40
C 02285 POD1	CUB	LE	1 4	4 4	03	26S	33E	636613	3548855 🌍	220	220	0
C 02286	CUB	LE	3 4	4 4	03	26S	33E	636470	3548714 🌍	220	175	45
C 02287	С	LE	3 4	4 4	03	26S	33E	636427	3548708 🎒	220		
C 02288	CUB	LE	4 4	4 4	03	26S	33E	636646	3548758 🌍	220	180	40
C 02289	CUB	LE	4 4	4 4	03	26S	33E	636612	3548675* 🌍	200	160	40
<u>C 02290</u>	CUB	LE	4 4	4 4	03	26S	33E	636538	3548770 🌍	200	160	40
C 02293	CUB	LE	2 2	2 1	14	26S	33E	637501	3546975 🌍	200	135	65
C 02294	CUB	LE	4 4	4 3	11	26S	33E	637465	3547003 🌍	200	145	55
C 02295	CUB	LE	2 2	2 4	12	26S	33E	639865	3547624 🎒	250	200	50
C 03577 POD1	CUB	LE	3 3	3 3	22	26S	33E	636010	3543771 🎒	750	110	640
C 03596 POD1	С	LE	3 3	3 4	22	26S	33E	636017	3543756 🌑	225		

Average Depth to Water: 157 feet

> Minimum Depth: 110 feet

> Maximum Depth: 220 feet

Record Count: 13

PLSS Search:

Township: 26S Range: 33E

\*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.



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Data Category: Geographic Area:

Groundwater ✓ New Mexico ✓ GO

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#### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

• 320059103333501

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 320059103333501 26S.33E.27.21112

Lea County, New Mexico

Latitude 32°01'16.0", Longitude 103°33'33.9" NAD83

Land-surface elevation 3,252.00 feet above NGVD29

The depth of the well is 200 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) 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 of measurement	? Water- level approval status
954-07-26		D	62610		3172.29	NGVD29	1	Z			
954-07-26		D	62611		3173.87	NAVD88	1	Z			
954-07-26		D	72019	79.71			1	Z			
976-01-08		D	62610		3175.48	NGVD29	1	Z			
976-01-08		D	62611		3177.06	NAVD88	1	Z			
976-01-08		D	72019	76.52			1	Z			
986-03-04		D	62610		3174.86	NGVD29	1	Z			
986-03-04		D			3176.44	NAVD88	1	Z			
.986-03-04		D		77.14			1	Z			
.990-11-27		D			3175.46	NGVD29	1	Z			
.990-11-27		D			3177.04	NAVD88	1	Z			
.990-11-27		D		76.54			1	Z			
.996-03-05		D			3174.61	NGVD29	1	S			
.996-03-05		D			3176.19	NAVD88	1	S			
.996-03-05		D		77.39			1	S			
2001-02-27		D			3175.40	NGVD29	1	S			
2001-02-27		D			3176.98	NAVD88	1	S			
001-02-27		D	72019	76.60			1	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

Section	Code	Description
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
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	А	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?

Page Contact Information: New Mexico Water Data Maintainer Page Last Modified: 2021-04-27 12:30:30 EDT

0.4 0.35 nadww01





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#### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

• 320056103333501

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 320056103333501 26S.33E.27.21132

Lea County, New Mexico Latitude 32°00'56", Longitude 103°33'35" NAD27

Land-surface elevation 3,273 feet above NAVD88

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) 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 of measurement	? Water- level approval status
1970-12-07		D	62610		3195.49	NGVD29	1	Z			Α
1970-12-07		D	62611		3197.07	NAVD88	1	Z			А
1970-12-07		D	72019	75.93			1	Z			Α
1976-01-08		D	62610		3195.65	NGVD29	1	Z			Α
1976-01-08		D	62611		3197.23	NAVD88	1	Z			Α
1976-01-08		D	72019	75.77			1	Z			Α
1981-03-25		D	62610		3191.25	NGVD29	1	Z			Α
1981-03-25		D	62611		3192.83	NAVD88	1	Z			Α
1981-03-25		D	72019	80.17			1	Z			А

#### 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
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
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?

Page Contact Information: New Mexico Water Data Maintainer Page Last Modified: 2021-04-27 12:26:56 EDT

0.34 0.31 nadww01

USA.gov

surface vertical datum  Groundwater V New Mexico V			Water-level date-time accuracy	Parameter code	level, feet below land surface	level, feet above specific vertical datum	vertical datum	Status	M
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\* IMPORTANT: Next Generation Station Page

#### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

• 320245103335901

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 320245103335901 26S.33E.10.334343

Lea County, New Mexico Latitude 32°02'45", Longitude 103°33'59" NAD27

Land-surface elevation 3,291 feet above NAVD88

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) 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 of measurement	? Water- level approval status
1970-12-07		D	62610		3162.10	NGVD29	3	Z			
1970-12-07		D	62611		3163.68	NAVD88	3	Z			
1970-12-07		D	72019	127.32			3	Z			
1976-01-08		D	62610		3165.46	NGVD29	1	Z			
1976-01-08		D	62611		3167.04	NAVD88	1	Z			
1976-01-08		D	72019	123.96			1	Z			
1981-03-25		D	62610		3165.27	NGVD29	1	Z			
1981-03-25		D	62611		3166.85	NAVD88	1	Z			
1981-03-25		D	72019	124.15			1	Z			
1986-03-04		D	62610		3165.01	NGVD29	1	Z			
1986-03-04		D	62611		3166.59	NAVD88	1	Z			
1986-03-04		D	72019	124.41			1	Z			
1990-11-27		D	62610		3164.82	NGVD29	1	Z			
1990-11-27		D	62611		3166.40	NAVD88	1	Z			
1990-11-27		D	72019	124.60			1	Z			
1996-03-05		D	62610		3164.92	NGVD29	1	S			
1996-03-05		D	62611		3166.50	NAVD88	1	S			
1996-03-05		D	72019	124.50			1	S			
2001-02-27		D	62610		3164.98	NGVD29	1	S			
2001-02-27		D	62611		3166.56	NAVD88	1	S			
2001-02-27		D	72019	124.44			1	S			

Explanation

Section Code Description



# Appendix C



# **Environment Testing America**

# **ANALYTICAL REPORT**

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

Laboratory Job ID: 880-1658-1

Laboratory Sample Delivery Group: Lea Co, NM

Client Project/Site: Dogwood 23 Fed CTB

For:

NT Global 701 Tradewinds Blvd Midland, Texas 79706

Attn: Mike Carmona

MAMER

Authorized for release by: 4/30/2021 6:42:12 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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Released to Imaging: 8/12/2021 9:02:18 AM

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

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

Client: NT Global

Project/Site: Dogwood 23 Fed CTB

Laboratory Job ID: 880-1658-1

SDG: Lea Co, NM

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## **Definitions/Glossary**

Client: NT Global Job ID: 880-1658-1 Project/Site: Dogwood 23 Fed CTB

SDG: Lea Co, NM

**Qualifiers** 

**GC VOA** Qualifier

**Qualifier Description** S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

**GC Semi VOA** 

Qualifier **Qualifier Description** 

S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

**HPLC/IC** 

Qualifier **Qualifier Description** 

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 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)

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML Most Probable Number MPN MQL Method Quantitation Limit

Not Calculated NC

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent Positive / Present POS

**PQL Practical Quantitation Limit** 

**PRES** Presumptive QC **Quality Control** 

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

**TNTC** Too Numerous To Count

### **Case Narrative**

Client: NT Global Job ID: 880-1658-1 Project/Site: Dogwood 23 Fed CTB SDG: Lea Co, NM

Job ID: 880-1658-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative 880-1658-1

### Receipt

The samples were received on 4/27/2021 5:03 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

### **GC VOA**

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-1 (0-6") (880-1658-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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 Job ID: 880-1658-1 Project/Site: Dogwood 23 Fed CTB SDG: Lea Co, NM

Client Sample ID: S-1 (0-6")

Lab Sample ID: 880-1658-1

Date Collected: 04/26/21 00:00 Matrix: Solid Date Received: 04/27/21 17:03

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/27/21 13:10	04/29/21 08:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/27/21 13:10	04/29/21 08:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/27/21 13:10	04/29/21 08:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/27/21 13:10	04/29/21 08:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/27/21 13:10	04/29/21 08:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/27/21 13:10	04/29/21 08:28	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/27/21 13:10	04/29/21 08:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				04/27/21 13:10	04/29/21 08:28	1
1,4-Difluorobenzene (Surr)	92		70 - 130				04/27/21 13:10	04/29/21 08:28	1
Method: 8015B NM - Diesel Ran		RO) (GC)							
Method: 8015B NM - Diesel Rang Analyte	ge Organics (D	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared 04/28/21 09:54	<b>Analyzed</b> 04/29/21 05:12	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D Result <50.1	Qualifier U	RL	MDL	mg/Kg	<u> </u>	04/28/21 09:54	04/29/21 05:12	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D	Qualifier U	RL	MDL		<u> </u>	·		1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D Result <50.1	Qualifier U	RL	MDL	mg/Kg	<u> </u>	04/28/21 09:54	04/29/21 05:12	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <50.1	Qualifier U U	RL 50.1	MDL	mg/Kg mg/Kg	<u>D</u>	04/28/21 09:54 04/28/21 09:54	04/29/21 05:12 04/29/21 05:12	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D)  Result  <50.1  <50.1	Qualifier U U U U	RL 50.1 50.1 50.1	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/28/21 09:54 04/28/21 09:54 04/28/21 09:54	04/29/21 05:12 04/29/21 05:12 04/29/21 05:12	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	ge Organics (D) Result <50.1 <50.1 <50.1 <50.1	Qualifier U U U U	RL 50.1 50.1 50.1 50.1	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/28/21 09:54 04/28/21 09:54 04/28/21 09:54 04/28/21 09:54	04/29/21 05:12 04/29/21 05:12 04/29/21 05:12 04/29/21 05:12	1 1 1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH  Surrogate	ge Organics (D)  Result  <50.1  <50.1  <50.1  <50.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1  <80.1	Qualifier U U U U	RL 50.1 50.1 50.1 50.1 <i>Limits</i>	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/28/21 09:54 04/28/21 09:54 04/28/21 09:54 04/28/21 09:54 <b>Prepared</b>	04/29/21 05:12 04/29/21 05:12 04/29/21 05:12 04/29/21 05:12 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH  Surrogate 1-Chlorooctane	ge Organics (D)  Result  <50.1  <50.1  <50.1  <50.1  <50.1  <50.1   70.1  70.1  70.1  70.1  70.1  70.1  70.1  70.1  70.1  70.1	Qualifier U U U Qualifier	RL 50.1 50.1 50.1 50.1 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u> </u>	04/28/21 09:54 04/28/21 09:54 04/28/21 09:54 04/28/21 09:54 Prepared 04/28/21 09:54	04/29/21 05:12 04/29/21 05:12 04/29/21 05:12 04/29/21 05:12 <b>Analyzed</b> 04/29/21 05:12	Dil Fac  1  1  1  1  Dil Fac

Client Sample ID: S-2 (0-6") Lab Sample ID: 880-1658-2 Date Collected: 04/26/21 00:00

189

5.03

mg/Kg

Date Received: 04/27/21 17:03

Chloride

(GRO)-C6-C10

Released to Imaging: 8/12/2021 9:02:18 AM

Method: 8021B - Volatile Orga	· · · · · · · · · · · · · · · · · · ·	•							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/27/21 13:10	04/29/21 08:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/27/21 13:10	04/29/21 08:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/27/21 13:10	04/29/21 08:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/27/21 13:10	04/29/21 08:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/27/21 13:10	04/29/21 08:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/27/21 13:10	04/29/21 08:49	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/27/21 13:10	04/29/21 08:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				04/27/21 13:10	04/29/21 08:49	1
1,4-Difluorobenzene (Surr)	92		70 - 130				04/27/21 13:10	04/29/21 08:49	1
- Method: 8015B NM - Diesel Ra	ange 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		04/28/21 09:54	04/29/21 05:34	1

Eurofins Xenco, Midland

Dil Fac

**Matrix: Solid** 

04/29/21 02:18

Job ID: 880-1658-1

Client: NT Global Project/Site: Dogwood 23 Fed CTB SDG: Lea Co, NM

Client Sample ID: S-2 (0-6")

Date Received: 04/27/21 17:03

Lab Sample ID: 880-1658-2 Date Collected: 04/26/21 00:00

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		04/28/21 09:54	04/29/21 05:34	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/28/21 09:54	04/29/21 05:34	1
Total TPH	<49.9	U	49.9		mg/Kg		04/28/21 09:54	04/29/21 05:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				04/28/21 09:54	04/29/21 05:34	1
o-Terphenyl	88		70 <sub>-</sub> 130				04/28/21 09:54	04/29/21 05:34	1

Client Sample ID: S-3 (0-6") Lab Sample ID: 880-1658-3

RL

5.04

MDL Unit

mg/Kg

Prepared

D

Result Qualifier

338

Date Collected: 04/26/21 00:00 Matrix: Solid

Date Received: 04/27/21 17:03

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0301		0.00200		mg/Kg		04/27/21 13:10	04/29/21 09:09	
Toluene	4.44		0.0996		mg/Kg		04/29/21 10:35	04/30/21 15:34	50
Ethylbenzene	0.258		0.00200		mg/Kg		04/27/21 13:10	04/29/21 09:09	•
m-Xylene & p-Xylene	20.8		0.199		mg/Kg		04/29/21 10:35	04/30/21 15:34	50
o-Xylene	5.37		0.0996		mg/Kg		04/29/21 10:35	04/30/21 15:34	50
Xylenes, Total	26.2		0.199		mg/Kg		04/29/21 10:35	04/30/21 15:34	50
Total BTEX	32.4		0.199		mg/Kg		04/29/21 10:35	04/30/21 15:34	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	197	S1+	70 - 130				04/27/21 13:10	04/29/21 09:09	1
1,4-Difluorobenzene (Surr)	125		70 - 130				04/27/21 13:10	04/29/21 09:09	
Method: 8015B NM - Diesel Ra Analyte	Result	RO) (GC) Qualifier	RL	MDL		<u>D</u>	Prepared 04/04/04/04/54	Analyzed	Dil Fa
	•		<b>RL</b> 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 04/28/21 09:54	<b>Analyzed</b> 04/29/21 05:54	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result			MDL		<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 1300 7470		49.9	MDL	mg/Kg	<u>D</u>	04/28/21 09:54 04/28/21 09:54	04/29/21 05:54 04/29/21 05:54	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 1300		49.9	MDL	mg/Kg	<u>D</u>	04/28/21 09:54	04/29/21 05:54	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result 1300 7470		49.9	MDL	mg/Kg	<u>D</u>	04/28/21 09:54 04/28/21 09:54	04/29/21 05:54 04/29/21 05:54	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 1300 7470 891	Qualifier	49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u> </u>	04/28/21 09:54 04/28/21 09:54 04/28/21 09:54	04/29/21 05:54 04/29/21 05:54 04/29/21 05:54	· · · · · · · · · · · · · · · · · · ·
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result 1300 7470 891 9660 %Recovery	Qualifier	49.9 49.9 49.9	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/28/21 09:54 04/28/21 09:54 04/28/21 09:54 04/28/21 09:54	04/29/21 05:54 04/29/21 05:54 04/29/21 05:54 04/29/21 05:54	· · · · · · · · · · · · · · · · · · ·
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result 1300 7470 891 9660 %Recovery	Qualifier  Qualifier	49.9 49.9 49.9 <b>Limits</b>	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/28/21 09:54 04/28/21 09:54 04/28/21 09:54 04/28/21 09:54 <b>Prepared</b>	04/29/21 05:54 04/29/21 05:54 04/29/21 05:54 04/29/21 05:54 Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH  Surrogate 1-Chlorooctane	Result 1300 7470 891 9660 %Recovery 132 79	Qualifier  Qualifier S1+	49.9 49.9 49.9 49.9  Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u> </u>	04/28/21 09:54  04/28/21 09:54  04/28/21 09:54  04/28/21 09:54  Prepared  04/28/21 09:54	04/29/21 05:54 04/29/21 05:54 04/29/21 05:54 04/29/21 05:54 Analyzed 04/29/21 05:54	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result   1300   7470   891   9660     %Recovery   132   79     79     79     79     79     79     79     79     79     79     79     79     79     79     79     79     79     79     79   79     79	Qualifier  Qualifier S1+	49.9 49.9 49.9 49.9  Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/28/21 09:54  04/28/21 09:54  04/28/21 09:54  04/28/21 09:54  Prepared  04/28/21 09:54	04/29/21 05:54 04/29/21 05:54 04/29/21 05:54 04/29/21 05:54 Analyzed 04/29/21 05:54	Dil Fac

Eurofins Xenco, Midland

Dil Fac

Analyzed

04/29/21 02:23

# **Surrogate Summary**

Client: NT Global Job ID: 880-1658-1 Project/Site: Dogwood 23 Fed CTB SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recov
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-1658-1	S-1 (0-6")	104	98	
880-1658-2	S-2 (0-6")	96	88	
880-1658-3	S-3 (0-6")	132 S1+	79	
LCS 880-2429/2-A	Lab Control Sample	137 S1+	119	
LCSD 880-2429/3-A	Lab Control Sample Dup	124	107	
MB 880-2429/1-A	Method Blank	112	106	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Job ID: 880-1658-1

