



June 18, 2024

District Supervisor
Oil Conservation Division, District 2
506 W. Texas Ave.
Artesia, New Mexico 88210

**Re: REVISED Release Characterization and Remediation Work Plan
ADDENDUM
ConocoPhillips (Heritage Concho)
On behalf of Spur Energy Partners LLC
Big George State #3 Battery
Unit Letter J, Section 12, Township 17 South, Range 28 East
Eddy County, New Mexico
2RP-854
Incident ID nMLB1122858011**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (COP) to assess and evaluate current conditions associated with a historical release that occurred from the Big George State #3 (API # 30-015-28759) Battery. The approximate release site coordinates are 32.847612° -104.126449°, located in the Public Land Survey System (PLSS) Unit Letter J, Section 12, Township 17 South, Range 28 East, Eddy County, New Mexico (Site). The Site location is shown on Figures 1 and 2. The site is located on State land. The site is currently operated by Spur Energy Partners, LLC (Spur).

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report (Appendix A), the release was discovered on July 27, 2011. The release occurred due to a sudden rush of production causing a tank overflow due to an alarm system failure. Approximately 50 barrels (bbls) of produced water were released, of which 45 barrels (bbls) of produced water were reported recovered via vacuum truck. The NMOCD received the initial C-141 on August 2, 2011, and subsequently assigned the release the Remediation Permit (RP) number 2RP-854 and the Incident ID pMLB1122858011. The spill area measured roughly 900 square feet and all fluids were reported as contained inside the facility walls.

COINCIDENT RELEASE FOOTPRINT

Approximately 8 months later, according to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, a coincident release was discovered at the site on March 12, 2012. The release occurred due to a ¼" nipple on discharge side of a water pump. Approximately 8 barrels (bbls) of produced water were released, of which 7 barrels (bbls) of produced water were reported recovered via vacuum truck. The NMOCD received the initial C-141 on March 26, 2012, and subsequently assigned the release the Remediation Permit (RP) number 2RP-1079 and the Incident ID nMLB1209641725. The spill area measured roughly 600 square feet on location inside of the tank battery, with an overspray area of approximately 1500 square feet reported outside of the tank battery. As reported by BBC, the spill area is nearly identical to the pMLB1122858011 spill from July 27, 2011. These coincident releases were assessed concurrently in the current release characterization process.

Tetra Tech

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BBC ASSESSMENT, WORK PLAN AND REMEDIAL ACTION

On behalf of COG (predecessor), BBC International, Incorporated (BBC) was initially contracted to assess the impacts at the Site. The reported spill measured roughly 30' x 30' inside the facility walls from the July 27, 2011, release. Assessment activities and a description of the remedial action are documented in a BBC Closure Report. The two releases were addressed by BBC in one report.

The approximate release extent(s) were identified based on information provided by COG and ConocoPhillips representatives, and a review of photographs and other BBC documentation. As mentioned in the C-141, the release was contained inside the containment firewall. The GPS in the information provided from BBC is an on-pad location, approximately 50' north of the tank battery.

Initial delineation assessment was conducted at the Site on August 15, 2011, by BBC. The site delineation occurred after the initial spill response activities had been conducted by COG. Six sample points (SP1 through SP6) were advanced in the leak area using a hand auger to a total depth of 8 feet. Three samples were taken from SP1 at depths of 1 foot, 4 feet, and 8 feet. Two samples were taken from SP2 at depths of 1 foot and 4 feet. Three samples were taken from SP3 at depths of 1 foot, 3 feet, and 5 feet. Three samples were taken from SP4 at depths of 1 foot, 4 feet, and 6 feet. Three samples were taken SP5 at depths of 1 foot, 3 feet, and 7 feet. Two samples were taken from SP6 at depths of 1 foot and 3 feet. The samples were taken to Cardinal Laboratories for chloride analysis.

After discussion with the NMOCD, all parties involved agreed that additional sampling was warranted. Therefore, additional samples were collected at the agreed upon locations of SP1, SP4, and SP7. During the second sampling event, the former reserve drilling pit was discovered in the areas of SP1(A) and SP1(B). The approximate pit area is located inside the north-eastern side of the tank battery and then further north and east. As documented in the BBC report, BBC representatives met with Mike Bratcher, NMOCD, prior to the second release and the parties agreed upon a remediation plan. As documented in the report, the NMOCD agreed to allow the previously approved remediation plan to incorporate both release extents.

According to the BBC Closure Report, from July 9 to July 20, 2012, BBC personnel were onsite to remediate the release footprints in accordance with the approved remediation plan, including excavation, disposal, clay liner installation and backfill. Impacted soils were excavated to approximately 2 feet bgs inside the battery firewall, north of sample location SP4(A). Following excavation, the area was backfilled with an impermeable barrier consisting of 1-foot of compacted clay. The remaining 1-foot was then backfilled with like battery material. Upon completion of the approved remediation plan, the NMOCD agreed that no further action was required, and permission was granted to close the site. A copy of the BBC Closure Report is included in Appendix B. An approximate remedial extent is indicated in Figure 3. Results from the 2011 soil assessment are summarized in Table 1.