Client: NT Global Project/Site: Dogwood 23 Fed CTB SDG: Lea Co, NM

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

Lab Sample ID: MB 880-2385/5-A

**Matrix: Solid** 

**Analysis Batch: 2445** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2385

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/27/21 13:10	04/29/21 01:18	
Toluene	<0.00200	U	0.00200		mg/Kg		04/27/21 13:10	04/29/21 01:18	•
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/27/21 13:10	04/29/21 01:18	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/27/21 13:10	04/29/21 01:18	
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/27/21 13:10	04/29/21 01:18	•
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/27/21 13:10	04/29/21 01:18	•
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/27/21 13:10	04/29/21 01:18	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	04/27/21 13:10	04/29/21 01:18	1
1,4-Difluorobenzene (Surr)	88		70 - 130	04/27/21 13:10	04/29/21 01:18	1

Lab Sample ID: LCS 880-2385/1-A **Client Sample ID: Lab Control Sample** 

**Matrix: Solid** 

**Analysis Batch: 2445** 

Prep Type: Total/NA

Prep Batch: 2385

		Spike	LCS	LCS				%Rec.	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	0.100	0.07382		mg/Kg		74	70 - 130	
	Toluene	0.100	0.07586		mg/Kg		76	70 - 130	
	Ethylbenzene	0.100	0.08353		mg/Kg		84	70 - 130	
	m-Xylene & p-Xylene	0.200	0.1749		mg/Kg		87	70 - 130	
	o-Xylene	0.100	0.09200		mg/Kg		92	70 - 130	
ı									

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	109	70 - 130
1.4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: LCSD 880-2385/2-A

**Matrix: Solid** 

**Analysis Batch: 2445** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2385

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07629		mg/Kg		76	70 - 130	3	35
Toluene	0.100	0.07779		mg/Kg		78	70 - 130	3	35
Ethylbenzene	0.100	0.08518		mg/Kg		85	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1776		mg/Kg		89	70 - 130	2	35
o-Xylene	0.100	0.09308		mg/Kg		93	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	108	70 - 130
1.4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: MB 880-2417/5-A

**Matrix: Solid** 

**Analysis Batch: 2445** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2417

	MB	MB							
Analyte	Result	Qualifier	RL	MDL (	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	r	ma/Ka		04/28/21 09:00	04/28/21 14:28	1

## **QC Sample Results**

Client: NT Global Job ID: 880-1658-1
Project/Site: Dogwood 23 Fed CTB SDG: Lea Co, NM

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

Lab Sample ID: MB 880-2417/5-A

**Matrix: Solid** 

**Analysis Batch: 2445** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2417

	MB	МВ
yte	Result	Qua

Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200		mg/Kg		04/28/21 09:00	04/28/21 14:28	1
<0.00200	U	0.00200		mg/Kg		04/28/21 09:00	04/28/21 14:28	1
<0.00400	U	0.00400		mg/Kg		04/28/21 09:00	04/28/21 14:28	1
<0.00200	U	0.00200		mg/Kg		04/28/21 09:00	04/28/21 14:28	1
<0.00400	U	0.00400		mg/Kg		04/28/21 09:00	04/28/21 14:28	1
<0.00400	U	0.00400		mg/Kg		04/28/21 09:00	04/28/21 14:28	1
	<0.00200 <0.00200 <0.00400 <0.00200 <0.00400	Result   Qualifier   U	<0.00200	<0.00200 U 0.00200 <0.00200 U 0.00200 <0.00400 U 0.00400 <0.00200 U 0.00200 <0.00400 U 0.00400	<0.00200	<0.00200	<0.00200	<0.00200

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	04	4/28/21 09:00	04/28/21 14:28	1
1,4-Difluorobenzene (Surr)	92		70 - 130	04	4/28/21 09:00	04/28/21 14:28	1

Lab Sample ID: LCS 880-2417/1-A

Matrix: Solid

**Analysis Batch: 2445** 

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 2417

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.07918 mg/Kg 79 70 - 130 0.100 Toluene 0.08112 81 70 - 130 mg/Kg Ethylbenzene 0.100 0.08881 mg/Kg 89 70 - 130 m-Xylene & p-Xylene 0.200 0.1865 mg/Kg 93 70 - 130 o-Xylene 0.100 0.09652 mg/Kg 97 70 - 130

LCS LCS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-2417/2-A

Matrix: Solid

**Analysis Batch: 2445** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2417

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08004		mg/Kg		80	70 - 130	1	35
Toluene	0.100	0.08054		mg/Kg		81	70 - 130	1	35
Ethylbenzene	0.100	0.08712		mg/Kg		87	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1819		mg/Kg		91	70 - 130	3	35
o-Xylene	0.100	0.09399		mg/Kg		94	70 - 130	3	35

LCSD LCSD

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1.4-Difluorobenzene (Surr)	99		70 <sub>-</sub> 130

Lab Sample ID: MB 880-2477/5-A

**Matrix: Solid** 

Analysis Batch: 2546

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2477

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg	 04/29/21 10:35	04/30/21 14:43	1
Toluene	<0.00200	U	0.00200		mg/Kg	04/29/21 10:35	04/30/21 14:43	1

Eurofins Xenco, Midland

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Client: NT Global

Job ID: 880-1658-1 Project/Site: Dogwood 23 Fed CTB

SDG: Lea Co, NM

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

Lab Sample ID: MB 880-2477/5-A **Matrix: Solid** 

Analysis Batch: 2546

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2477

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/29/21 10:35	04/30/21 14:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/29/21 10:35	04/30/21 14:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/29/21 10:35	04/30/21 14:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/29/21 10:35	04/30/21 14:43	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/29/21 10:35	04/30/21 14:43	1

мв мв

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	04/29/21 10:35	04/30/21 14:43	1
1,4-Difluorobenzene (Surr)	88		70 - 130	04/29/21 10:35	04/30/21 14:43	1

Lab Sample ID: LCS 880-2477/1-A **Client Sample ID: Lab Control Sample** 

**Matrix: Solid** 

**Analysis Batch: 2546** 

Prep Type: Total/NA Prep Batch: 2477

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1084 108 70 - 130 mg/Kg Toluene 0.100 0.1020 102 70 - 130 mg/Kg 0.100 Ethylbenzene 0.1163 70 - 130 mg/Kg 116 m-Xylene & p-Xylene 0.200 0.2150 mg/Kg 107 70 - 130 o-Xylene 0.100 70 - 130 0.1212 mg/Kg 121

LCS LCS

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	109	70 - 130
1 4-Difluorobenzene (Surr)	113	70 130

Lab Sample ID: LCSD 880-2477/2-A

**Matrix: Solid** 

**Analysis Batch: 2546** 

Client Sample ID: La	b Control Sample D	up
	David Torres Takeli	

Prep Type: Total/NA

Prep Batch: 2477

Spike LCSD LCSD %Rec. RPD Added RPD Limit Analyte Result Qualifier Unit %Rec Limits Benzene 0.100 0.1091 mg/Kg 109 70 - 130 35 Toluene 0.100 0.1152 mg/Kg 115 70 - 130 12 35 0.100 Ethylbenzene 0.1154 70 - 130 35 mg/Kg 115 m-Xylene & p-Xylene 0.200 0.2092 105 70 - 130 35 mg/Kg 0.100 o-Xylene 0.1157 116 70 - 130 35 mg/Kg

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	112	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

## QC Sample Results

Client: NT Global Job ID: 880-1658-1 Project/Site: Dogwood 23 Fed CTB SDG: Lea Co, NM

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

Lab Sample ID: MB 880-2429/1-A

**Matrix: Solid** 

**Analysis Batch: 2425** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2429

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/28/21 09:54	04/28/21 21:10	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/28/21 09:54	04/28/21 21:10	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/28/21 09:54	04/28/21 21:10	1
Total TPH	<50.0	U	50.0		mg/Kg		04/28/21 09:54	04/28/21 21:10	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	04/28/21 09:54	04/28/21 21:10	1
o-Terphenyl	106		70 - 130	04/28/21 09:54	04/28/21 21:10	1

Lab Sample ID: LCS 880-2429/2-A

Matrix: Solid

**Analysis Batch: 2425** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 2429

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1304 130 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1077 mg/Kg 108 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	137	S1+	70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: LCSD 880-2429/3-A

**Matrix: Solid** 

**Analysis Batch: 2425** 

Client !	Sample	ID: Lah	Control	Sample	Dun
Olielit '	Jailipie	ID. Lab	COLLIG	Jailible	Dub

Prep Type: Total/NA

Prep Batch: 2429

-	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	 1000	1248		mg/Kg		125	70 - 130	4	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	986.0		mg/Kg		99	70 - 130	9	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	107		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2442/1-A

**Matrix: Solid** 

**Analysis Batch: 2465** 

Client Sample ID: Method Blank

**Prep Type: Soluble** 

MB MB

Analyte Result Qualifier RL MDL Unit D Prepared Dil Fac Analyzed <5.00 U Chloride 5.00 mg/Kg 04/28/21 23:53

## **QC Sample Results**

Client: NT Global Job ID: 880-1658-1
Project/Site: Dogwood 23 Fed CTB SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-2442/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 2465

Chloride

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	256.0		mg/Kg		102	90 - 110	

Lab Sample ID: LCSD 880-2442/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 2465

253.9

mg/Kg

102

90 - 110

250

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# **QC Association Summary**

Client: NT Global Job ID: 880-1658-1
Project/Site: Dogwood 23 Fed CTB SDG: Lea Co, NM

**GC VOA** 

Prep Batch: 2385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1658-1	S-1 (0-6")	Total/NA	Solid	5035	
880-1658-2	S-2 (0-6")	Total/NA	Solid	5035	
880-1658-3	S-3 (0-6")	Total/NA	Solid	5035	
MB 880-2385/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2385/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2385/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 2417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-2417/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2417/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2417/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 2445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1658-1	S-1 (0-6")	Total/NA	Solid	8021B	2385
880-1658-2	S-2 (0-6")	Total/NA	Solid	8021B	2385
880-1658-3	S-3 (0-6")	Total/NA	Solid	8021B	2385
MB 880-2385/5-A	Method Blank	Total/NA	Solid	8021B	2385
MB 880-2417/5-A	Method Blank	Total/NA	Solid	8021B	2417
LCS 880-2385/1-A	Lab Control Sample	Total/NA	Solid	8021B	2385
LCS 880-2417/1-A	Lab Control Sample	Total/NA	Solid	8021B	2417
LCSD 880-2385/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2385
LCSD 880-2417/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2417

Prep Batch: 2477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1658-3	S-3 (0-6")	Total/NA	Solid	5035	
MB 880-2477/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2477/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2477/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

**Analysis Batch: 2546** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1658-3	S-3 (0-6")	Total/NA	Solid	8021B	2477
MB 880-2477/5-A	Method Blank	Total/NA	Solid	8021B	2477
LCS 880-2477/1-A	Lab Control Sample	Total/NA	Solid	8021B	2477
LCSD 880-2477/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2477

**GC Semi VOA** 

Analysis Batch: 2425

_ Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1658-1	S-1 (0-6")	Total/NA	Solid	8015B NM	2429
880-1658-2	S-2 (0-6")	Total/NA	Solid	8015B NM	2429
880-1658-3	S-3 (0-6")	Total/NA	Solid	8015B NM	2429
MB 880-2429/1-A	Method Blank	Total/NA	Solid	8015B NM	2429
LCS 880-2429/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2429
LCSD 880-2429/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2429

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# **QC Association Summary**

Client: NT Global Job ID: 880-1658-1 Project/Site: Dogwood 23 Fed CTB SDG: Lea Co, NM

GC Semi VOA

Prep Batch: 2429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1658-1	S-1 (0-6")	Total/NA	Solid	8015NM Prep	
880-1658-2	S-2 (0-6")	Total/NA	Solid	8015NM Prep	
880-1658-3	S-3 (0-6")	Total/NA	Solid	8015NM Prep	
MB 880-2429/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2429/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2429/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 2442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1658-1	S-1 (0-6")	Soluble	Solid	DI Leach	
880-1658-2	S-2 (0-6")	Soluble	Solid	DI Leach	
880-1658-3	S-3 (0-6")	Soluble	Solid	DI Leach	
MB 880-2442/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2442/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2442/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 2465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1658-1	S-1 (0-6")	Soluble	Solid	300.0	2442
880-1658-2	S-2 (0-6")	Soluble	Solid	300.0	2442
880-1658-3	S-3 (0-6")	Soluble	Solid	300.0	2442
MB 880-2442/1-A	Method Blank	Soluble	Solid	300.0	2442
LCS 880-2442/2-A	Lab Control Sample	Soluble	Solid	300.0	2442
LCSD 880-2442/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2442

Job ID: 880-1658-1 SDG: Lea Co, NM

Project/Site: Dogwood 23 Fed CTB Client Sample ID: S-1 (0-6")

Client: NT Global

Lab Sample ID: 880-1658-1

Date Collected: 04/26/21 00:00 Date Received: 04/27/21 17:03 Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2385	04/27/21 13:10	KL	XM
Total/NA	Analysis	8021B		1	2445	04/29/21 08:28	KL	XM
Total/NA	Prep	8015NM Prep			2429	04/28/21 09:54	DM	XM
Total/NA	Analysis	8015B NM		1	2425	04/29/21 05:12	AJ	XM
Soluble	Leach	DI Leach			2442	04/28/21 11:05	CH	XM
Soluble	Analysis	300.0		1	2465	04/29/21 02:18	CH	XM

Lab Sample ID: 880-1658-2

**Matrix: Solid** 

Client Sample ID: S-2 (0-6") Date Collected: 04/26/21 00:00 Date Received: 04/27/21 17:03

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2385	04/27/21 13:10	KL	XM
Total/NA	Analysis	8021B		1	2445	04/29/21 08:49	KL	XM
Total/NA	Prep	8015NM Prep			2429	04/28/21 09:54	DM	XM
Total/NA	Analysis	8015B NM		1	2425	04/29/21 05:34	AJ	XM
Soluble	Leach	DI Leach			2442	04/28/21 11:05	CH	XM
Soluble	Analysis	300.0		1	2465	04/29/21 02:23	CH	XM

Lab Sample ID: 880-1658-3

**Matrix: Solid** 

Client Sample ID: S-3 (0-6") Date Collected: 04/26/21 00:00 Date Received: 04/27/21 17:03

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2385	04/27/21 13:10	KL	XM
Total/NA	Analysis	8021B		1	2445	04/29/21 09:09	KL	XM
Total/NA	Prep	5035			2477	04/29/21 10:35	MR	XM
Total/NA	Analysis	8021B		50	2546	04/30/21 15:34	MR	XM
Total/NA	Prep	8015NM Prep			2429	04/28/21 09:54	DM	XM
Total/NA	Analysis	8015B NM		1	2425	04/29/21 05:54	AJ	XM
Soluble	Leach	DI Leach			2442	04/28/21 11:05	СН	XM
Soluble	Analysis	300.0		1	2465	04/29/21 02:28	CH	XM

Laboratory References:

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

# **Accreditation/Certification Summary**

Client: NT Global Job ID: 880-1658-1
Project/Site: Dogwood 23 Fed CTB SDG: Lea Co, NM

## Laboratory: Eurofins Xenco, Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-20-21	06-30-21
The following analytes the agency does not of	• '	it the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes fo
Analysis Method	Prep Method	Matrix	Analyte	
8015B NM	8015NM Prep	Solid	Total TPH	
8021B	5035	Solid	Total BTEX	

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ASTM

XM

## **Method Summary**

Client: NT Global Job ID: 880-1658-1
Project/Site: Dogwood 23 Fed CTB SDG: Lea Co, NM

Method **Method Description** Protocol Laboratory 8021B Volatile Organic Compounds (GC) SW846  $\overline{\mathsf{XM}}$ 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

#### **Protocol References:**

DI Leach

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

Deionized Water Leaching Procedure

Eurofins Xenco, Midland

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# **Sample Summary**

Client: NT Global

Project/Site: Dogwood 23 Fed CTB

Job ID: 880-1658-1

SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Ass
880-1658-1	S-1 (0-6")	Solid	04/26/21 00:00	04/27/21 17:03	
880-1658-2	S-2 (0-6")	Solid	04/26/21 00:00	04/27/21 17:03	
880-1658-3	S-3 (0-6")	Solid	04/26/21 00:00	04/27/21 17:03	

Project Manager ENVIRONMENTA Mike Carmona

Sampler's Name: Project Location Project Number

Lea Co, NM CRM

Due Date Routine Project Name:

Dogwood 23 Fed CTB

Turn Around

ANALYSIS REQUEST

✓ Rush 72 Hrs

Todd Wells@eogresources

City, State ZIP

Midland Tx 79706

Reporting Level II Level III PST/UST

RRP Other

Level IV

State of Project:

Program: UST/PST ☐PRP ☐Brownfields ☐RRC

\_uperfund

**Work Order Comments** 

Deliverables EDD

ADaPT []

Preservative Codes

DI Water: H<sub>2</sub>O

Cool Cool None NO

EOG Resources 5509 Champions Dr

Todd Wells

Bill to: (if different) Company Name

214188

City, State ZIP Address: Company Name

432-813-0263 Midland, TX 79706 701 Tradewinds BLVD NTG Environmental

į	
oou-1008 Chain of Custody	
oo Chain of Custody	
	Work Order No

880-1658 Chain of Custody	
Work Order No:	

	5	3	1 Not An	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 circumstance 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.  Delinquished by (Circums)	Notice Signature of this document and relinquishment of samples constitutes a valid nurchase order from client company to Venny its settlement and relinquishment of samples constitutes a valid nurchase order from client company to Venny its settlement and relinquishment of samples constitutes a valid nurchase order from client company to Venny its settlement and relinquishment of samples constitutes a valid nurchase order from client company to Venny its settlement and relinquishment of samples constitutes a valid nurchase order from client company to Venny its settlement and relinquishment of samples constitutes a valid nurchase order from client company to Venny its settlement and relinquishment of samples constitutes a valid nurchase order from client company to Venny its settlement and the venny its settlement an		Additainal								S-3 (0-6")	S-2 (0-6")	S-1 (0-6")	Sample Identification		Total Containers.	Sample Custody Seals:	Cooler Custody Seals.	Received Intact:	SAMPLE RECEIPT	P0#	Sampler's Name:	1 decreption
			Shame)	only for the cost of \$85.00 will be ap	nent and relinquis	Confidence.	Comments.											ation			Yes No	Yes No	(Yes)	Temp Blank	The second secon	C	Lea (
			<b>*</b>	of samples an oplied to each	hment of sam										4/26/2021	4/26/2021	4/26/2021	Date		,	N.	<b>E</b>	S S	Slank.		CRM	LEG CO, INIVI
			Necesive.	nd shall not as project and a	ples constitu										1	1	-	Time		Corrected .	Temperatu	Correction Factor	Thermometer ID	Xes No			
			Veceived by (Signature	ssume any respo	tes a valid nurch										×	×	×	Soil		Corrected Temperature:	Temperature Reading	Factor	ter ID	Wet Ice:	Oab if rece	TAT starts the day received by the	Due Date
			Jie)	nsibility for a each sample	ase order from													Water	•		え	40,	X <sub>1</sub>	(res	ab if received by 4 30pm	day received	12 Hrs
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Revis			<u>ē</u>															Samp	NaOH+Asco	No.	Zn Acetate+NaOH Zn	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub>	NaHSO <sub>4</sub> NABIS	H³bo' Hb	H₂S0₄ H₂	HCL HCL	Cool Cool
Revised Date 05012020 Rev 2020.1			Date/Time															Sample Comments	NaUH+Ascorbic Acid SAPC	2	NaOH Zn	*SO <sub>3</sub>	\BIS		NaOH Na	HNO, HN	MeOH Me

# **Login Sample Receipt Checklist**

Client: NT Global Job Number: 880-1658-1 SDG Number: Lea Co, NM

Login Number: 1658 List Source: Eurofins Midland

List Number: 1 Creator: Teel, Brianna

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 sample times on COC
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



# **Environment Testing America**

# **ANALYTICAL REPORT**

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

Laboratory Job ID: 880-1660-1

Laboratory Sample Delivery Group: Lea Co, NM

Client Project/Site: Dogwood 23 Fed CTB

For:

NT Global 701 Tradewinds Blvd Midland, Texas 79706

Attn: Mike Carmona

MAMER

Authorized for release by: 4/30/2021 7:59:31 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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

Client: NT Global
Project/Site: Dogwood 23 Fed CTB

Laboratory Job ID: 880-1660-1 SDG: Lea Co, NM

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## **Definitions/Glossary**

Client: NT Global Job ID: 880-1660-1 Project/Site: Dogwood 23 Fed CTB

SDG: Lea Co, NM

**Qualifiers** 

**GC VOA** 

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

**GC Semi VOA** 

Qualifier **Qualifier Description** 

F1 MS and/or MSD recovery exceeds control limits. Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description** 

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 **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

Detection Limit (DoD/DOE) DL

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 Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NFG 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)

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

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

**TNTC** Too Numerous To Count

### **Case Narrative**

Client: NT Global Job ID: 880-1660-1 SDG: Lea Co, NM Project/Site: Dogwood 23 Fed CTB

Job ID: 880-1660-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative 880-1660-1

### Receipt

The samples were received on 4/27/2021 4:06 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°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.

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 Job ID: 880-1660-1 Project/Site: Dogwood 23 Fed CTB SDG: Lea Co, NM

Client Sample ID: H-1 (0-6")

Date Collected: 04/26/21 00:00 Date Received: 04/27/21 16:06

Lab Sample ID: 880-1660-1

Matrix: Solid

Method: 8021B - Volatile Orga	nic Compounds	(GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/28/21 09:00	04/28/21 21:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/28/21 09:00	04/28/21 21:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/28/21 09:00	04/28/21 21:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/28/21 09:00	04/28/21 21:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/28/21 09:00	04/28/21 21:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/28/21 09:00	04/28/21 21:38	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/28/21 09:00	04/28/21 21:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				04/28/21 09:00	04/28/21 21:38	1

94 1,4-Difluorobenzene (Surr) 70 - 130 04/28/21 09:00 04/28/21 21:38

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U F1	49.9		mg/Kg		04/28/21 10:09	04/29/21 22:08	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		04/28/21 10:09	04/29/21 22:08	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/28/21 10:09	04/29/21 22:08	1
Total TPH	<49.9	U	49.9		mg/Kg		04/28/21 10:09	04/29/21 22:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130				04/28/21 10:09	04/29/21 22:08	1

o-Terphenyl	116		70 - 130				04/28/21 10:09	04/29/21 22:08	1
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	349		4.99		mg/Kg			04/29/21 22:02	1

Client Sample ID: H-2 (0-6") Lab Sample ID: 880-1660-2 Date Collected: 04/26/21 00:00

Date Received: 04/27/21 16:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/28/21 09:00	04/28/21 21:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/28/21 09:00	04/28/21 21:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/28/21 09:00	04/28/21 21:58	1
m-Xylene & p-Xylene	0.00626		0.00403		mg/Kg		04/28/21 09:00	04/28/21 21:58	1
o-Xylene	0.00245		0.00202		mg/Kg		04/28/21 09:00	04/28/21 21:58	1
Xylenes, Total	0.00871		0.00403		mg/Kg		04/28/21 09:00	04/28/21 21:58	1
Total BTEX	0.00871		0.00403		mg/Kg		04/28/21 09:00	04/28/21 21:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				04/28/21 09:00	04/28/21 21:58	1
1,4-Difluorobenzene (Surr)	92		70 - 130				04/28/21 09:00	04/28/21 21:58	1
Method: 8015B NM - Diesel Ra	ange 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		04/28/21 10:09	04/29/21 23:12	1

Eurofins Xenco, Midland

**Matrix: Solid** 

(GRO)-C6-C10

Job ID: 880-1660-1

Client: NT Global Project/Site: Dogwood 23 Fed CTB SDG: Lea Co, NM

Client Sample ID: H-2 (0-6")

Date Collected: 04/26/21 00:00 Date Received: 04/27/21 16:06

Lab Sample ID: 880-1660-2

04/29/21 22:17

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		04/28/21 10:09	04/29/21 23:12	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/28/21 10:09	04/29/21 23:12	1
Total TPH	<49.9	U	49.9		mg/Kg		04/28/21 10:09	04/29/21 23:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				04/28/21 10:09	04/29/21 23:12	1
o-Terphenyl	112		70 - 130				04/28/21 10:09	04/29/21 23:12	1
- Mathada 200 0 Aniana Jan Ohm		Oalukla							
Method: 300.0 - Anions, Ion Chr	0 . ,								Dil Fac
Analyte	0 . ,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	

Client Sample ID: H-3 (0-6") Lab Sample ID: 880-1660-3 Date Collected: 04/26/21 00:00

5.05

mg/Kg

147

Date Received: 04/27/21 16:06

Chloride

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 04/28/21 09:00 04/28/21 22:18 mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 04/28/21 09:00 04/28/21 22:18 04/28/21 22:18 Ethylbenzene <0.00200 U 0.00200 mg/Kg 04/28/21 09:00 m-Xylene & p-Xylene <0.00399 U 0.00399 mg/Kg 04/28/21 09:00 04/28/21 22:18 o-Xylene <0.00200 U 0.00200 mg/Kg 04/28/21 09:00 04/28/21 22:18 Xylenes, Total <0.00399 U 0.00399 mg/Kg 04/28/21 09:00 04/28/21 22:18 Total BTEX <0.00399 U 0.00399 04/28/21 09:00 04/28/21 22:18 mg/Kg

Surrogate	%Recovery G	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95	70 - 130	04/28/21 09:00	04/28/21 22:18	1
1,4-Difluorobenzene (Surr)	93	70 - 130	04/28/21 09:00	04/28/21 22:18	1

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

moundar of rob run Brood runi	,	, (00)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		04/28/21 10:09	04/29/21 23:33	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		04/28/21 10:09	04/29/21 23:33	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/28/21 10:09	04/29/21 23:33	1
Total TPH	<49.8	U	49.8		mg/Kg		04/28/21 10:09	04/29/21 23:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				04/28/21 10:09	04/29/21 23:33	1
o-Terphenyl	113		70 - 130				04/28/21 10:09	04/29/21 23:33	1

Method: 300.0 - Anions, Ion Chron							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13100	50.2	mg/Kg			04/30/21 12:40	10

## **Surrogate Summary**

Client: NT Global Job ID: 880-1660-1 Project/Site: Dogwood 23 Fed CTB SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate R
		BFB1	DFBZ1	_
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-1660-1	H-1 (0-6")	96	94	
880-1660-2	H-2 (0-6")	100	92	
880-1660-3	H-3 (0-6")	95	93	
LCS 880-2417/1-A	Lab Control Sample	106	99	
LCSD 880-2417/2-A	Lab Control Sample Dup	101	99	
MB 880-2417/5-A	Method Blank	89	92	
Surrogate Legend				
BFB = 4-Bromofluorobenz	zene (Surr)			
DFBZ = 1,4-Difluorobenze	ene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-1660-1	H-1 (0-6")	116	116	
880-1660-1 MS	H-1 (0-6")	124	111	
880-1660-1 MSD	H-1 (0-6")	122	111	
880-1660-2	H-2 (0-6")	113	112	
880-1660-3	H-3 (0-6")	116	113	
LCS 880-2430/2-A	Lab Control Sample	115	108	
LCSD 880-2430/3-A	Lab Control Sample Dup	111	106	
MB 880-2430/1-A	Method Blank	111	109	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: NT Global

Job ID: 880-1660-1

Prep Type: Total/NA

Client Sample ID: Method Blank

Analyzed

Prep Type: Total/NA

Prep Type: Total/NA

35

35

Prep Batch: 2417

SDG: Lea Co, NM

Dil Fac

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-2417/5-A

Project/Site: Dogwood 23 Fed CTB

**Matrix: Solid** 

Surrogate

Analysis Batch: 2445								Prep Bato	h: 2417
-	МВ	MB						-	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/28/21 09:00	04/28/21 14:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/28/21 09:00	04/28/21 14:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/28/21 09:00	04/28/21 14:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/28/21 09:00	04/28/21 14:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/28/21 09:00	04/28/21 14:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/28/21 09:00	04/28/21 14:28	1
Total BTEX	<0.00400	IJ	0.00400		ma/Ka		04/28/21 09:00	04/28/21 14:28	1

Limits

1,4-Difluorobenzene (Surr)

70 - 130 4-Bromofluorobenzene (Surr) 89 70 - 130 92

MB MB

Qualifier

%Recovery

04/28/21 09:00 04/28/21 14:28 04/28/21 09:00 04/28/21 14:28 **Client Sample ID: Lab Control Sample** 

Prepared

Lab Sample ID: LCS 880-2417/1-A **Matrix: Solid** 

**Analysis Batch: 2445** 

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07918		mg/Kg		79	70 - 130	
Toluene	0.100	0.08112		mg/Kg		81	70 - 130	
Ethylbenzene	0.100	0.08881		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1865		mg/Kg		93	70 - 130	
o-Xylene	0.100	0.09652		mg/Kg		97	70 - 130	

Spike

Added

0.100

0.100

0.100

0.200

0.100

LCSD LCSD

0.08004

0.08054

0.08712

0.1819

0.09399

Result Qualifier

mg/Kg

mg/Kg

LCS LCS %Recovery Qualifier Limits 106

Lab Sample ID: LCSD 880-2417/2-A

**Matrix: Solid Analysis Batch: 2445** 

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

70 - 130 4-Bromofluorobenzene (Surr) 70 - 130 1,4-Difluorobenzene (Surr) 99

			Pre	p Batch:	2417	
			%Rec.		RPD	
Unit	D	%Rec	Limits	RPD	Limit	
mg/Kg		80	70 - 130	1	35	
mg/Kg		81	70 - 130	1	35	
mg/Kg		87	70 - 130	2	35	

70 - 130

70 - 130

Client Sample ID: Lab Control Sample Dup

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Client: NT Global Job ID: 880-1660-1 Project/Site: Dogwood 23 Fed CTB

SDG: Lea Co, NM

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

Lab Sample ID: MB 880-2430/1-A

**Matrix: Solid** 

**Analysis Batch: 2466** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2430

Prep Batch: 2430

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/28/21 10:09	04/29/21 21:04	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/28/21 10:09	04/29/21 21:04	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/28/21 10:09	04/29/21 21:04	1
Total TPH	<50.0	U	50.0		mg/Kg		04/28/21 10:09	04/29/21 21:04	1

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Surrogate	%Recovery	Qualifier	Limits	Prepare	d	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	04/28/21 1	0:09 04	1/29/21 21:04	1
o-Terphenyl	109		70 - 130	04/28/21 1	0:09 04	1/29/21 21:04	1

Lab Sample ID: LCS 880-2430/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

**Analysis Batch: 2466** 

LCS LCS Spike %Rec. Added Analyte Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1076 108 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 991.3 mg/Kg 99 70 - 130

C10-C28)

Surrogate			
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	108		70 - 130

LCS LCS

....

Lab Sample ID: LCSD 880-2430/3-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

**Analysis Batch: 2466** 

Prep Type: Total/NA Prep Batch: 2430

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1053		mg/Kg		105	70 - 130	2	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	962.4		mg/Kg		96	70 - 130	3	20
C10-C28)									

C10-C28)

	LCSD LCSD	
Surrogate	%Recovery Qualifie	r Limits
1-Chlorooctane	111	70 - 130
o-Terphenyl	106	70 - 130

Lab Sample ID: 880-1660-1 MS Client Sample ID: H-1 (0-6")

**Matrix: Solid** 

**Analysis Batch: 2466** 

Prep Type: Total/NA

Prep Batch: 2430

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	998	1291		mg/Kg		129	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1142		mg/Kg		112	70 - 130	

Job ID: 880-1660-1

Client: NT Global Project/Site: Dogwood 23 Fed CTB SDG: Lea Co, NM

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

MS MS

Lab Sample ID: 880-1660-1 MS

**Matrix: Solid** 

**Analysis Batch: 2466** 

Client Sample ID: H-1 (0-6") Prep Type: Total/NA

Prep Batch: 2430

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 124 70 - 130 o-Terphenyl 111 70 - 130

Lab Sample ID: 880-1660-1 MSD Client Sample ID: H-1 (0-6")

**Matrix: Solid** 

**Analysis Batch: 2466** 

Prep Type: Total/NA

Prep Batch: 2430

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <49.9 U F1 998 1310 F1 131 70 - 13020 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 998 <49.9 U 1153 mg/Kg 113 70 - 13020 C10-C28)

MSD MSD

%Recovery Surrogate Qualifier Limits 70 - 130 1-Chlorooctane 122 111 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2488/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 2512** 

мв мв

Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed 5.00 Chloride <5.00 U mg/Kg 04/29/21 21:46

Lab Sample ID: LCS 880-2488/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 2512** 

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits

Chloride 250 244.8 mg/Kg 98 90 - 110

Lab Sample ID: LCSD 880-2488/3-A

**Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 2512** 

Spike LCSD LCSD %Rec. RPD Added Analyte Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 245.0 98 90 - 110 mg/Kg

Lab Sample ID: 880-1660-1 MS Client Sample ID: H-1 (0-6")

**Matrix: Solid** 

**Analysis Batch: 2512** 

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier %Rec Limits Unit Chloride 90 - 110

Eurofins Xenco, Midland

Client Sample ID: Lab Control Sample Dup

20

**Prep Type: Soluble** 

250 349 574.3 mg/Kg

## **QC Sample Results**

Client: NT Global Job ID: 880-1660-1 Project/Site: Dogwood 23 Fed CTB SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-1660-1 MSD Client Sample ID: H-1 (0-6") **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 2512

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	349		250	574.5		mg/Kg		90	90 - 110	0	20

# **QC Association Summary**

Client: NT Global Job ID: 880-1660-1
Project/Site: Dogwood 23 Fed CTB SDG: Lea Co, NM

**GC VOA** 

Prep Batch: 2417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1660-1	H-1 (0-6")	Total/NA	Solid	5035	
880-1660-2	H-2 (0-6")	Total/NA	Solid	5035	
880-1660-3	H-3 (0-6")	Total/NA	Solid	5035	
MB 880-2417/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2417/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2417/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 2445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1660-1	H-1 (0-6")	Total/NA	Solid	8021B	2417
880-1660-2	H-2 (0-6")	Total/NA	Solid	8021B	2417
880-1660-3	H-3 (0-6")	Total/NA	Solid	8021B	2417
MB 880-2417/5-A	Method Blank	Total/NA	Solid	8021B	2417
LCS 880-2417/1-A	Lab Control Sample	Total/NA	Solid	8021B	2417
LCSD 880-2417/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2417