NMOCD CORRESPONDENCE

Although BBC submitted a closure report, based on online NMOCD imaging correspondence from Bradford Billings, NMOCD, both 2RP-854 and 2RP-1079 are deferred by the Oil Conservation Division (OCD). NMOCD imaging files state:

"some contamination left in place due to equipment. clean up deferred until site abandonment>> C-141 rec'd 8/2/11 for release on 7/27/11. Reported 50 bbls PW released w/45 bbls recovered. Source listed as water tank. Cause listed as sudden rush of production caused tank overflow - alarm system failure. Area affected approx 30'x30' inside bermed battery area. Contaminated gravel removed. Samples will be obtained for analyses."

As such, per NMOCD, these sites were indicated as deferred until Plugging & Abandonment (P&A) activities. Although not specifically detailed, when the battery had been abandoned, the site would be scheduled for remediation to officially close the incidents. Spur has provided documentation that the battery was decommissioned in December 2022.

SLO CORRESPONDENCE

As noted above, this site is currently operated by Spur Energy Partners, LLC (Spur). COP was contacted based on Spur's request to NMSLO to re-activate the Big George State #3 SWD which shares a pad with the battery. Because this well is on State lands, it requires an SWD easement with NMSLO. Spur recently received email correspondence from Mike McMillan with NMSLO requesting that Spur clean up these two open spills (2RP-1079 and 2RP-854). Associated regulatory correspondence is included in Appendix C.

Based on the SLO directives, and the assumed environmental liability retained by COP/hCXO for Spur sites, the release Site required recharacterization to determine the path forward for remedial action. Thus, the recent scope of work conducted involved additional site characterization and the vertical delineation of the release extent.

SITE CHARACTERIZATION

A site characterization was performed and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). The Site is within a New Mexico oil and gas production area. The Site is in an area of medium karst potential. The site characterization data is presented in Appendix D.

DTW DETERMINATION

There are no water wells listed in the New Mexico Office of the State Engineer (NMOSE) database located with approximately ½ mile (800 meters) of the site. A licensed well drilling subcontractor was onsite on January 3, 2023, to drill a groundwater determination borehole (DTW) to 55 feet bgs at the northwest of the Big George State #3 lease pad. The borehole is indicated on Figure 4. The borehole was temporarily set and screened using 2-inch PVC well materials: 20 feet of blank casing and 35 feet of 0.010" slotted screen. The borehole was left for 72 hours and checked for the presence of groundwater. The borehole was dry upon drilling, and no water was present in the well after 72 hours. After gauging, the borehole was plugged with 3/8" bentonite chips. The boring log is presented in Appendix D.

REGULATORY FRAMEWORK

Based upon the on-pad release footprint, depth-to-water boring and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site are as follows:

Constituent	Site RRAL
Chloride	10,000 mg/kg
TPH (GRO+DRO+ORO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
BTEX	50 mg/kg

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule (19.15.29 NMAC)* (September 6, 2019), the following reclamation requirements for surface soils (0-4 feet bgs) are as follows:

Constituent	Reclamation Requirement
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg
BTEX	50 mg/kg

INITIAL 2023 SITE ASSESSMENT ACTIVITIES AND RESULTS

Tetra Tech personnel were onsite to delineate and sample the former battery area and vicinity in January 2023. A total of twenty-one (21) soil borings (BH-1 through BH-21) were installed with a truck-mounted air rotary drilling rig and eight (8) soil borings (AH-1 through AH-8) were installed using hand auger to evaluate the vertical and horizontal extent of the release(s). The sampling locations associated with the site assessment activities are shown on Figure 4.

A total of one hundred sixty-six (166) samples were collected from the sample locations and transferred under chain of custody and analyzed within appropriate holding times by Cardinal Laboratories (Cardinal) and analyzed for TPH via Method 8015 Modified, chloride via Method SM4500Cl-B, and BTEX via Method 8021B. Photographic documentation of Site conditions prior and during site assessment activities is included in Appendix E. A copy of the laboratory analytical reports and chain-of-custody documentation are included in Appendix F.

Results from the January 2023 soil sampling event are summarized in Table 2. Analytical results associated with the 0-1 interval at boring location BH-21 exceeded the proposed Site RRALs for TPH in soils. All other analytical results from the January 2023 sampling were below Site RRALs. An anomalous result for TPH was detected in a subsurface interval in BH-12, well outside the reported release extent. This TPH RRAL exceedance is presumably related to an unrelated historical release, based on the uncontaminated surface soil.