GC Semi VOA

Prep Batch: 2430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1660-1	H-1 (0-6")	Total/NA	Solid	8015NM Prep	
880-1660-2	H-2 (0-6")	Total/NA	Solid	8015NM Prep	
880-1660-3	H-3 (0-6")	Total/NA	Solid	8015NM Prep	
MB 880-2430/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2430/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2430/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-1660-1 MS	H-1 (0-6")	Total/NA	Solid	8015NM Prep	
880-1660-1 MSD	H-1 (0-6")	Total/NA	Solid	8015NM Prep	

Analysis Batch: 2466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1660-1	H-1 (0-6")	Total/NA	Solid	8015B NM	2430
880-1660-2	H-2 (0-6")	Total/NA	Solid	8015B NM	2430
880-1660-3	H-3 (0-6")	Total/NA	Solid	8015B NM	2430
MB 880-2430/1-A	Method Blank	Total/NA	Solid	8015B NM	2430
LCS 880-2430/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2430
LCSD 880-2430/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2430
880-1660-1 MS	H-1 (0-6")	Total/NA	Solid	8015B NM	2430
880-1660-1 MSD	H-1 (0-6")	Total/NA	Solid	8015B NM	2430

**HPLC/IC** 

Leach Batch: 2488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1660-1	H-1 (0-6")	Soluble	Solid	DI Leach	
880-1660-2	H-2 (0-6")	Soluble	Solid	DI Leach	
880-1660-3	H-3 (0-6")	Soluble	Solid	DI Leach	
MB 880-2488/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2488/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2488/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-1660-1 MS	H-1 (0-6")	Soluble	Solid	DI Leach	
880-1660-1 MSD	H-1 (0-6")	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

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# **QC Association Summary**

Client: NT Global Job ID: 880-1660-1
Project/Site: Dogwood 23 Fed CTB SDG: Lea Co, NM

## HPLC/IC

## Analysis Batch: 2512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-1660-1	H-1 (0-6")	Soluble	Solid	300.0	2488
880-1660-2	H-2 (0-6")	Soluble	Solid	300.0	2488
880-1660-3	H-3 (0-6")	Soluble	Solid	300.0	2488
MB 880-2488/1-A	Method Blank	Soluble	Solid	300.0	2488
LCS 880-2488/2-A	Lab Control Sample	Soluble	Solid	300.0	2488
LCSD 880-2488/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2488
880-1660-1 MS	H-1 (0-6")	Soluble	Solid	300.0	2488
880-1660-1 MSD	H-1 (0-6")	Soluble	Solid	300.0	2488

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Client: NT Global Job ID: 880-1660-1 Project/Site: Dogwood 23 Fed CTB SDG: Lea Co, NM

Client Sample ID: H-1 (0-6")

Date Received: 04/27/21 16:06

Lab Sample ID: 880-1660-1 Date Collected: 04/26/21 00:00 Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2417	04/28/21 09:00	KL	XM
Total/NA	Analysis	8021B		1	2445	04/28/21 21:38	KL	XM
Total/NA	Prep	8015NM Prep			2430	04/28/21 10:09	DM	XM
Total/NA	Analysis	8015B NM		1	2466	04/29/21 22:08	AJ	XM
Soluble	Leach	DI Leach			2488	04/29/21 11:24	SC	XM
Soluble	Analysis	300.0		1	2512	04/29/21 22:02	SC	XM

Client Sample ID: H-2 (0-6") Lab Sample ID: 880-1660-2

**Matrix: Solid** 

Date Collected: 04/26/21 00:00 Date Received: 04/27/21 16:06

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2417	04/28/21 09:00	KL	XM
Total/NA	Analysis	8021B		1	2445	04/28/21 21:58	KL	XM
Total/NA	Prep	8015NM Prep			2430	04/28/21 10:09	DM	XM
Total/NA	Analysis	8015B NM		1	2466	04/29/21 23:12	AJ	XM
Soluble	Leach	DI Leach			2488	04/29/21 11:24	SC	XM
Soluble	Analysis	300.0		1	2512	04/29/21 22:17	SC	XM

Client Sample ID: H-3 (0-6") Lab Sample ID: 880-1660-3

**Matrix: Solid** 

Date Collected: 04/26/21 00:00 Date Received: 04/27/21 16:06

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2417	04/28/21 09:00	KL	XM
Total/NA	Analysis	8021B		1	2445	04/28/21 22:18	KL	XM
Total/NA	Prep	8015NM Prep			2430	04/28/21 10:09	DM	XM
Total/NA	Analysis	8015B NM		1	2466	04/29/21 23:33	AJ	XM
Soluble	Leach	DI Leach			2488	04/29/21 11:24	SC	XM
Soluble	Analysis	300.0		10	2512	04/30/21 12:40	SC	XM

Laboratory References:

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

# **Accreditation/Certification Summary**

Client: NT Global Job ID: 880-1660-1 Project/Site: Dogwood 23 Fed CTB SDG: Lea Co, NM

### Laboratory: Eurofins Xenco, Midland

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

Authority Texas		ogram	Identification Number	Expiration Date 06-30-21	
		ELAP	T104704400-20-21		
The following analytes	are included in this report by	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes for	
the agency does not of		it the laboratory to not corum	ed by the governing additionty. This list me	ay include arialytes for	
0 ,		Matrix	Analyte	ay include analytes for	
the agency does not of	fer certification.	•	, , ,		

## **Method Summary**

Client: NT Global Job ID: 880-1660-1 Project/Site: Dogwood 23 Fed CTB

SDG: Lea Co, 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
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

# **Sample Summary**

Matrix

Solid

Solid

Solid

Client: NT Global

Lab Sample ID

880-1660-1

880-1660-2

880-1660-3

Project/Site: Dogwood 23 Fed CTB

Client Sample ID

H-1 (0-6")

H-2 (0-6")

H-3 (0-6")

Job ID: 880-1660-1

Received

04/27/21 16:06

04/27/21 16:06

04/27/21 16:06

Asset

Collected

04/26/21 00:00

04/26/21 00:00

04/26/21 00:00

SDG: Lea Co, NM

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ID	

**Additoinal Comments:** 

Relinquished by: (Signature)

NEL

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 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.

ved by: (Signature)

Da**ţe/**Time

Relinquished by (Signature)

Received by, (Signature)

Date/Time

Revised Date 05012020 Rev 2020

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

Project Manager	
Mike Carmo	ENVIRONM
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Project Name   Main   Common   Main   Common   Main   Common   Main   Common   Main   Main																		>	Work Order No:	Orde	¥r Nc	
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Sample Identification   Lea Co, NM   Due Date   72 H/s   TAT starts the dynce/aved by 4 30pm   TAT starts	Project Number	2	14188		Routine	√ Rush	0.00	res. ode														
Total Name:   CRM	Project Location	Lea	Co, NM		Due Date	72 Hr	S)														$\dashv$	
PLE RECEIPT   Temp Blank:   Yes No.   Wet Ice   Yes No.   Yes No.   Wet Ice   Yes No.   Yes No.   Wet Ice   Yes No.   Yes No	Sampler's Name:		CRM		TAT starts the	day received l	by the			1RO)					······································							3
T   Temp Blank:   Yes   No   Wel Ice   Yes   No   Thermometer ID   Yes   No   Make   Correction Factor   Yes   No   Make   Corrected Temperature.   Soil   Water   Comp   Cont   Time   Soil   Water   Comp   Cont   Temperature   Temperature   Soil   Water   Comp   Cont   Temperature   Temperature   Soil   Water   Comp   Cont   Temperature   Temperature   Temperature   Temperature   Soil   Water   Comp   Cont   Temperature   Temperature   Soil   Water   Comp   Cont   Temperature   Temperature	F0#				lab if recei	ived by 4 30pr		rs		+ N												•
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Corrected Temperature   S.	Sample Custody Seals.	- 1		Temperatu	ire Reading																ł	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub>
Date   Time   Soil   Water   Grab/    # of   E	Total Containers.			Corrected	Temperature.	- Lange		turalismi		8015					***************************************							NaOH+Ascorbic Acid SAPC
4/26/2021       -       X       G       1       X       X         4/26/2021       -       X       G       1       X       X         4/26/2021       -       X       G       1       X       X	Sample Identif	ication	Date	Time	Soil			of of		TPH												Sample Comments
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## **Login Sample Receipt Checklist**

Client: NT Global Job Number: 880-1660-1 SDG Number: Lea Co, NM

Login Number: 1660 List Source: Eurofins Midland

List Number: 1 Creator: Teel, Brianna

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 sample times on COC
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



# **Environment Testing America**

# **ANALYTICAL REPORT**

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

Laboratory Job ID: 880-2137-1

Laboratory Sample Delivery Group: LEA CO, NM Client Project/Site: EOG-DOGWOOD 23 FED CTB

For:

NT Global 701 Tradewinds Blvd Midland, Texas 79706

Attn: Mike Carmona

MAMER

Authorized for release by: 5/14/2021 3:10:23 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

·····LINKS ·······

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www.eurofinsus.com/Env

Released to Imaging: 8/12/2021 9:02:18 AM

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.

Laboratory Job ID: 880-2137-1 Client: NT Global Project/Site: EOG-DOGWOOD 23 FED CTB

SDG: LEA CO, NM

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## **Definitions/Glossary**

Client: NT Global Job ID: 880-2137-1 Project/Site: EOG-DOGWOOD 23 FED CTB SDG: LEA CO, NM

#### **Qualifiers**

**GC VOA** Qualifier

**Qualifier Description** F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

**GC Semi VOA** 

Qualifier **Qualifier Description** 

S1-Surrogate recovery exceeds control limits, low biased. Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description** 

F1 MS and/or MSD recovery exceeds control limits. 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 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

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA

Minimum Detectable Concentration (Radiochemistry) MDC 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

Presumptive **PRES** QC **Quality Control** 

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TFO

**TNTC** Too Numerous To Count

#### **Case Narrative**

Client: NT Global

Project/Site: EOG-DOGWOOD 23 FED CTB

Job ID: 880-2137-1 SDG: LEA CO, NM

Job ID: 880-2137-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative 880-2137-1

#### Receipt

The samples were received on 5/13/2021 10:10 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 5.3°C

#### **GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-3053 and analytical batch 880-3051 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Internal standard responses were outside of acceptance limits for the following samples: CS-3 (880-2137-3), CS-4 (880-2137-4) and SW-3 (880-2137-8). The sample(s) shows evidence of matrix interference.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-3 (880-2137-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-3053 and analytical batch 880-3051 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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.

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Client: NT Global Job ID: 880-2137-1
Project/Site: EOG-DOGWOOD 23 FED CTB SDG: LEA CO, NM

**Client Sample ID: CS-1** 

Date Collected: 05/12/21 00:00 Date Received: 05/13/21 10:10 Lab Sample ID: 880-2137-1

Matrix: Solid

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/13/21 11:30	05/13/21 13:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/13/21 11:30	05/13/21 13:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/13/21 11:30	05/13/21 13:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/13/21 11:30	05/13/21 13:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/13/21 11:30	05/13/21 13:12	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/13/21 11:30	05/13/21 13:12	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		05/13/21 11:30	05/13/21 13:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				05/13/21 11:30	05/13/21 13:12	1
1,4-Difluorobenzene (Surr)	99		70 - 130				05/13/21 11:30	05/13/21 13:12	1

Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/13/21 11:18	05/13/21 12:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/13/21 11:18	05/13/21 12:49	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/13/21 11:18	05/13/21 12:49	1
Total TPH	<49.9	U	49.9		mg/Kg		05/13/21 11:18	05/13/21 12:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				05/13/21 11:18	05/13/21 12:49	1

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.5	F1	5.00		mg/Kg			05/14/21 10:08	1

70 - 130

101

Client Sample ID: CS-2

Date Collected: 05/12/21 00:00

Lab Sample ID: 880-2137-2

Matrix: Solid

Date Received: 05/13/21 10:10

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200		mg/Kg		05/13/21 11:30	05/13/21 13:15	1
Toluene	<0.00200	U F2 F1	0.00200		mg/Kg		05/13/21 11:30	05/13/21 13:15	1
Ethylbenzene	<0.00200	U F2 F1	0.00200		mg/Kg		05/13/21 11:30	05/13/21 13:15	1
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.00401		mg/Kg		05/13/21 11:30	05/13/21 13:15	1
o-Xylene	<0.00200	U F2 F1	0.00200		mg/Kg		05/13/21 11:30	05/13/21 13:15	1
Xylenes, Total	<0.00401	U F2 F1	0.00401		mg/Kg		05/13/21 11:30	05/13/21 13:15	1
Total BTEX	<0.00401	U F2 F1	0.00401		mg/Kg		05/13/21 11:30	05/13/21 13:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				05/13/21 11:30	05/13/21 13:15	1
1,4-Difluorobenzene (Surr)	93		70 - 130				05/13/21 11:30	05/13/21 13:15	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		05/13/21 11:18	05/13/21 13:51	1
(GRO)-C6-C10									

Client: NT Global Job ID: 880-2137-1
Project/Site: EOG-DOGWOOD 23 FED CTB SDG: LEA CO, NM

Client Sample ID: CS-2

Date Collected: 05/12/21 00:00 Date Received: 05/13/21 10:10

Date Collected: 05/12/21 00:00

Lab Sample ID: 880-2137-2

Matrix: Solid

Matrix: Solid

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		05/13/21 11:18	05/13/21 13:51	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/13/21 11:18	05/13/21 13:51	1
Total TPH	<49.8	U	49.8		mg/Kg		05/13/21 11:18	05/13/21 13:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				05/13/21 11:18	05/13/21 13:51	1
o-Terphenyl	103		70 - 130				05/13/21 11:18	05/13/21 13:51	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.7		5.04		mg/Kg		-	05/14/21 10:24	1

Date Received: 05/13/21 10:10 Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Benzene <0.00202 U 0.00202 05/13/21 14:00 05/13/21 16:19 mg/Kg Toluene <0.00202 U 0.00202 mg/Kg 05/13/21 14:00 05/13/21 16:19 Ethylbenzene <0.00202 U 0.00202 mg/Kg 05/13/21 14:00 05/13/21 16:19 m-Xylene & p-Xylene <0.00403 U 0.00403 mg/Kg 05/13/21 14:00 05/13/21 16:19 o-Xylene <0.00202 U 0.00202 mg/Kg 05/13/21 14:00 05/13/21 16:19 0.00403 Xylenes, Total <0.00403 U mg/Kg 05/13/21 14:00 05/13/21 16:19 Total BTEX <0.00403 U 0.00403 05/13/21 14:00 05/13/21 16:19 mg/Kg

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	05/13/21 14:00	05/13/21 16:19	1
l	1,4-Difluorobenzene (Surr)	100		70 - 130	05/13/21 14:00	05/13/21 16:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier Analyte RL MDL Unit Dil Fac Prepared Analyzed Gasoline Range Organics <49.8 U 49.8 05/13/21 11:18 05/13/21 14:12 mg/Kg (GRO)-C6-C10 <49.8 U 49.8 05/13/21 11:18 05/13/21 14:12 Diesel Range Organics (Over mg/Kg C10-C28) <49.8 U 49.8 05/13/21 11:18 05/13/21 14:12 OII Range Organics (Over C28-C36) mg/Kg Total TPH <49.8 U 49.8 05/13/21 11:18 05/13/21 14:12 mg/Kg

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	05/13/21 11:18	05/13/21 14:12	1
o-Terphenyl	96		70 - 130	05/13/21 11:18	05/13/21 14:12	1

Method: 300.0 - Anions, Ion Chrom	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.2	4.98	mg/Kg			05/14/21 10:29	1

Client: NT Global Job ID: 880-2137-1 Project/Site: EOG-DOGWOOD 23 FED CTB SDG: LEA CO, NM

**Client Sample ID: CS-4** 

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Lab Sample ID: 880-2137-4 Date Collected: 05/12/21 00:00 Matrix: Solid

Date Received: 05/13/21 10:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/13/21 14:00	05/13/21 16:39	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/13/21 14:00	05/13/21 16:39	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/13/21 14:00	05/13/21 16:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/13/21 14:00	05/13/21 16:39	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/13/21 14:00	05/13/21 16:39	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/13/21 14:00	05/13/21 16:39	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		05/13/21 14:00	05/13/21 16:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118	-	70 - 130				05/13/21 14:00	05/13/21 16:39	1
1,4-Difluorobenzene (Surr)	98		70 - 130				05/13/21 14:00	05/13/21 16:39	1

Method: 8015B NM - Diesel Rang	je 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		05/13/21 11:18	05/13/21 14:32	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		05/13/21 11:18	05/13/21 14:32	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/13/21 11:18	05/13/21 14:32	1
Total TPH	<49.9	U	49.9		mg/Kg		05/13/21 11:18	05/13/21 14:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				05/13/21 11:18	05/13/21 14:32	1

Method: 300.0 - Anions, Ion Chro	matography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33 3	4 99	ma/Ka			05/14/21 10:46	1

70 - 130

**Client Sample ID: CS-5** Lab Sample ID: 880-2137-5 Date Collected: 05/12/21 00:00 **Matrix: Solid** 

Date Received: 05/13/21 10:10

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/13/21 14:00	05/13/21 17:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/13/21 14:00	05/13/21 17:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/13/21 14:00	05/13/21 17:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/13/21 14:00	05/13/21 17:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/13/21 14:00	05/13/21 17:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/13/21 14:00	05/13/21 17:00	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/13/21 14:00	05/13/21 17:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				05/13/21 14:00	05/13/21 17:00	1
1,4-Difluorobenzene (Surr)	99		70 - 130				05/13/21 14:00	05/13/21 17:00	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	11	49.9		mg/Kg		05/13/21 11:18	05/13/21 14:53	

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Client: NT Global Job ID: 880-2137-1 Project/Site: EOG-DOGWOOD 23 FED CTB SDG: LEA CO, NM

Lab Sample ID: 880-2137-5

**Client Sample ID: CS-5** Date Collected: 05/12/21 00:00

Date Received: 05/13/21 10:10

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		Matı	rix:	Sol	id

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		05/13/21 11:18	05/13/21 14:53	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/13/21 11:18	05/13/21 14:53	1
Total TPH	<49.9	U	49.9		mg/Kg		05/13/21 11:18	05/13/21 14:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				05/13/21 11:18	05/13/21 14:53	1
o-Terphenyl	103		70 - 130				05/13/21 11:18	05/13/21 14:53	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.1		4.97	-	mg/Kg			05/14/21 10:51	

**Client Sample ID: SW-1** Lab Sample ID: 880-2137-6 Date Collected: 05/12/21 00:00

Date Received: 05/13/21 10:10

Matrix: Solid

Method: 8021B - Volatile Org	anic Compounds (	GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/13/21 14:00	05/13/21 17:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/13/21 14:00	05/13/21 17:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/13/21 14:00	05/13/21 17:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/13/21 14:00	05/13/21 17:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/13/21 14:00	05/13/21 17:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/13/21 14:00	05/13/21 17:20	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/13/21 14:00	05/13/21 17:20	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117	70 - 130	05/13/21 14:00	05/13/21 17:20	1
1,4-Difluorobenzene (Surr)	103	70 - 130	05/13/21 14:00	05/13/21 17:20	1

Method: 00 135 MM - Diesei Kang	ge 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		05/13/21 11:18	05/13/21 17:18	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		05/13/21 11:18	05/13/21 17:18	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/13/21 11:18	05/13/21 17:18	1
Total TPH	<49.9	U	49.9		mg/Kg		05/13/21 11:18	05/13/21 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				05/13/21 11:18	05/13/21 17:18	1
o-Terphenyl	101		70 - 130				05/13/21 11:18	05/13/21 17:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	57.5	4.97	mg/Kg			05/14/21 10:56	1

Client: NT Global Job ID: 880-2137-1 Project/Site: EOG-DOGWOOD 23 FED CTB SDG: LEA CO, NM

Lab Sample ID: 880-2137-7 Client Sample ID: SW-2 Matrix: Solid

Date Collected: 05/12/21 00:00 Date Received: 05/13/21 10:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/13/21 14:00	05/13/21 19:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/13/21 14:00	05/13/21 19:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/13/21 14:00	05/13/21 19:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/13/21 14:00	05/13/21 19:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/13/21 14:00	05/13/21 19:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/13/21 14:00	05/13/21 19:10	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/13/21 14:00	05/13/21 19:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				05/13/21 14:00	05/13/21 19:10	1
1,4-Difluorobenzene (Surr)	98		70 - 130				05/13/21 14:00	05/13/21 19:10	1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		05/13/21 11:18	05/13/21 17:38	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		05/13/21 11:18	05/13/21 17:38	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/13/21 11:18	05/13/21 17:38	1
Total TPH	<50.0	U	50.0		mg/Kg		05/13/21 11:18	05/13/21 17:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				05/13/21 11:18	05/13/21 17:38	1
o-Terphenvl	103		70 <sub>-</sub> 130				05/13/21 11:18	05/13/21 17:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	64.8		4.96		mg/Kg			05/14/21 11:02	1	

**Client Sample ID: SW-3** Lab Sample ID: 880-2137-8 Date Collected: 05/12/21 00:00 **Matrix: Solid** Date Received: 05/13/21 10:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/13/21 14:00	05/13/21 19:30	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/13/21 14:00	05/13/21 19:30	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/13/21 14:00	05/13/21 19:30	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/13/21 14:00	05/13/21 19:30	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/13/21 14:00	05/13/21 19:30	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/13/21 14:00	05/13/21 19:30	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		05/13/21 14:00	05/13/21 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				05/13/21 14:00	05/13/21 19:30	1
1,4-Difluorobenzene (Surr)	90		70 - 130				05/13/21 14:00	05/13/21 19:30	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/13/21 11:18	05/13/21 18:00	1

Project/Site: EOG-DOGWOOD 23 FED CTB

Client: NT Global

Job ID: 880-2137-1

05/13/21 11:18

05/13/21 14:00

05/13/21 11:18

SDG: LEA CO, NM

Client Sample ID: SW-3

Date Received: 05/13/21 10:10

Lab Sample ID: 880-2137-8 Date Collected: 05/12/21 00:00

**Matrix: Solid** 

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued) Result Qualifier MDL Unit D Prepared Analyzed Dil Fac **Diesel Range Organics (Over** 50.0 05/13/21 11:18 05/13/21 18:00 293 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 05/13/21 11:18 05/13/21 18:00 50.0 05/13/21 11:18 05/13/21 18:00 **Total TPH** mg/Kg 293 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac

o-Terphenyl 99 70 - 130 05/13/21 11:18 05/13/21 18:00 Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte MDL Unit RL D Prepared Analyzed Dil Fac

70 - 130

102

72.6

<0.00397 U

100

Client Sample ID: SW-4 Lab Sample ID: 880-2137-9 Date Collected: 05/12/21 00:00

5.03

mg/Kg

mg/Kg

Date Received: 05/13/21 10:10

1-Chlorooctane

Chloride

Total BTEX

o-Terphenyl

Matrix: Solid

05/13/21 19:51

05/14/21 11:07

05/13/21 18:00

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier MDL Unit Dil Fac RL Prepared Analyzed Benzene <0.00198 Ū 0.00198 05/13/21 14:00 05/13/21 19:51 mg/Kg Toluene <0.00198 U 0.00198 mg/Kg 05/13/21 14:00 05/13/21 19:51 Ethylbenzene <0.00198 U 0.00198 05/13/21 14:00 05/13/21 19:51 mg/Kg m-Xylene & p-Xylene <0.00397 U 0.00397 mg/Kg 05/13/21 14:00 05/13/21 19:51 o-Xylene <0.00198 U 0.00198 mg/Kg 05/13/21 14:00 05/13/21 19:51 Xylenes, Total <0.00397 U 0.00397 mg/Kg 05/13/21 14:00 05/13/21 19:51

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111	70 - 130	05/13/21 14:00	05/13/21 19:51	1
1,4-Difluorobenzene (Surr)	100	70 - 130	05/13/21 14:00	05/13/21 19:51	1

0.00397

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

miction. of fob him - bicaci itali	je Organies (D	110) (00)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		05/13/21 11:18	05/13/21 18:20	1
(GRO)-C6-C10									
Diesel Range Organics (Over	170		49.9		mg/Kg		05/13/21 11:18	05/13/21 18:20	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/13/21 11:18	05/13/21 18:20	1
Total TPH	170		49.9		mg/Kg		05/13/21 11:18	05/13/21 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				05/13/21 11:18	05/13/21 18:20	1

Method: 300.0 - Anions, Ion Chron	natography - So	oluble								
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	68.3		5.03		ma/Ka			05/14/21 11:12		

70 - 130

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05/13/21 18:20

Client: NT Global Job ID: 880-2137-1
Project/Site: EOG-DOGWOOD 23 FED CTB SDG: LEA CO, NM

Client Sample ID: SW-5 Lab Sample ID: 880-2137-10

Date Collected: 05/12/21 00:00 Matrix: Solid

Date Received: 05/13/21 10:10

Method: 8021B - Volatile Organic Compounds (G

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/13/21 14:00	05/13/21 20:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/13/21 14:00	05/13/21 20:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/13/21 14:00	05/13/21 20:11	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/13/21 14:00	05/13/21 20:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/13/21 14:00	05/13/21 20:11	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/13/21 14:00	05/13/21 20:11	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/13/21 14:00	05/13/21 20:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				05/13/21 14:00	05/13/21 20:11	1
1,4-Difluorobenzene (Surr)	98		70 - 130				05/13/21 14:00	05/13/21 20:11	1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		05/13/21 11:18	05/13/21 18:41	1
(GRO)-C6-C10									
Diesel Range Organics (Over	116		50.0		mg/Kg		05/13/21 11:18	05/13/21 18:41	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/13/21 11:18	05/13/21 18:41	1
Total TPH	116		50.0		mg/Kg		05/13/21 11:18	05/13/21 18:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				05/13/21 11:18	05/13/21 18:41	1
o-Terphenyl	99		70 - 130				05/13/21 11:18	05/13/21 18:41	1

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.1		5.01		mg/Kg			05/14/21 11:18	1

Client Sample ID: SW-6

Lab Sample ID: 880-2137-11

Date Collected: 05/12/21 00:00

Matrix: Solid

Date Received: 05/13/21 10:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/13/21 14:00	05/13/21 20:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/13/21 14:00	05/13/21 20:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/13/21 14:00	05/13/21 20:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/13/21 14:00	05/13/21 20:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/13/21 14:00	05/13/21 20:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/13/21 14:00	05/13/21 20:32	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/13/21 14:00	05/13/21 20:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				05/13/21 14:00	05/13/21 20:32	1
1,4-Difluorobenzene (Surr)	97		70 - 130				05/13/21 14:00	05/13/21 20:32	1
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/13/21 11:18	05/13/21 19:01	1

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Client: NT Global Job ID: 880-2137-1 Project/Site: EOG-DOGWOOD 23 FED CTB SDG: LEA CO, NM

**Client Sample ID: SW-6** 

Lab Sample ID: 880-2137-11 Date Collected: 05/12/21 00:00 Matrix: Solid

Date Received: 05/13/21 10:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	67.6		49.8		mg/Kg		05/13/21 11:18	05/13/21 19:01	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/13/21 11:18	05/13/21 19:01	1
Total TPH	67.6		49.8		mg/Kg		05/13/21 11:18	05/13/21 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	52	S1-	70 - 130				05/13/21 11:18	05/13/21 19:01	1
o-Terphenyl	51	S1-	70 - 130				05/13/21 11:18	05/13/21 19:01	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	0.,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

5.05 Client Sample ID: SW-7 Lab Sample ID: 880-2137-12

mg/Kg

Date Collected: 05/12/21 00:00

Chloride

Date Received: 05/13/21 10:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/13/21 14:00	05/13/21 20:52	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/13/21 14:00	05/13/21 20:52	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/13/21 14:00	05/13/21 20:52	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/13/21 14:00	05/13/21 20:52	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/13/21 14:00	05/13/21 20:52	1
Xylenes, Total	< 0.00397	U	0.00397		mg/Kg		05/13/21 14:00	05/13/21 20:52	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		05/13/21 14:00	05/13/21 20:52	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117	70 - 130	05/13/21 14:00	05/13/21 20:52	1
1,4-Difluorobenzene (Surr)	100	70 - 130	05/13/21 14:00	05/13/21 20:52	1

	Method: 8015B NM - Die	esel Range Organics	(DRO) (GC)
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	, 3 (	, (,							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		05/13/21 11:18	05/13/21 19:22	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		05/13/21 11:18	05/13/21 19:22	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/13/21 11:18	05/13/21 19:22	1
Total TPH	<49.9	U	49.9		mg/Kg		05/13/21 11:18	05/13/21 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				05/13/21 11:18	05/13/21 19:22	1
o-Terphenyl	99		70 - 130				05/13/21 11:18	05/13/21 19:22	1

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.2	5.02	mg/Kg			05/13/21 16:42	1

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05/13/21 16:26

**Matrix: Solid** 

## **Surrogate Summary**

Client: NT Global Job ID: 880-2137-1
Project/Site: EOG-DOGWOOD 23 FED CTB SDG: LEA CO, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-2137-1	CS-1	104	99	
880-2137-1 MS	CS-1	105	97	
880-2137-1 MSD	CS-1	106	96	
880-2137-2	CS-2	116	93	
880-2137-2 MS	CS-2	456 S1+	519 S1+	
880-2137-2 MSD	CS-2	98	111	
880-2137-3	CS-3	131 S1+	100	
880-2137-4	CS-4	118	98	
880-2137-5	CS-5	117	99	
880-2137-6	SW-1	117	103	
880-2137-7	SW-2	106	98	
880-2137-8	SW-3	137 S1+	90	
880-2137-9	SW-4	111	100	
880-2137-10	SW-5	110	98	
880-2137-11	SW-6	110	97	
880-2137-12	SW-7	117	100	
LCS 880-3052/1-A	Lab Control Sample	101	96	
LCS 880-3053/1-A	Lab Control Sample	98	105	
LCSD 880-3052/2-A	Lab Control Sample Dup	102	97	
LCSD 880-3053/2-A	Lab Control Sample Dup	80	116	
MB 880-3052/5-A	Method Blank	109	92	
MB 880-3053/5-A	Method Blank	70	83	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (A
		1CO1	OTPH1	
Lab Sample ID Clic	ent Sample ID	(70-130)	(70-130)	
880-2137-1 CS	-1	102	101	
880-2137-1 MS CS	-1	96	83	
880-2137-1 MSD CS	-1	94	81	
880-2137-2 CS	-2	102	103	
880-2137-3 CS	-3	98	96	
880-2137-4 CS	-4	106	102	
880-2137-5 CS	-5	105	103	
880-2137-6 SW	<b>'-1</b>	105	101	
880-2137-7 SW	<b>'-2</b>	103	103	
880-2137-8 SW	/-3	102	99	
880-2137-9 SW	'-4	105	100	
880-2137-10 SW	<b>'-5</b>	102	99	
880-2137-11 SW	/-6	52 S1-	51 S1-	
880-2137-12 SW	'-7	102	99	
LCS 880-3064/2-A Lat	Control Sample	105	96	
LCSD 880-3064/3-A Lat	Control Sample Dup	106	98	
MB 880-3064/1-A Me	thod Blank	55 S1-	55 S1-	

## **Surrogate Summary**

Client: NT Global

Project/Site: EOG-DOGWOOD 23 FED CTB

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Job ID: 880-2137-1 SDG: LEA CO, NM

Client: NT Global Job ID: 880-2137-1 Project/Site: EOG-DOGWOOD 23 FED CTB SDG: LEA CO, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3052/5-A

**Matrix: Solid** 

**Analysis Batch: 3049** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3052

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/13/21 11:30	05/13/21 12:43	
Toluene	<0.00200	U	0.00200		mg/Kg		05/13/21 11:30	05/13/21 12:43	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/13/21 11:30	05/13/21 12:43	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/13/21 11:30	05/13/21 12:43	
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/13/21 11:30	05/13/21 12:43	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/13/21 11:30	05/13/21 12:43	
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/13/21 11:30	05/13/21 12:43	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	 05/13/21 11:30	05/13/21 12:43	1
1,4-Difluorobenzene (Surr)	92		70 - 130	05/13/21 11:30	05/13/21 12:43	1

Lab Sample ID: LCS 880-3052/1-A **Client Sample ID: Lab Control Sample** 

**Matrix: Solid** 

**Analysis Batch: 3049** 

Prep Type: Total/NA

Prep Batch: 3052

	<b>Spike</b>	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D %	Rec	Limits	
Benzene	0.100	0.07855		mg/Kg		79	70 - 130	
Toluene	0.100	0.09284		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.09690		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.1979		mg/Kg		99	70 - 130	
o-Xylene	0.100	0.09965		mg/Kg		100	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits		
4-Bromofluorobenzene (Surr)	101	70 - 130		
1.4-Difluorobenzene (Surr)	96	70 - 130		

Lab Sample ID: LCSD 880-3052/2-A

**Matrix: Solid** 

**Analysis Batch: 3049** 

Client	Samp	ole ID:	Lab	Contr	ol Sai	mple	Dup

Prep Type: Total/NA

Prep Batch: 3052

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08049		mg/Kg		80	70 - 130	2	35
Toluene	0.100	0.09287		mg/Kg		93	70 - 130	0	35
Ethylbenzene	0.100	0.09778		mg/Kg		98	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1986		mg/Kg		99	70 - 130	0	35
o-Xylene	0.100	0.1008		mg/Kg		101	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery Qualifier	· Limits
4-Bromofluorobenzene (Surr)	102	70 - 130
1.4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: 880-2137-1 MS

Matrix: Solid

**Analysis Batch: 3049** 

Client Sample ID: CS-1 Prep Type: Total/NA

Prep Batch: 3052

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0998	0.08081		mg/Kg		81	70 - 130	

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Client: NT Global Job ID: 880-2137-1 Project/Site: EOG-DOGWOOD 23 FED CTB SDG: LEA CO, NM