REMEDIATION WORK PLAN REJECTION

A Work Plan was submitted by Tetra Tech on behalf of COP, dated February 27, 2023, to the NMOCD via the portal describing the assessment activities and sampling results. The Work Plan was denied by Ms. Brittany Hall on June 8, 2023, with the following comments:

- *Remediation plan denied. Horizontal and vertical delineation will need to be completed at BH-12. Delineation at BH-12 will need to be completed at approximately the same location of the original borehole. A borehole within 1-2 feet of the original borehole location will be acceptable. Horizontal delineation will need to occur in the four cardinal directions of the BH-12/the replacement borehole for BH-12.*
- *2RP-854 closed. Refer to incident #NMLB1122858011 in all future correspondence.*
- *Submit a complete report through the OCD Permitting website by 9/8/2023.*

The denial comments can be found on OCD Permitting, Incident Events for incident nMLB1122858011.

ADDITIONAL 2023 ASSESSMENT AND SAMPLING RESULTS (BH-12)

On June 20, 2023, Tetra Tech personnel returned to the Site to reassess the area of boring location BH-12 based on the NMOCD rejection. One (1) soil boring (BH-12R) was installed with a truck-mounted air rotary drilling rig to a total depth of 10-feet bgs, and sampled on one-foot intervals, per request. BH-12R was drilled approximately 2 feet east of the original BH-12 location.

The boring location was sampled continuously from surface to total depth. A total of ten (10) samples were collected from the BH-12R boring location, transferred under chain of custody, and analyzed within appropriate hold times by Cardinal for TPH via Method 8015 Modified, chloride via Method SM4500Cl-B, and BTEX via Method 8021B. A copy of the laboratory analytical reports and chain-of-custody documentation is included in Appendix F.

Results from the June 2023 soil sampling event are summarized in Table 3. All analytical results associated with boring location BH-12R were below the proposed Site RRALs for chloride, TPH and BTEX. The findings from the previous investigation were not confirmed with the redrilled boring. Based on the lack of potential environmental impacts in the analytical results, no further assessment of soils (both vertically and horizontally) was completed at the Site.

REVISED REMEDIATION WORK PLAN REJECTION

A Revised Work Plan was submitted by Tetra Tech on behalf of COP, dated August 24, 2023, to the NMOCD via the portal describing the additional assessment activities and sampling results. The Revised Work Plan was denied by Ms. Brittany Hall on September 20, 2023, with the following comments:

- *The OCD spoke to a Spur representative and Spur stated that they will not be building in the vicinity of the release location.*
- *Per 19.15.29.12 (C)(2) The responsible party shall restore the impacted surface area of a release occurring on a developed well pad, central tank battery, drilling site, compressor site or other exploration, development, production or storage sites to meet the standards of Table I of 19.15.29.12 NMAC or other applicable remediation standards and restore and reclaim the area pursuant to 19.15.29.13 NMAC.*
- *As the area of the release is no longer reasonably needed for production operations or for subsequent drilling operations, the site must meet the requirements of 19.15.29.12 NMAC and 19.15.29.13 NMAC. Horizontal delineation of BH-12 was not completed in the four cardinal directions as instructed in the previous rejection for this incident number, see application ID 191222. Horizontal delineation will need to be completed.*
- *Submit a complete report through the OCD Permitting website by 12/20/2023.*

The denial comments can be found on OCD Permitting, Incident Events for incident nMLB1122858011.

A 90-day extension for incident ID (nMLB1122858011) was submitted to the NMOCD on December 13, 2023. The Extension was approved on December 15, 2023, for a new due date of March 19, 2024. Regulatory correspondence is included in Appendix C.

SUPPLEMENTAL 2024 ASSESSMENT AND SAMPLING RESULTS

On January 9, 2024, Tetra Tech personnel returned to the Site to provide supplemental data by reassessing the area of boring location BH-12 based on the NMOCD rejection. Four (4) supplemental soil borings (BH-12-24 A through BH-12-24 D) were installed with a truck-mounted air rotary drilling rig to a total depth of 10-feet bgs, and sampled on one-foot intervals, per OCD request. The boring locations were drilled in the cardinal directions; approximately 5 feet from the original BH-12/BH-12R locations.

As mentioned, the boring locations were sampled continuously from surface to total depth. A total of ten (40) samples were collected from the 4 boring locations, transferred under chain of custody, and analyzed within appropriate hold times by Cardinal for TPH via Method 8015 Modified, chloride via Method SM4500Cl-B, and BTEX via Method 8021B. A copy of the laboratory analytical reports and chain-of-custody documentation is included in Appendix F.