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

Lab Sample ID: 880-2137-1 MS

**Analysis Batch: 3049** 

**Matrix: Solid** 

Lab Sample ID: 880-2137-1 MSD

CI	ent Sample ID: CS-1
	Prep Type: Total/NA
	Pron Batch: 3052

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Toluene	<0.00200	U	0.0998	0.09456		mg/Kg		95	70 - 130	
Ethylbenzene	<0.00200	U	0.0998	0.09909		mg/Kg		99	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.200	0.2012		mg/Kg		101	70 - 130	
o-Xylene	<0.00200	U	0.0998	0.1010		mg/Kg		101	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Client Sample ID: CS-1

mg/Kg

**Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 3049** Prep Batch: 3052

MSD MSD %Rec. RPD Sample Sample Spike Result Qualifier Limit Analyte Added Result Qualifier Unit %Rec Limits **RPD** Benzene <0.00200 0.101 0.07200 71 70 - 130 12 35 mg/Kg Toluene <0.00200 U 0.101 0.08492 84 70 - 130 11 35 mg/Kg Ethylbenzene <0.00200 U 0.101 0.08951 mg/Kg 89 70 - 130 10 35 m-Xylene & p-Xylene <0.00401 U 0.202 0.1842 91 70 - 130 9 35 mg/Kg

0.09279

0.101

MSD MSD Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 106 1,4-Difluorobenzene (Surr) 96 70 - 130

<0.00200 U

Lab Sample ID: MB 880-3053/5-A

**Matrix: Solid** 

o-Xylene

**Analysis Batch: 3051** 

Client Sample ID: Method Blank

70 - 130

92

Prep Type: Total/NA

Prep Batch: 3053

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/13/21 11:30	05/13/21 12:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/13/21 11:30	05/13/21 12:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/13/21 11:30	05/13/21 12:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/13/21 11:30	05/13/21 12:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/13/21 11:30	05/13/21 12:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/13/21 11:30	05/13/21 12:51	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/13/21 11:30	05/13/21 12:51	1

MB MB

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	05/13/21 11:30	05/13/21 12:51	1
1,4-Difluorobenzene (Surr)	83		70 - 130	05/13/21 11:30	05/13/21 12:51	1

Lab Sample ID: LCS 880-3053/1-A

**Matrix: Solid** 

**Analysis Batch: 3051** 

<b>Client Sample ID:</b>	Lab Control Sample
	Prep Type: Total/NA

Prep Batch: 3053

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1044		mg/Kg		104	70 - 130	 
Toluene	0.100	0.1029		mg/Kg		103	70 - 130	

Client: NT Global Job ID: 880-2137-1 Project/Site: EOG-DOGWOOD 23 FED CTB SDG: LEA CO, NM

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

Lab Sample ID: LCS 880-3053/1-A

**Matrix: Solid** 

**Analysis Batch: 3051** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA Prep Batch: 3053

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	0.100	0.1052		mg/Kg		105	70 - 130	
m-Xylene & p-Xylene	0.200	0.2037		mg/Kg		102	70 - 130	
o-Xylene	0.100	0.09613		mg/Kg		96	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3053

RPD

Lab Sample ID: LCSD 880-3053/2-A **Matrix: Solid** 

**Analysis Batch: 3051** 

Spike LCSD LCSD %Rec. Added Result Qualifier RPD Analyte Unit %Rec Limits 0.100 Benzene 0.09971 mg/Kg 100 70 - 130 5 Toluene 0.100 0.1002 mg/Kg 100 70 - 130 3 35 Ethylbenzene 0.100 0.1066 mg/Kg 107 70 - 130 35 0.200 0.2085 35 m-Xylene & p-Xylene mg/Kg 104 70 - 130 0.100 0.1004 70 - 130 35 o-Xylene mg/Kg 100

Limit 35

LCSD LCSD

MS MS

Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 80 1,4-Difluorobenzene (Surr) 70 - 130 116

Lab Sample ID: 880-2137-2 MS

**Matrix: Solid** 

**Analysis Batch: 3051** 

Client Sample ID: CS-2 Prep Type: Total/NA

Prep Batch: 3053

Surrogate %Recovery Qualifier

Limits 4-Bromofluorobenzene (Surr) 456 S1+ 70 - 130 1,4-Difluorobenzene (Surr) 519 S1+ 70 - 130

Lab Sample ID: 880-2137-2 MSD

**Matrix: Solid** 

**Analysis Batch: 3051** 

Client Sample ID: CS-2 Prep Type: Total/NA

Prep Batch: 3053

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Limit Analyte Result Qualifier Unit %Rec RPD Limits Benzene <0.00200 U F2 F1 0.101 0.1003 F2 mg/Kg 99 70 - 130 126 35 Toluene <0.00200 U F2 F1 0.101 0.09864 F2 mg/Kg 98 70 - 130 128 35 Ethylbenzene 70 - 130 <0.00200 U F2 F1 0.101 0.1035 F2 mg/Kg 103 128 35 m-Xylene & p-Xylene <0.00401 U F2 F1 0.202 0.1995 F2 mg/Kg 99 70 - 130 128 35 o-Xylene <0.00200 U F2 F1 0.101 0.09448 F2 mg/Kg 93 70 - 130 127 35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1.4-Difluorobenzene (Surr)	111		70 - 130

Client: NT Global Job ID: 880-2137-1 Project/Site: EOG-DOGWOOD 23 FED CTB SDG: LEA CO, NM

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

Lab Sample ID: MB 880-3064/1-A

**Matrix: Solid** 

Analysis Batch: 3057

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3064

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		05/13/21 11:18	05/13/21 11:47	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		05/13/21 11:18	05/13/21 11:47	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/13/21 11:18	05/13/21 11:47	1
Total TPH	<50.0	U	50.0		mg/Kg		05/13/21 11:18	05/13/21 11:47	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	55	S1-	70 - 130	05/13/21 11:18	05/13/21 11:47	1
o-Terphenyl	55	S1-	70 - 130	05/13/21 11:18	05/13/21 11:47	1

Lab Sample ID: LCS 880-3064/2-A

Matrix: Solid

**Analysis Batch: 3057** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 3064

LCS LCS Spike %Rec. Added Analyte Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 877.8 88 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 952.0 mg/Kg 95 70 - 130

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: LCSD 880-3064/3-A

**Matrix: Solid** 

**Analysis Batch: 3057** 

<b>Client Sam</b>	nla ID: I a	h Contro	Sample	Dun
Chent Sam	pie iD. La		Janipie	Dup

Prep Type: Total/NA

Prep Batch: 3064

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	864.6		mg/Kg		86	70 - 130	2	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	973.3		mg/Kg		97	70 - 130	2	20

Limits

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier

106 70 - 130 1-Chlorooctane 70 - 130 o-Terphenyl 98

Lab Sample ID: 880-2137-1 MS

**Matrix: Solid** 

**Analysis Batch: 3057** 

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 3064

•	Sample	Sample	Spike	MS	MS				%Rec.	•
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	864.9		mg/Kg		84	70 - 130	
Diesel Range Organics (Over	<49.9	U	996	1060		mg/Kg		106	70 - 130	

Project/Site: EOG-DOGWOOD 23 FED CTB

Client: NT Global

Job ID: 880-2137-1

SDG: LEA CO, NM

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

Lab Sample ID: 880-2137-1 MS **Matrix: Solid** 

Prep Type: Total/NA Prep Batch: 3064

Client Sample ID: CS-1

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 96 70 - 130 o-Terphenyl 83 70 - 130

Lab Sample ID: 880-2137-1 MSD Client Sample ID: CS-1

**Matrix: Solid** 

**Analysis Batch: 3057** 

Prep Type: Total/NA **Analysis Batch: 3057** Prep Batch: 3064 MSD MSD RPD

Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit <49.9 U 996 846.6 83 70 - 1302 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 996 104 <49.9 U 1040 mg/Kg 70 - 1302 20 C10-C28)

MSD MSD %Recovery Surrogate Qualifier Limits 70 - 130 1-Chlorooctane 94 81 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3070/1-A Client Sample ID: Method Blank

**Matrix: Solid** 

Analyte

Chloride

**Analysis Batch: 3078** 

**Prep Type: Soluble** 

мв мв Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed 5.00 <5.00 U 05/13/21 16:11

mg/Kg

Lab Sample ID: LCS 880-3070/2-A Client Sample ID: Lab Control Sample Matrix: Solid

**Analysis Batch: 3078** 

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 244.7 mg/Kg 98 90 - 110

Lab Sample ID: LCSD 880-3070/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** 

**Analysis Batch: 3078** 

Spike LCSD LCSD %Rec. RPD Added Analyte Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 243.9 98 90 - 110 20 mg/Kg

Lab Sample ID: 880-2137-11 MS Client Sample ID: SW-6 **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 3078** 

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier %Rec Limits Unit 253 Chloride 95.6 341.7 mg/Kg 90 - 110

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**Prep Type: Soluble** 

**Prep Type: Soluble** 

Client: NT Global

Job ID: 880-2137-1 Project/Site: EOG-DOGWOOD 23 FED CTB

SDG: LEA CO, NM

Client Sample ID: SW-6

Client Sample ID: Method Blank

**Client Sample ID: Lab Control Sample** 

Client Sample ID: Lab Control Sample Dup

**Prep Type: Soluble** 

**Prep Type: Soluble** 

**Prep Type: Soluble** 

**Prep Type: Soluble** 

Client Sample ID: CS-1

Client Sample ID: CS-1

**Prep Type: Soluble** 

**Prep Type: Soluble** 

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-2137-11 MSD **Matrix: Solid** 

**Analysis Batch: 3078** 

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	95.6		253	340.1		mg/Kg		97	90 - 110		20

Lab Sample ID: MB 880-3071/1-A

**Matrix: Solid** 

**Analysis Batch: 3092** 

мв мв

Result Qualifier MDL Unit Analyte RL Prepared Analyzed Dil Fac 05/14/21 08:37 Chloride <5.00 U 5.00 mg/Kg

Lab Sample ID: LCS 880-3071/2-A

**Matrix: Solid** 

**Analysis Batch: 3092** 

-		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride		250	233.0		mg/Kg		93	90 - 110	

Lab Sample ID: LCSD 880-3071/3-A

**Matrix: Solid** 

**Analysis Batch: 3092** 

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	232.9		mg/Kg		93	90 - 110	0	20

Lab Sample ID: 880-2137-1 MS

**Matrix: Solid** 

Analysis Batch: 3092

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	39.5	F1	250	266.5		mg/Kg		91	90 - 110	

Lab Sample ID: 880-2137-1 MSD

**Matrix: Solid** 

Analysis Batch: 3092

7												
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	39.5	F1	250	262.9	F1	ma/Ka		89	90 - 110	1	20	

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5/14/2021

## **QC Association Summary**

Client: NT Global Job ID: 880-2137-1
Project/Site: EOG-DOGWOOD 23 FED CTB SDG: LEA CO, NM

## **GC VOA**

#### Analysis Batch: 3049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2137-1	CS-1	Total/NA	Solid	8021B	3052
880-2137-3	CS-3	Total/NA	Solid	8021B	3052
880-2137-4	CS-4	Total/NA	Solid	8021B	3052
880-2137-5	CS-5	Total/NA	Solid	8021B	3052
880-2137-6	SW-1	Total/NA	Solid	8021B	3052
880-2137-7	SW-2	Total/NA	Solid	8021B	3052
880-2137-8	SW-3	Total/NA	Solid	8021B	3052
880-2137-9	SW-4	Total/NA	Solid	8021B	3052
880-2137-10	SW-5	Total/NA	Solid	8021B	3052
880-2137-11	SW-6	Total/NA	Solid	8021B	3052
880-2137-12	SW-7	Total/NA	Solid	8021B	3052
MB 880-3052/5-A	Method Blank	Total/NA	Solid	8021B	3052
LCS 880-3052/1-A	Lab Control Sample	Total/NA	Solid	8021B	3052
LCSD 880-3052/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3052
880-2137-1 MS	CS-1	Total/NA	Solid	8021B	3052
880-2137-1 MSD	CS-1	Total/NA	Solid	8021B	3052

## **Analysis Batch: 3051**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2137-2	CS-2	Total/NA	Solid	8021B	3053
MB 880-3053/5-A	Method Blank	Total/NA	Solid	8021B	3053
LCS 880-3053/1-A	Lab Control Sample	Total/NA	Solid	8021B	3053
LCSD 880-3053/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3053
880-2137-2 MS	CS-2	Total/NA	Solid	8021B	3053
880-2137-2 MSD	CS-2	Total/NA	Solid	8021B	3053

## Prep Batch: 3052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-2137-1	CS-1	Total/NA	Solid	5035	
880-2137-3	CS-3	Total/NA	Solid	5035	
880-2137-4	CS-4	Total/NA	Solid	5035	
880-2137-5	CS-5	Total/NA	Solid	5035	
880-2137-6	SW-1	Total/NA	Solid	5035	
880-2137-7	SW-2	Total/NA	Solid	5035	
880-2137-8	SW-3	Total/NA	Solid	5035	
880-2137-9	SW-4	Total/NA	Solid	5035	
880-2137-10	SW-5	Total/NA	Solid	5035	
880-2137-11	SW-6	Total/NA	Solid	5035	
880-2137-12	SW-7	Total/NA	Solid	5035	
MB 880-3052/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3052/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3052/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-2137-1 MS	CS-1	Total/NA	Solid	5035	
880-2137-1 MSD	CS-1	Total/NA	Solid	5035	

#### Prep Batch: 3053

Lab Sample ID 880-2137-2	Client Sample ID CS-2	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
MB 880-3053/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3053/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3053/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

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## **QC Association Summary**

Client: NT Global

Project/Site: EOG-DOGWOOD 23 FED CTB

Job ID: 880-2137-1 SDG: LEA CO, NM

## **GC VOA (Continued)**

## Prep Batch: 3053 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2137-2 MS	CS-2	Total/NA	Solid	5035	
880-2137-2 MSD	CS-2	Total/NA	Solid	5035	

## GC Semi VOA

## **Analysis Batch: 3057**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2137-1	CS-1	Total/NA	Solid	8015B NM	3064
880-2137-2	CS-2	Total/NA	Solid	8015B NM	3064
880-2137-3	CS-3	Total/NA	Solid	8015B NM	3064
880-2137-4	CS-4	Total/NA	Solid	8015B NM	3064
880-2137-5	CS-5	Total/NA	Solid	8015B NM	3064
880-2137-6	SW-1	Total/NA	Solid	8015B NM	3064
880-2137-7	SW-2	Total/NA	Solid	8015B NM	3064
880-2137-8	SW-3	Total/NA	Solid	8015B NM	3064
880-2137-9	SW-4	Total/NA	Solid	8015B NM	3064
880-2137-10	SW-5	Total/NA	Solid	8015B NM	3064
880-2137-11	SW-6	Total/NA	Solid	8015B NM	3064
880-2137-12	SW-7	Total/NA	Solid	8015B NM	3064
MB 880-3064/1-A	Method Blank	Total/NA	Solid	8015B NM	3064
LCS 880-3064/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3064
LCSD 880-3064/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3064
880-2137-1 MS	CS-1	Total/NA	Solid	8015B NM	3064
880-2137-1 MSD	CS-1	Total/NA	Solid	8015B NM	3064

#### Prep Batch: 3064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-2137-1	CS-1	Total/NA	Solid	8015NM Prep	
880-2137-2	CS-2	Total/NA	Solid	8015NM Prep	
880-2137-3	CS-3	Total/NA	Solid	8015NM Prep	
880-2137-4	CS-4	Total/NA	Solid	8015NM Prep	
880-2137-5	CS-5	Total/NA	Solid	8015NM Prep	
880-2137-6	SW-1	Total/NA	Solid	8015NM Prep	
880-2137-7	SW-2	Total/NA	Solid	8015NM Prep	
880-2137-8	SW-3	Total/NA	Solid	8015NM Prep	
880-2137-9	SW-4	Total/NA	Solid	8015NM Prep	
880-2137-10	SW-5	Total/NA	Solid	8015NM Prep	
880-2137-11	SW-6	Total/NA	Solid	8015NM Prep	
880-2137-12	SW-7	Total/NA	Solid	8015NM Prep	
MB 880-3064/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3064/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3064/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-2137-1 MS	CS-1	Total/NA	Solid	8015NM Prep	
880-2137-1 MSD	CS-1	Total/NA	Solid	8015NM Prep	

#### **HPLC/IC**

#### Leach Batch: 3070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2137-11	SW-6	Soluble	Solid	DI Leach	
880-2137-12	SW-7	Soluble	Solid	DI Leach	
MB 880-3070/1-A	Method Blank	Soluble	Solid	DI Leach	

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## **QC Association Summary**

Client: NT Global

Job ID: 880-2137-1 Project/Site: EOG-DOGWOOD 23 FED CTB SDG: LEA CO, NM

## HPLC/IC (Continued)

## Leach Batch: 3070 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
LCS 880-3070/2-A	Lab Control Sample	Soluble	Solid	DI Leach
LCSD 880-3070/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach
880-2137-11 MS	SW-6	Soluble	Solid	DI Leach
880-2137-11 MSD	SW-6	Soluble	Solid	DI Leach

#### Leach Batch: 3071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
880-2137-1	CS-1	Soluble	Solid	DI Leach	
880-2137-2	CS-2	Soluble	Solid	DI Leach	
880-2137-3	CS-3	Soluble	Solid	DI Leach	
880-2137-4	CS-4	Soluble	Solid	DI Leach	
880-2137-5	CS-5	Soluble	Solid	DI Leach	
880-2137-6	SW-1	Soluble	Solid	DI Leach	
880-2137-7	SW-2	Soluble	Solid	DI Leach	
880-2137-8	SW-3	Soluble	Solid	DI Leach	
880-2137-9	SW-4	Soluble	Solid	DI Leach	
880-2137-10	SW-5	Soluble	Solid	DI Leach	
MB 880-3071/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3071/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3071/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-2137-1 MS	CS-1	Soluble	Solid	DI Leach	
880-2137-1 MSD	CS-1	Soluble	Solid	DI Leach	

#### **Analysis Batch: 3078**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2137-11	SW-6	Soluble	Solid	300.0	3070
880-2137-12	SW-7	Soluble	Solid	300.0	3070
MB 880-3070/1-A	Method Blank	Soluble	Solid	300.0	3070
LCS 880-3070/2-A	Lab Control Sample	Soluble	Solid	300.0	3070
LCSD 880-3070/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3070
880-2137-11 MS	SW-6	Soluble	Solid	300.0	3070
880-2137-11 MSD	SW-6	Soluble	Solid	300.0	3070

## Analysis Batch: 3092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2137-1	CS-1	Soluble	Solid	300.0	3071
880-2137-2	CS-2	Soluble	Solid	300.0	3071
880-2137-3	CS-3	Soluble	Solid	300.0	3071
880-2137-4	CS-4	Soluble	Solid	300.0	3071
880-2137-5	CS-5	Soluble	Solid	300.0	3071
880-2137-6	SW-1	Soluble	Solid	300.0	3071
880-2137-7	SW-2	Soluble	Solid	300.0	3071
880-2137-8	SW-3	Soluble	Solid	300.0	3071
880-2137-9	SW-4	Soluble	Solid	300.0	3071
880-2137-10	SW-5	Soluble	Solid	300.0	3071
MB 880-3071/1-A	Method Blank	Soluble	Solid	300.0	3071
LCS 880-3071/2-A	Lab Control Sample	Soluble	Solid	300.0	3071
LCSD 880-3071/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3071
880-2137-1 MS	CS-1	Soluble	Solid	300.0	3071
880-2137-1 MSD	CS-1	Soluble	Solid	300.0	3071

Client: NT Global

Project/Site: EOG-DOGWOOD 23 FED CTB

Job ID: 880-2137-1 SDG: LEA CO, NM

**Client Sample ID: CS-1** Date Collected: 05/12/21 00:00 Lab Sample ID: 880-2137-1

Matrix: Solid

Date Received: 05/13/21 10:10

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3052	05/13/21 11:30	MR	XM
Total/NA	Analysis	8021B		1	3049	05/13/21 13:12	MR	XM
Total/NA	Prep	8015NM Prep			3064	05/13/21 11:18	AM	XM
Total/NA	Analysis	8015B NM		1	3057	05/13/21 12:49	AJ	XM
Soluble	Leach	DI Leach			3071	05/13/21 12:13	SC	XM
Soluble	Analysis	300.0		1	3092	05/14/21 10:08	CH	XM

Client Sample ID: CS-2 Lab Sample ID: 880-2137-2 Date Collected: 05/12/21 00:00 **Matrix: Solid** 

Date Received: 05/13/21 10:10

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 3053 05/13/21 11:30 MR XM Total/NA 8021B MR Analysis 3051 05/13/21 13:15 XM1 Total/NA Prep 8015NM Prep 05/13/21 11:18 ΧM 3064 AM Total/NA 8015B NM ΧM Analysis 3057 05/13/21 13:51 ΑJ Soluble ΧM Leach DI Leach 3071 05/13/21 12:13 SC ΧM Soluble Analysis 300.0 1 3092 05/14/21 10:24 CH

**Client Sample ID: CS-3** Lab Sample ID: 880-2137-3

Date Collected: 05/12/21 00:00 Date Received: 05/13/21 10:10

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3052	05/13/21 14:00	MR	XM
Total/NA	Analysis	8021B		1	3049	05/13/21 16:19	MR	XM
Total/NA	Prep	8015NM Prep			3064	05/13/21 11:18	AM	XM
Total/NA	Analysis	8015B NM		1	3057	05/13/21 14:12	AJ	XM
Soluble	Leach	DI Leach			3071	05/13/21 12:13	SC	XM
Soluble	Analysis	300.0		1	3092	05/14/21 10:29	CH	XM

**Client Sample ID: CS-4** Lab Sample ID: 880-2137-4 Date Collected: 05/12/21 00:00

Date Received: 05/13/21 10:10

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3052	05/13/21 14:00	MR	XM
Total/NA	Analysis	8021B		1	3049	05/13/21 16:39	MR	XM
Total/NA	Prep	8015NM Prep			3064	05/13/21 11:18	AM	XM
Total/NA	Analysis	8015B NM		1	3057	05/13/21 14:32	AJ	XM
Soluble	Leach	DI Leach			3071	05/13/21 12:13	SC	XM
Soluble	Analysis	300.0		1	3092	05/14/21 10:46	CH	XM

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Matrix: Solid

Matrix: Solid

Client: NT Global

Project/Site: EOG-DOGWOOD 23 FED CTB

Job ID: 880-2137-1 SDG: LEA CO, NM

Client Sample ID: CS-5

Date Collected: 05/12/21 00:00

Lab Sample ID: 880-2137-5 Matrix: Solid

Date Received: 05/13/21 10:10

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3052	05/13/21 14:00	MR	XM
Total/NA	Analysis	8021B		1	3049	05/13/21 17:00	MR	XM
Total/NA	Prep	8015NM Prep			3064	05/13/21 11:18	AM	XM
Total/NA	Analysis	8015B NM		1	3057	05/13/21 14:53	AJ	XM
Soluble	Leach	DI Leach			3071	05/13/21 12:13	SC	XM
Soluble	Analysis	300.0		1	3092	05/14/21 10:51	CH	XM

Client Sample ID: SW-1

Date Collected: 05/12/21 00:00 Date Received: 05/13/21 10:10 Lab Sample ID: 880-2137-6

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 3052 05/13/21 14:00 MR XM Total/NA 8021B MR Analysis 3049 05/13/21 17:20 XM1 Total/NA Prep 8015NM Prep 05/13/21 11:18 ΧM 3064 AM Total/NA 8015B NM ΧM Analysis 3057 05/13/21 17:18 ΑJ Soluble ΧM Leach DI Leach 3071 05/13/21 12:13 SC ΧM Soluble Analysis 300.0 1 3092 05/14/21 10:56 CH

Client Sample ID: SW-2 Lab Sample ID: 880-2137-7

Date Collected: 05/12/21 00:00 Date Received: 05/13/21 10:10

0:00 Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3052	05/13/21 14:00	MR	XM
Total/NA	Analysis	8021B		1	3049	05/13/21 19:10	MR	XM
Total/NA	Prep	8015NM Prep			3064	05/13/21 11:18	AM	XM
Total/NA	Analysis	8015B NM		1	3057	05/13/21 17:38	AJ	XM
Soluble	Leach	DI Leach			3071	05/13/21 12:13	SC	XM
Soluble	Analysis	300.0		1	3092	05/14/21 11:02	CH	XM

Client Sample ID: SW-3

Date Collected: 05/12/21 00:00

Matrix: Solid

Date Received: 05/13/21 10:10

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3052	05/13/21 14:00	MR	XM
Total/NA	Analysis	8021B		1	3049	05/13/21 19:30	MR	XM
Total/NA	Prep	8015NM Prep			3064	05/13/21 11:18	AM	XM
Total/NA	Analysis	8015B NM		1	3057	05/13/21 18:00	AJ	XM
Soluble	Leach	DI Leach			3071	05/13/21 12:13	SC	XM
Soluble	Analysis	300.0		1	3092	05/14/21 11:07	CH	XM

Client: NT Global Job ID: 880-2137-1 Project/Site: EOG-DOGWOOD 23 FED CTB SDG: LEA CO, NM

Client Sample ID: SW-4 Lab Sample ID: 880-2137-9

Date Collected: 05/12/21 00:00 Matrix: Solid Date Received: 05/13/21 10:10

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3052	05/13/21 14:00	MR	XM
Total/NA	Analysis	8021B		1	3049	05/13/21 19:51	MR	XM
Total/NA	Prep	8015NM Prep			3064	05/13/21 11:18	AM	XM
Total/NA	Analysis	8015B NM		1	3057	05/13/21 18:20	AJ	XM
Soluble	Leach	DI Leach			3071	05/13/21 12:13	SC	XM
Soluble	Analysis	300.0		1	3092	05/14/21 11:12	CH	XM

**Client Sample ID: SW-5** Lab Sample ID: 880-2137-10

Date Collected: 05/12/21 00:00 Date Received: 05/13/21 10:10

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3052	05/13/21 14:00	MR	XM
Total/NA	Analysis	8021B		1	3049	05/13/21 20:11	MR	XM
Total/NA	Prep	8015NM Prep			3064	05/13/21 11:18	AM	XM
Total/NA	Analysis	8015B NM		1	3057	05/13/21 18:41	AJ	XM
Soluble	Leach	DI Leach			3071	05/13/21 12:13	SC	XM
Soluble	Analysis	300.0		1	3092	05/14/21 11:18	CH	XM

**Client Sample ID: SW-6** Lab Sample ID: 880-2137-11

Date Collected: 05/12/21 00:00 **Matrix: Solid** Date Received: 05/13/21 10:10

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3052	05/13/21 14:00	MR	XM
Total/NA	Analysis	8021B		1	3049	05/13/21 20:32	MR	XM
Total/NA	Prep	8015NM Prep			3064	05/13/21 11:18	AM	XM
Total/NA	Analysis	8015B NM		1	3057	05/13/21 19:01	AJ	XM
Soluble	Leach	DI Leach			3070	05/13/21 11:58	SC	XM
Soluble	Analysis	300.0		1	3078	05/13/21 16:26	SC	XM

**Client Sample ID: SW-7** Lab Sample ID: 880-2137-12

Date Collected: 05/12/21 00:00 **Matrix: Solid** Date Received: 05/13/21 10:10

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3052	05/13/21 14:00	MR	XM
Total/NA	Analysis	8021B		1	3049	05/13/21 20:52	MR	XM
Total/NA	Prep	8015NM Prep			3064	05/13/21 11:18	AM	XM
Total/NA	Analysis	8015B NM		1	3057	05/13/21 19:22	AJ	XM
Soluble	Leach	DI Leach			3070	05/13/21 11:58	SC	XM
Soluble	Analysis	300.0		1	3078	05/13/21 16:42	SC	XM

Laboratory References:

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

Eurofins Xenco, Midland

Matrix: Solid

## **Accreditation/Certification Summary**

Client: NT Global Job ID: 880-2137-1
Project/Site: EOG-DOGWOOD 23 FED CTB SDG: LEA CO, NM

#### Laboratory: Eurofins Xenco, Midland

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

uthority	Pr	ogram	Identification Number	Expiration Date 06-30-21		
exas	NE	ELAP	T104704400-20-21			
The following analytes	are included in this report by	t the laboratory is not cortifi	ied by the governing authority. This list ma	avianduda analutaa fai		
the agency does not of	fer certification.	•	, , ,	ay include analytes for		
,	• •	Matrix	Analyte	ay include analytes lo		
the agency does not of	fer certification.	•	, , ,	ay include analytes lo		

## **Method Summary**

Client: NT Global

Project/Site: EOG-DOGWOOD 23 FED CTB

Job ID: 880-2137-1

SDG: LEA CO, 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
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

Eurofins Xenco, Midland

Page 28 of 32 Released to Imaging: 8/12/2021 9:02:18 AM

## **Sample Summary**

Client: NT Global

Project/Site: EOG-DOGWOOD 23 FED CTB

Job ID: 880-2137-1

SDG: LEA CO, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-2137-1	CS-1	Solid	05/12/21 00:00	05/13/21 10:10
380-2137-2	CS-2	Solid	05/12/21 00:00	05/13/21 10:10
80-2137-3	CS-3	Solid	05/12/21 00:00	05/13/21 10:10
80-2137-4	CS-4	Solid	05/12/21 00:00	05/13/21 10:10
30-2137-5	CS-5	Solid	05/12/21 00:00	05/13/21 10:10
30-2137-6	SW-1	Solid	05/12/21 00:00	05/13/21 10:10
-2137-7	SW-2	Solid	05/12/21 00:00	05/13/21 10:10
2137-8	SW-3	Solid	05/12/21 00:00	05/13/21 10:10
-2137-9	SW-4	Solid	05/12/21 00:00	05/13/21 10:10
-2137-10	SW-5	Solid	05/12/21 00:00	05/13/21 10:10
0-2137-11	SW-6	Solid	05/12/21 00:00	05/13/21 10:10
80-2137-12	SW-7	Solid	05/12/21 00:00	05/13/21 10:10

Relinquished by (Signature)

Received by (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date 05012020 Rev 2020.

otice: 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 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 Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$6 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

880-2137 Chain of Custody

Work Order No:	
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Project Manager Mike Carmona

Company Name   Mile Curronnel   Company Name   Co																							_				
Index   Carmon   Company Name   Card Wells	Additio	WS	MS	MS	WS	WS	CŞ	CS	CS	CS	CS	Sample ide	Total Containers:	Sample Custody Sea	Cooler Custody Sea	Received Intact:	SAMPLE RECE	P0#:	Sampler's Name:	Project Location	Project Number	Project Name.	Phone.	City, State ZIP.	Address:	Company Name	Project Manager
Bill for (#defenent)	onal Comments	-5	4	۵	-2	-1	5	4	-3	.2	-	ntification		Yes	Yes					Le		Dogwoo	432-813-0263	Midland, TX 79	701 Tradewind	NTG Environm	Mike Carmona
Bill for (fidifferent)   Todd Wells	71	5/12/2021	5/12/2021	5/12/2021	5/12/2021	5/12/2021	5/12/2021	5/12/2021	5/12/2021	5/12/2021	5/12/2021	Date			1	Z	p Blank:		ES	a Co, NM	214188	d 23 Fed C1		706	s BLVD	ental	
Bill to: (Indifferent)   Todd Wells			ı	ı	1	1		-	1	ı	ı	Time	Corrected	Temperat	Correction	Thermom	Yes No					В					
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Loc: 880 **2137** 

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		(Signature)	irge of \$85.00 will be a	locument and relinqui	Additional Comments:							писацоп			s: Yes No	×	(Yes)	Temp Blank.			Lea	21	Dogwood	432-813-0263	Midland, TX 79706	701 Tradewinds BLVD	NTG Environmental	Mike Carmona
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Revised Date 05012020 Rev 2020.1

## **Login Sample Receipt Checklist**

Client: NT Global Job Number: 880-2137-1 SDG Number: LEA CO, NM

List Source: Eurofins Midland Login Number: 2137

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	

# **Environment Testing America**

# **ANALYTICAL REPORT**

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

Laboratory Job ID: 880-2286-1

Laboratory Sample Delivery Group: Lea County, NM Client Project/Site: EOG-DOGWOOD 23 Fed CTB

For:

NT Global 701 Tradewinds Blvd Midland, Texas 79706

Attn: Mike Carmona

MRAMER

Authorized for release by: 5/20/2021 2:54:03 PM

Jessica Kramer, Project Manager (432)704-5440

iessica.kramer@eurofinset.com

.....LINKS .....

Review your project results through

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**Have a Question?** 



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www.eurofinsus.com/Env

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

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

Client: NT Global
Project/Site: EOG-DOGWOOD 23 Fed CTB

Laboratory Job ID: 880-2286-1 SDG: Lea County, NM

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# **Definitions/Glossary**

Client: NT Global Job ID: 880-2286-1 Project/Site: EOG-DOGWOOD 23 Fed CTB SDG: Lea County, NM

## **Qualifiers**

## **GC VOA**

Qualifier **Qualifier Description** S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected. U

## **GC Semi VOA**

Qualifier **Qualifier Description** 

U Indicates the analyte was analyzed for but not detected.

### HPLC/IC

RL

RPD

TEF

**TEQ** 

TNTC

Qualifier **Qualifier Description** 

Reporting Limit or Requested Limit (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

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

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
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)
D.	

## **Case Narrative**

Client: NT Global

Job ID: 880-2286-1 Project/Site: EOG-DOGWOOD 23 Fed CTB SDG: Lea County, NM

Job ID: 880-2286-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative 880-2286-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 5/19/2021 9:11 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 6.0° C.

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

#### GC Semi VOA

Method 8015B NM: All quality control biased high indicating possible high bias in samples. All sample is non-detect under the implied high bias therefore the data has been qualified and reported.