Results from the January 2024 soil sampling event are summarized in Table 4. All analytical results were below the proposed reclamation requirements and Site RRALs for chloride, TPH and BTEX. Horizontal delineation of the original BH-12 location was completed in the four cardinal directions as instructed in the OCD correspondence for this incident number. These four supplemental borings provide the necessary data to not only complete horizontal and vertical delineation of the BH-12 area, but the BH-12 area as a whole is now bound to the west by original drilled boring BH-10 to the west (for which collected data was below reclamation requirements) and boring AH-2 to the south.

Based on the location of these borings and the analytical results, no further assessment of soils (both vertically and horizontally) is required at the Site. The OCD stipulations have been fulfilled.

SPUR ENERGY PARTNERS CORRESPONDENCE

On April 16, 2024, ConocoPhillips Program Manager, Ike Tavarez and Spur EHS manager, Braidy Moulder met on site to inspect and determine areas needed for the continuing operation of the facility. Per Braidy Moulder, existing guy-line safety anchors in the intercardinal directions must remain in place on pad for the

REVISED Release Characterization and Remediation Work Plan ADDENDUM
June 18, 2024

ConocoPhillips

current and continuing operation and maintenance of the active SWD well. The guy-line safety anchors are located approximately 60 ft from the SWD (locations indicated in Figure 4).

To maintain structural integrity of the existing guy-line safety anchor points, an additional 12 ft from the edge of the pad mandated by Spur, thus, the boundary of the developed well pad needed for production operations has been established. This newly established pad boundary is indicated in Figures 4 through 7. During remedial activities, heavy machinery will remain outside these exclusion zones to avoid any disturbance to the structural integrity of the anchors. COP and Spur have agreed that these areas are needed for production operations or for subsequent workover rig operations. The extents of this pad have been established and duly recognized by both Spur and ConocoPhillips.

As of June 11, 2024, Tetra Tech has been provided documentation that Spur will be moving a temporary Hpump System onto the Big George lease pad this month, and that it will be in operation for the next 4 – 6 months. As a result, Spur requested that the remediation and reclamation be put on hold until the temporary system is relocated off pad. Correspondence with Spur is included in Appendix C.

OCD CORRESPONDENCE

A conference call was held on March 19, 2024 between Tetra Tech and NMOCD representatives Mike Bratcher and Brittany Hall discussing the pad and pasture boundary, previous NMOCD rejection, and the proposed remedial action at the site. During the call, the NMOCD was informed of the approximate location of the new boundary edge which demarcated the pad to the west and the pasture to the east. During the call, the OCD corroborated that remedial action limits (RRALs) could be used to compare on-pad analytical results remaining to the west of boundary edge to complete remedial activities. The OCD verified that if the areas to the east meet reclamation standards, then the remediation closure report would be approved.

OCD maintained that the responsible party (Spur) would be responsible for reclamation of any remaining on-pad areas. ConocoPhillips has coordinated with Spur Representatives regarding the proposed remedial action at the site and the Work Plan Addendum. An extension was requested on March 21, 2024 to allow time for continuing correspondence between COP and Spur. The extension was approved on March 21, 2024, by Brittany Hall with a new due date of June 17, 2024. Regulatory correspondence is included as Appendix C.

REVISED REMEDIATION WORK PLAN - ADDENDUM

Based on discussions and Spur's current and continuing operation and maintenance of the active SWD well, impact discovered east of the established pad boundary will be excavated as indicated in Figure 5. Impacted soils will be excavated using heavy equipment (backhoes, hoe rams, and track hoes) to a maximum depth of 7-feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation is below the applicable reclamation requirements/RRALs.

Tetra Tech personnel will collect confirmation samples to be evaluated for chloride, TPH and BTEX (Figure 6). If concentrations exceed the reclamation standards (or site RRALs below 4 feet), the defined areas will be further excavated until a representative sample from the bottom of the excavation is below the reclamation standards/applicable RRALs. Any area containing pressurized lines will be hand-dug to the proposed depth shown on Figure 5 or the maximum extent practicable; heavy equipment will come no more than 4 feet from any pressurized lines, and no more than 12 feet from guy-line safety anchors.

The area of the anomalous result for TPH in a subsurface interval in boring BH-12 is proposed for excavation and removal. Confirmation sampling will be conducted at that area to confirm the efficacy of the remedial action (as indicated in Figure 6).

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Prior to confirmation sampling the NMOCD district office will be notified via the portal in accordance with Subsection D of 19.15.29.12 NMAC. Confirmation floor and sidewall samples will be collected for verification of remedial activities and analyzed for TPH, BTEX, and chloride. The estimated total volume of material to be remediated is approximately 445 cubic yards.

CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, COPC proposes the following confirmation sampling plan to adhere with NMOCD requirements (Figure 6). Fourteen (14) confirmation floor sample and twelve (12) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 4,481 square feet.

These confirmation sidewall and floor samples will be representative of no more than approximately 400 square feet of excavated area. Confirmation samples will be sent to an accredited analytical laboratory for analysis of chloride, TPH, and BTEX. Once acceptable results are received, the excavation will then be backfilled with clean material to surface grade.

SITE RECLAMATION AND RESTORATION PLAN

Following completion of the proposed remedial activities and once the reclamation requirements are achieved in the upper four feet of soil, disturbed areas will be reclaimed. Additionally, areas undisturbed by the remediation (Figure 7) will be ripped and disced.

This backfilled area and ripped areas east of the pad boundary will be seeded post-remediation (or in the first favorable growing season) to aid in revegetation. Based on the location of the Site, the NMSLO Sandy Loam (SL) Sites Seed Mixture will be used for seeding and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled. The entire proposed reclamation extent is depicted in Figure 7.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The NMSLO seed mixture details and corresponding pounds pure live seed per acre are included in Appendix G.

CONCLUSION

ConocoPhillips proposes to begin remediation and reclamation activities at the Site within 120 days of NMOCD plan approval, with concurrence from Spur. Upon completion of the proposed work, a final closure report detailing the remediation and reclamation activities and the results of the confirmation sampling will be submitted to the NMOCD. The area shall be reclaimed in accordance with 19.15.29.13 NMAC as the Site is no longer being used for oil and gas operations. The completed C-141 forms are enclosed in Appendix A.

The 2RP-1079 work plan will be submitted under separate cover. COP requests that both historical releases (2RP-1079 and 2RP-854) and subsequent work plans for the Site be reviewed concurrently. If you have any questions concerning the soil assessment or the proposed remedial activities for the Site, please call me at (512) 560-9064 or Christian at (512) 338-2861.

Sincerely,
Tetra Tech, Inc.



Nicholas M. Poole G.I.T.
Project Manager



Christian M. Llull, P.G.
Program Manager

cc:
Mr. Ike Tavarez, RMR – ConocoPhillips
Sarah Chapman, Regulatory Director, Spur Energy Partners
Michael McMillan, Petroleum Specialist, Oil, Gas, and Minerals Division, NMSLO

LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Site Location/Topographic Map
- Figure 3 – Approximate Release Extent and Site Assessment (BBC)
- Figure 4 – Approximate Release Extent and Site Assessment (Tetra Tech)
- Figure 5 – Proposed Remediation Extent
- Figure 6 – Alternative Confirmation Sampling Plan
- Figure 7 – Proposed Reclamation Extent