(CCV 880-3220/30)

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

### **General Chemistry**

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

## **Organic Prep**

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

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

# **Client Sample Results**

Client: NT Global

Project/Site: EOG-DOGWOOD 23 Fed CTB

Job ID: 880-2286-1

SDG: Lea County, NM

Lab Sample ID: 880-2286-1

Matrix: Solid

**Client Sample ID: SW-3** 

Date Collected: 05/18/21 00:00 Date Received: 05/19/21 09:11

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/19/21 14:30	05/19/21 20:17	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/19/21 14:30	05/19/21 20:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/19/21 14:30	05/19/21 20:17	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/19/21 14:30	05/19/21 20:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/19/21 14:30	05/19/21 20:17	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/19/21 14:30	05/19/21 20:17	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		05/19/21 14:30	05/19/21 20:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				05/19/21 14:30	05/19/21 20:17	1
1,4-Difluorobenzene (Surr)	98		70 - 130				05/19/21 14:30	05/19/21 20:17	1

Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		05/19/21 15:00	05/19/21 19:46	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		05/19/21 15:00	05/19/21 19:46	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/19/21 15:00	05/19/21 19:46	1
Total TPH	<50.0	U	50.0		mg/Kg		05/19/21 15:00	05/19/21 19:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				05/19/21 15:00	05/19/21 19:46	1
o-Terphenyl	129		70 - 130				05/19/21 15:00	05/19/21 19:46	1

Method: 300.0 - Anions, Ion Chroi	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.1		4.97		mg/Kg			05/19/21 22:06	1

Client Sample ID: SW-4 Lab Sample ID: 880-2286-2 Date Collected: 05/18/21 00:00 **Matrix: Solid** 

Date Received: 05/19/21 09:11

(GRO)-C6-C10

Released to Imaging: 8/12/2021 9:02:18 AM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/19/21 14:30	05/19/21 20:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/19/21 14:30	05/19/21 20:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/19/21 14:30	05/19/21 20:38	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/19/21 14:30	05/19/21 20:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/19/21 14:30	05/19/21 20:38	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/19/21 14:30	05/19/21 20:38	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		05/19/21 14:30	05/19/21 20:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				05/19/21 14:30	05/19/21 20:38	1
1,4-Difluorobenzene (Surr)	98		70 - 130				05/19/21 14:30	05/19/21 20:38	1
- Method: 8015B NM - Diesel Ra	ange 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		05/19/21 15:00	05/19/21 20:07	1

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Project/Site: EOG-DOGWOOD 23 Fed CTB

Client: NT Global

Job ID: 880-2286-1

mg/Kg

SDG: Lea County, NM

Client Sample ID: SW-4

Date Collected: 05/18/21 00:00 Date Received: 05/19/21 09:11

Lab Sample ID: 880-2286-2

Matrix: Solid

Method: 8015B NM - Diesel Rang	je Organics (D	(UC)	onunueu)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		05/19/21 15:00	05/19/21 20:07	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/19/21 15:00	05/19/21 20:07	1
Total TPH	<49.9	U	49.9		mg/Kg		05/19/21 15:00	05/19/21 20:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				05/19/21 15:00	05/19/21 20:07	1
o-Terphenyl	113		70 - 130				05/19/21 15:00	05/19/21 20:07	1
Mathadi 200 0 Aniana Ian Chu		Oakabla							
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

**Client Sample ID: SW-5** Lab Sample ID: 880-2286-3

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Date Collected: 05/18/21 00:00 Date Received: 05/19/21 09:11

Chloride

05/19/21 22:21

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/19/21 14:30	05/19/21 20:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/19/21 14:30	05/19/21 20:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/19/21 14:30	05/19/21 20:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/19/21 14:30	05/19/21 20:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/19/21 14:30	05/19/21 20:58	1
Xylenes, Total	< 0.00399	U	0.00399		mg/Kg		05/19/21 14:30	05/19/21 20:58	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/19/21 14:30	05/19/21 20:58	1

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	4-Bromofluorobenzene (Surr)	143	S1+	70 - 130	05/19/21 14:30	05/19/21 20:58	1
l	1,4-Difluorobenzene (Surr)	91		70 - 130	05/19/21 14:30	05/19/21 20:58	1

Method. 00 13D MM - Dieser Kang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		05/19/21 15:00	05/19/21 20:28	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0	1	mg/Kg		05/19/21 15:00	05/19/21 20:28	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0	1	mg/Kg		05/19/21 15:00	05/19/21 20:28	1
Total TPH	<50.0	U	50.0	ı	mg/Kg		05/19/21 15:00	05/19/21 20:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				05/19/21 15:00	05/19/21 20:28	1
o-Terphenyl	118		70 - 130				05/19/21 15:00	05/19/21 20:28	1

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.1	4.95	mg/Kg			05/19/21 22:26	1

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# **Surrogate Summary**

Client: NT Global Job ID: 880-2286-1
Project/Site: EOG-DOGWOOD 23 Fed CTB SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-2286-1	SW-3	110	98	
880-2286-2	SW-4	109	98	
880-2286-3	SW-5	143 S1+	91	
LCS 880-3223/1-A	Lab Control Sample	100	93	
LCSD 880-3223/2-A	Lab Control Sample Dup	99	94	
MB 880-3223/5-A	Method Blank	106	91	
Surrogate Legend				
BFB = 4-Bromofluoroben	zene (Surr)			
DFBZ = 1,4-Difluorobenz	ene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-2286-1	SW-3	112	129
880-2286-2	SW-4	106	113
880-2286-3	SW-5	107	118
LCS 880-3219/2-A	Lab Control Sample	105	103
LCSD 880-3219/3-A	Lab Control Sample Dup	106	113
MB 880-3219/1-A	Method Blank	110	129

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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## **QC Sample Results**

Client: NT Global Job ID: 880-2286-1
Project/Site: EOG-DOGWOOD 23 Fed CTB SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3223/5-A

Matrix: Solid

Analysis Batch: 3232

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3223

	MB M	IB .					
Analyte	Result Q	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200 U	0.00200	mg/Kg		05/19/21 08:58	05/19/21 12:42	
Toluene	<0.00200 U	0.00200	mg/Kg		05/19/21 08:58	05/19/21 12:42	
Ethylbenzene	<0.00200 U	0.00200	mg/Kg		05/19/21 08:58	05/19/21 12:42	
m-Xylene & p-Xylene	<0.00400 U	0.00400	mg/Kg		05/19/21 08:58	05/19/21 12:42	
o-Xylene	<0.00200 U	0.00200	mg/Kg		05/19/21 08:58	05/19/21 12:42	
Xylenes, Total	<0.00400 U	0.00400	mg/Kg		05/19/21 08:58	05/19/21 12:42	
Total BTEX	<0.00400 U	0.00400	mg/Kg		05/19/21 08:58	05/19/21 12:42	

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106	70 - 130	05/19/21 08:58	05/19/21 12:42	1
1,4-Difluorobenzene (Surr)	91	70 - 130	05/19/21 08:58	05/19/21 12:42	1

Lab Sample ID: LCS 880-3223/1-A

Matrix: Solid

Analysis Batch: 3232

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 3223

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09271		mg/Kg		93	70 - 130	
Toluene	0.100	0.1156		mg/Kg		116	70 - 130	
Ethylbenzene	0.100	0.1164		mg/Kg		116	70 - 130	
m-Xylene & p-Xylene	0.200	0.2404		mg/Kg		120	70 - 130	
o-Xylene	0.100	0.1163		mg/Kg		116	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	100	70 - 130
1.4-Difluorobenzene (Surr)	93	70 - 130

Lab Sample ID: LCSD 880-3223/2-A

Matrix: Solid

**Analysis Batch: 3232** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3223

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Benzene 0.100 0.09617 mg/Kg 96 70 - 130 35 Toluene 0.100 0.1154 mg/Kg 115 70 - 130 35 0 0.100 Ethylbenzene 0.1159 mg/Kg 116 70 - 130 0 35 0.200 0.2367 35 m-Xylene & p-Xylene mg/Kg 118 70 - 130 0.100 0.1149 70 - 130 35 o-Xylene mg/Kg 115

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1.4-Difluorobenzene (Surr)	94	70 - 130

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## QC Sample Results

Client: NT Global Job ID: 880-2286-1 Project/Site: EOG-DOGWOOD 23 Fed CTB SDG: Lea County, NM

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

Lab Sample ID: MB 880-3219/1-A

**Analysis Batch: 3220** 

**Matrix: Solid** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3219

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		05/19/21 08:36	05/19/21 10:13	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		05/19/21 08:36	05/19/21 10:13	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/19/21 08:36	05/19/21 10:13	1
Total TPH	<50.0	U	50.0		mg/Kg		05/19/21 08:36	05/19/21 10:13	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	05/19/21 08:36	05/19/21 10:13	1
o-Terphenyl	129		70 - 130	05/19/21 08:36	05/19/21 10:13	1

Lab Sample ID: LCS 880-3219/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 3220** 

Prep Batch: 3219 Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 970.2 97 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1191 mg/Kg 119 70 - 130

C10-C28)

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 105 70 - 130 o-Terphenyl 103 70 - 130

Lab Sample ID: LCSD 880-3219/3-A

**Matrix: Solid** 

**Analysis Batch: 3220** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3219

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 995.0 99 70 - 13020 Gasoline Range Organics mg/Kg 3 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1250 125 mg/Kg 70 - 1305 20 C10-C28)

LCSD LCSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 106 70 - 130 113 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3235/1-A

**Matrix: Solid** 

Chloride

**Analysis Batch: 3259** 

Client Sample ID: Method Blank

**Prep Type: Soluble** 

MB MB Analyte Result Qualifier RL

<5.00 U 5.00 MDL Unit mg/Kg D Prepared

Analyzed 05/19/21 21:19

Dil Fac

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# **QC Sample Results**

Client: NT Global Job ID: 880-2286-1 Project/Site: EOG-DOGWOOD 23 Fed CTB

SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-3235/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 3259

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	253.5		mg/Kg		101	90 - 110	

Lab Sample ID: LCSD 880-3235/3-A **Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 3259** 

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	249.6		mg/Kg		100	90 - 110	2	20

Released to Imaging: 8/12/2021 9:02:18 AM

# **QC Association Summary**

Client: NT Global

Project/Site: EOG-DOGWOOD 23 Fed CTB

Job ID: 880-2286-1 SDG: Lea County, NM

**GC VOA** 

Prep Batch: 3223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2286-1	SW-3	Total/NA	Solid	5035	
880-2286-2	SW-4	Total/NA	Solid	5035	
880-2286-3	SW-5	Total/NA	Solid	5035	
MB 880-3223/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3223/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3223/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 3232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2286-1	SW-3	Total/NA	Solid	8021B	3223
880-2286-2	SW-4	Total/NA	Solid	8021B	3223
880-2286-3	SW-5	Total/NA	Solid	8021B	3223
MB 880-3223/5-A	Method Blank	Total/NA	Solid	8021B	3223
LCS 880-3223/1-A	Lab Control Sample	Total/NA	Solid	8021B	3223
LCSD 880-3223/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3223

**GC Semi VOA** 

Prep Batch: 3219

<b>Lab Sample ID</b> 880-2286-1	Client Sample ID SW-3	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
880-2286-2	SW-4	Total/NA	Solid	8015NM Prep	
880-2286-3	SW-5	Total/NA	Solid	8015NM Prep	
MB 880-3219/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3219/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3219/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

**Analysis Batch: 3220** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2286-1	SW-3	Total/NA	Solid	8015B NM	3219
880-2286-2	SW-4	Total/NA	Solid	8015B NM	3219
880-2286-3	SW-5	Total/NA	Solid	8015B NM	3219
MB 880-3219/1-A	Method Blank	Total/NA	Solid	8015B NM	3219
LCS 880-3219/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3219
LCSD 880-3219/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3219

HPLC/IC

Leach Batch: 3235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2286-1	SW-3	Soluble	Solid	DI Leach	
880-2286-2	SW-4	Soluble	Solid	DI Leach	
880-2286-3	SW-5	Soluble	Solid	DI Leach	
MB 880-3235/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3235/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3235/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 3259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2286-1	SW-3	Soluble	Solid	300.0	3235
880-2286-2	SW-4	Soluble	Solid	300.0	3235
880-2286-3	SW-5	Soluble	Solid	300.0	3235

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# **QC Association Summary**

Client: NT Global Job ID: 880-2286-1 Project/Site: EOG-DOGWOOD 23 Fed CTB SDG: Lea County, NM

# HPLC/IC (Continued)

**Analysis Batch: 3259 (Continued)** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-3235/1-A	Method Blank	Soluble	Solid	300.0	3235
LCS 880-3235/2-A	Lab Control Sample	Soluble	Solid	300.0	3235
LCSD 880-3235/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3235

Client: NT Global

Project/Site: EOG-DOGWOOD 23 Fed CTB

Job ID: 880-2286-1

SDG: Lea County, NM

**Client Sample ID: SW-3** 

Date Collected: 05/18/21 00:00 Date Received: 05/19/21 09:11

Lab Sample ID: 880-2286-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	3223	05/19/21 14:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3232	05/19/21 20:17	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3219	05/19/21 15:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3220	05/19/21 19:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	3235	05/19/21 15:00	CH	XEN MID
Soluble	Analysis	300.0		1			3259	05/19/21 22:06	SC	XEN MID

Lab Sample ID: 880-2286-2

Date Collected: 05/18/21 00:00

**Matrix: Solid** 

Date Received: 05/19/21 09:11

Client Sample ID: SW-4

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	3223	05/19/21 14:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3232	05/19/21 20:38	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	3219	05/19/21 15:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3220	05/19/21 20:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	3235	05/19/21 15:00	СН	XEN MID
Soluble	Analysis	300.0		1			3259	05/19/21 22:21	SC	XEN MID

**Client Sample ID: SW-5** Lab Sample ID: 880-2286-3

**Matrix: Solid** 

Date Collected: 05/18/21 00:00 Date Received: 05/19/21 09:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	3223	05/19/21 14:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3232	05/19/21 20:58	MR	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3219	05/19/21 15:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			3220	05/19/21 20:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	3235	05/19/21 15:00	CH	XEN MID
Soluble	Analysis	300.0		1			3259	05/19/21 22:26	SC	XEN MID

Laboratory References:

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

# **Accreditation/Certification Summary**

Client: NT Global Job ID: 880-2286-1
Project/Site: EOG-DOGWOOD 23 Fed CTB SDG: Lea County, NM

## Laboratory: Eurofins Xenco, Midland

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

Authority	Pr	ogram	Identification Number	<b>Expiration Date</b>
Texas	NI	ELAP	T104704400-20-21	06-30-21
The following analytes:	are included in this report hi	it the laboratory is not certifi	ed by the governing authority. This list ma	v include analytes for
the agency does not of	. ,	at the laboratory is not certifi	ed by the governing admonty. This list me	ay include analytes for
0 ,	. ,	Matrix	Analyte	ay include analytes for
the agency does not of	fer certification.	•	, , ,	

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# **Method Summary**

Client: NT Global

Project/Site: EOG-DOGWOOD 23 Fed CTB

Job ID: 880-2286-1

SDG: Lea County, NM

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

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#### 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:

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

# **Sample Summary**

Client: NT Global

Project/Site: EOG-DOGWOOD 23 Fed CTB

Job ID: 880-2286-1

SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-2286-1	SW-3	Solid	05/18/21 00:00	05/19/21 09:11	
880-2286-2	SW-4	Solid	05/18/21 00:00	05/19/21 09:11	
880-2286-3	SW-5	Solid	05/18/21 00:00	05/19/21 09:11	

Phone:

City, State ZIP

Project Manager

Mike Carmona

Bill to. (if different) Company Name: Address.

EOG Resources 5509 Champions Dr

State of Project:

Program: UST/PST PRP Brownfields RRC

□uperfund

Work Order Comments

Todd Wells

ENVIRONMENTA

Company Name:

NTG Environmental 701 Tradewinds BLVD

ddress:

SAMPLE RECEIPT

Received Intact:

Sampler's Name:

Project Location

Project Number

Project Name:

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in of Clien	

ork Order No: \_

Relinquished by	tice. Signature of this service. Xenco will b Kenco. A minimum c	Addito					SW-5	SW-4	SW-3	Sample Identification	tal Containers.	imple Custody Seals	oler Custody Seals	eceived Intact:	AMPLE RECEIPT	#	impler's Name:	oject Location	oject Number	oject Name:	lone:	y, State ZIP
y (Signature)	tice. 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 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 Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$8 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Additoinal Comments:					-5	4	-3	ntification	A CONTRACTOR OF THE PROPERTY O	Yes	Yes	(e)				Le		Dogwoo	432-312-7736	Midland, TX 79706
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Redeived by (Signature)	utes a valid purc ssume any resp a charge of \$5 fo						×	×	×	Soil	Corrected Temperature:	Temperature Reading:	Factor	eriD.	Wet Ice:	lab, if rece	TAT starts the	Due Date	Routine	Tur	Email	
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	lient company osses or expe bmitted to Xer						C 1	C 1	C 1	Grab/ # of Comp Cont	C	_	<u> </u>	aran	nete		the		Code		@eogreso	0
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Received by: (Signature)								-			· · · · · · · · · · · · · · · · · · ·		но								Ą	₽
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ֶם										ple Co	orbic A	Zn Acetate+NaOH Zn	$laSO_3$	IABIS		_	_	_	_	ervativ	Other:	□RRP [
Date/Time										Sample Comments	NaOH+Ascorbic Acid SAPC	Zn				NaOH Na	HNO. HN	MeOH Me	DI Water: H <sub>2</sub> O	Preservative Codes		Level IV

Revised Date 05012020 Rev 2020.

# **Login Sample Receipt Checklist**

Client: NT Global Job Number: 880-2286-1 SDG Number: Lea County, NM

Login Number: 2286 List Source: Eurofins Xenco, Midland

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 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	

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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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 32314

## CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	32314
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date				
chensley	None	8/12/2021				