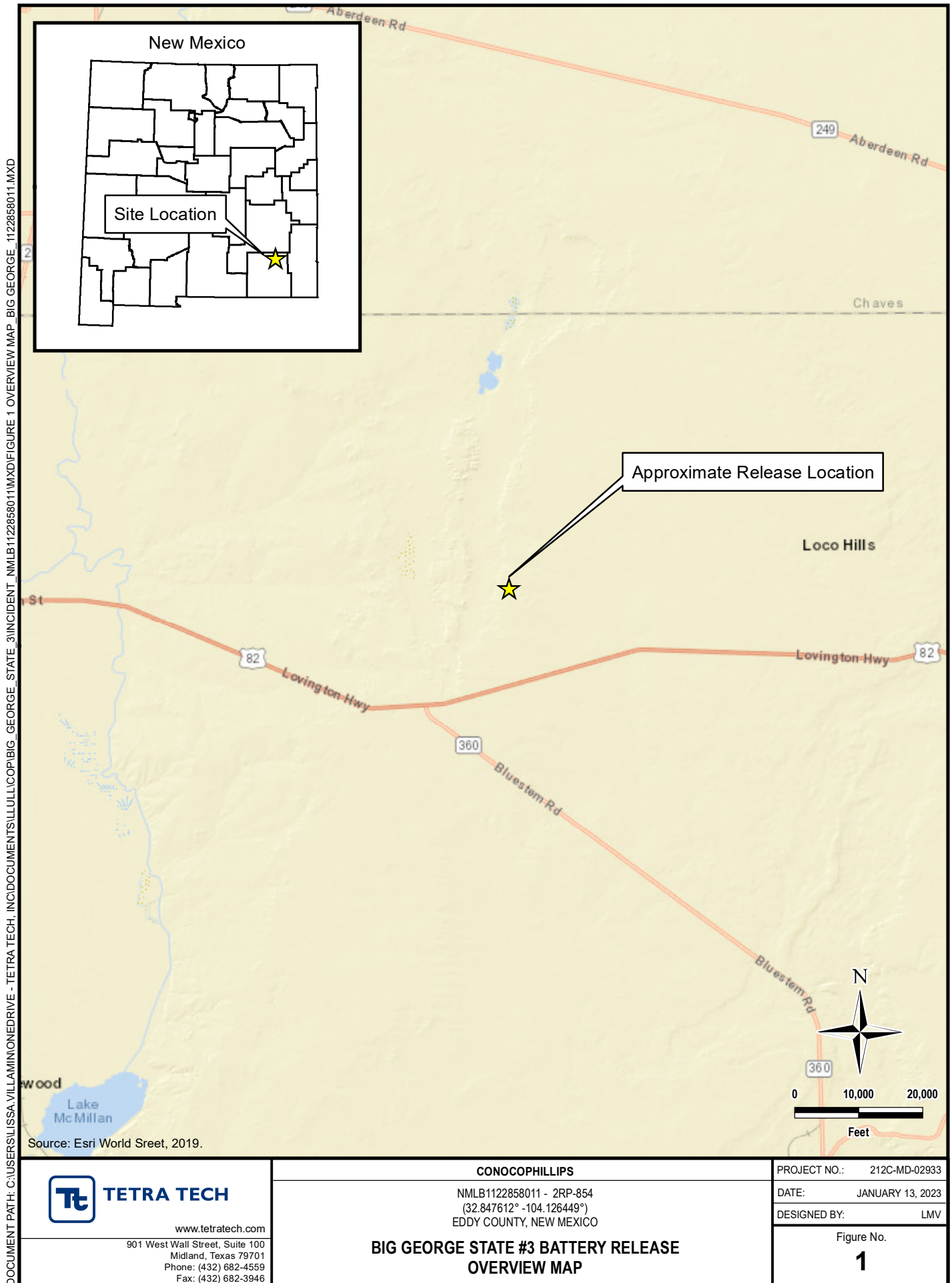
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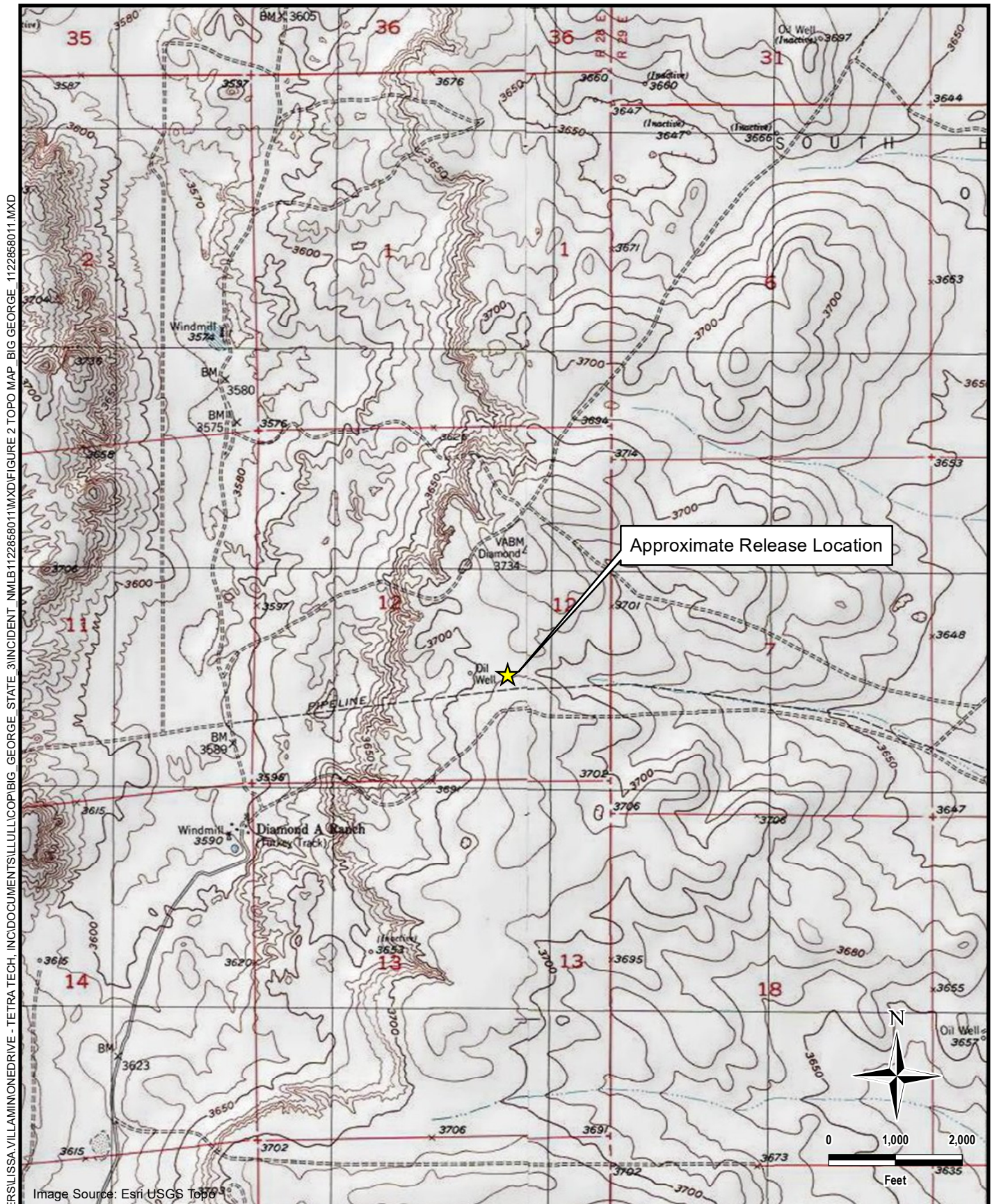
- Table 1 – Summary of Analytical Results – 2011 BBC Soil Assessment
- Table 2 – Summary of Analytical Results – 2023 Soil Assessment
- Table 3 – Summary of Analytical Results – 2023 Additional Soil Assessment
- Table 4 – Summary of Analytical Results – 2024 Additional Soil Assessment

Appendices:

- Appendix A – C-141 Forms
- Appendix B – BBC Closure Report
- Appendix C – Regulatory Correspondence
- Appendix D – Site Characterization Data
- Appendix E – Photographic Documentation
- Appendix F – Laboratory Analytical Data
- Appendix G – NMSLO Seed Mixture

FIGURES





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CONOCOPHILLIPS

NMLB1122858011 - 2RP-854
(32.847612° -104.126449°)
EDDY COUNTY, NEW MEXICO

**BIG GEORGE STATE #3 BATTERY RELEASE
TOPOGRAPHIC MAP**

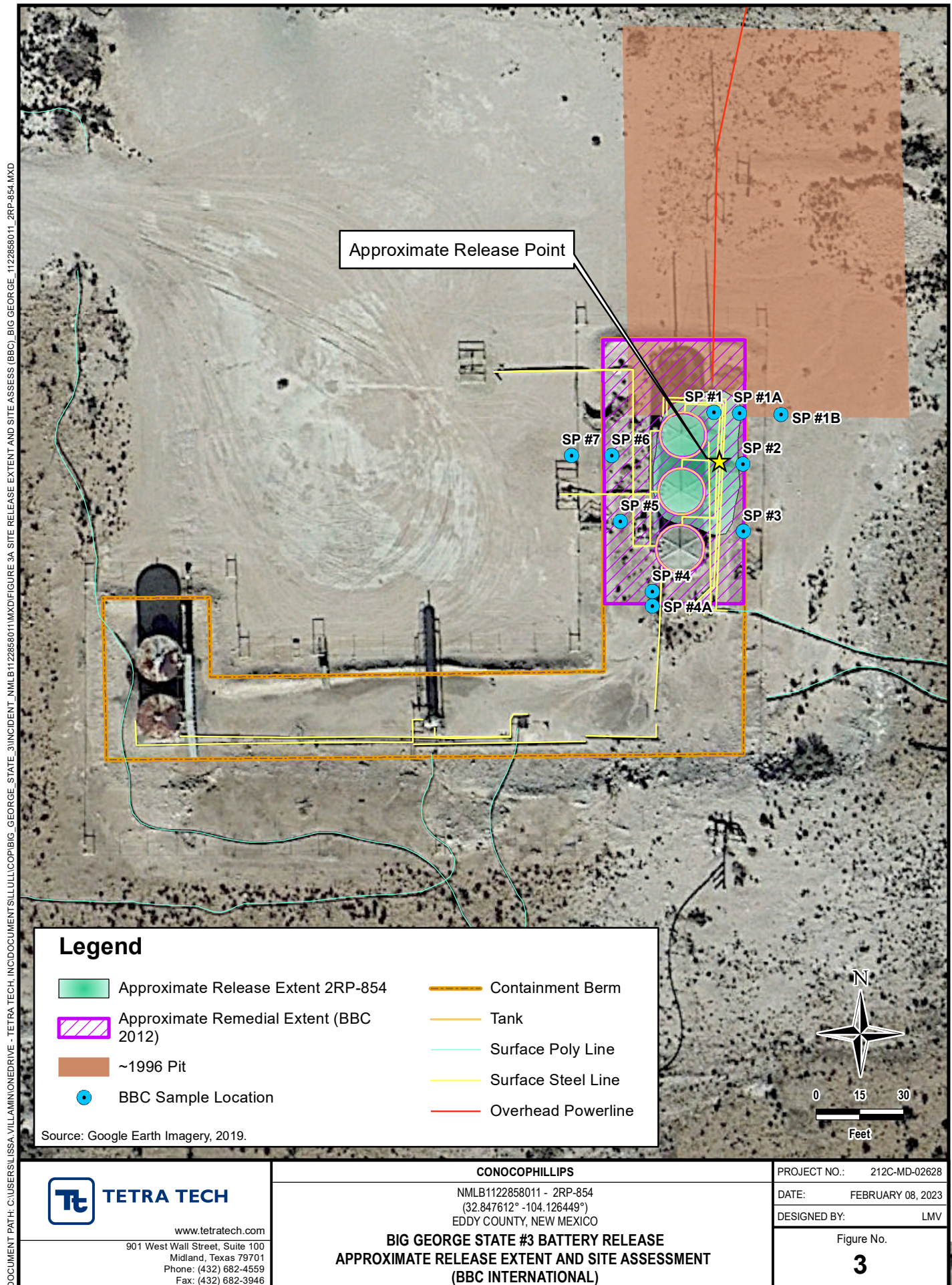
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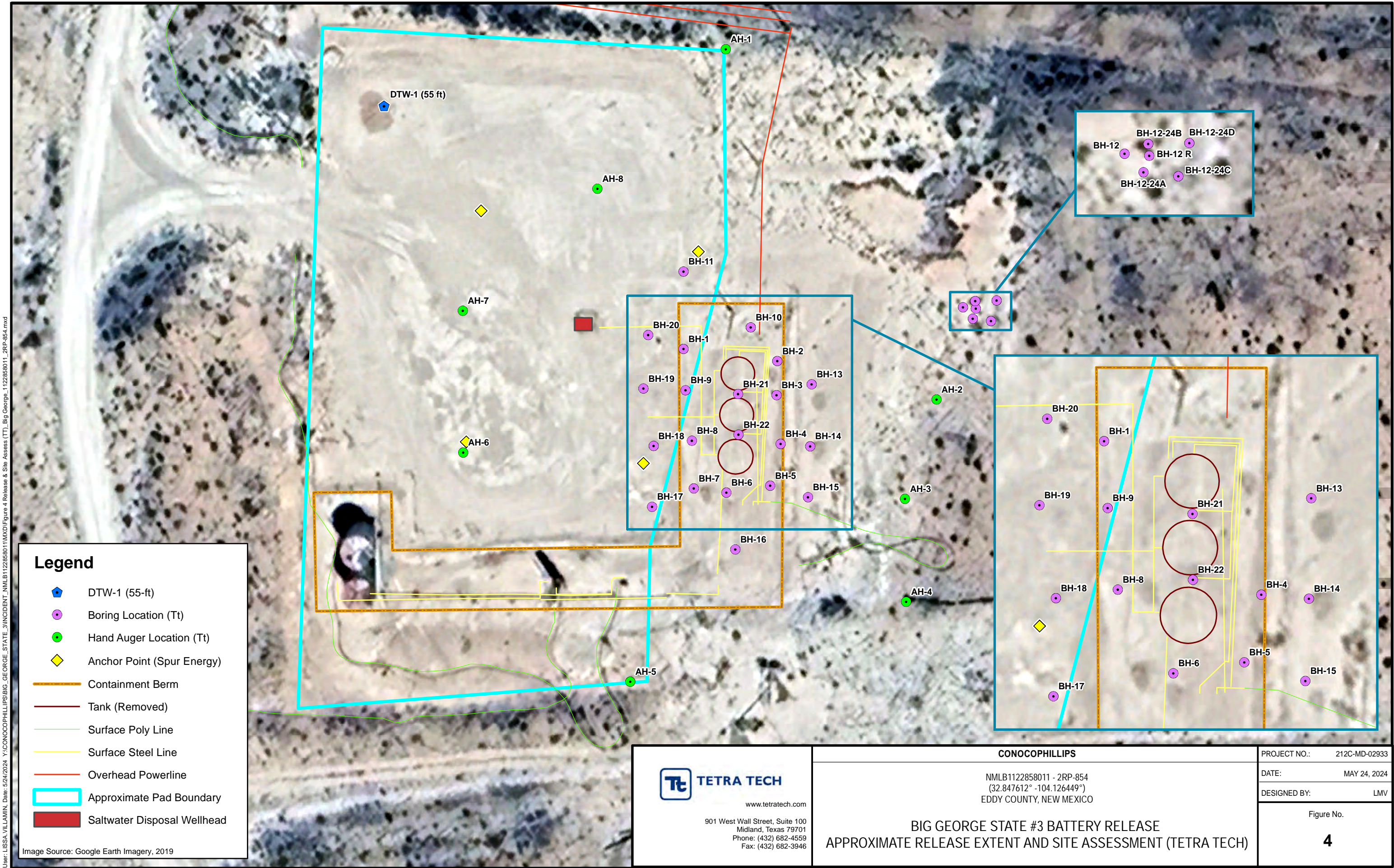
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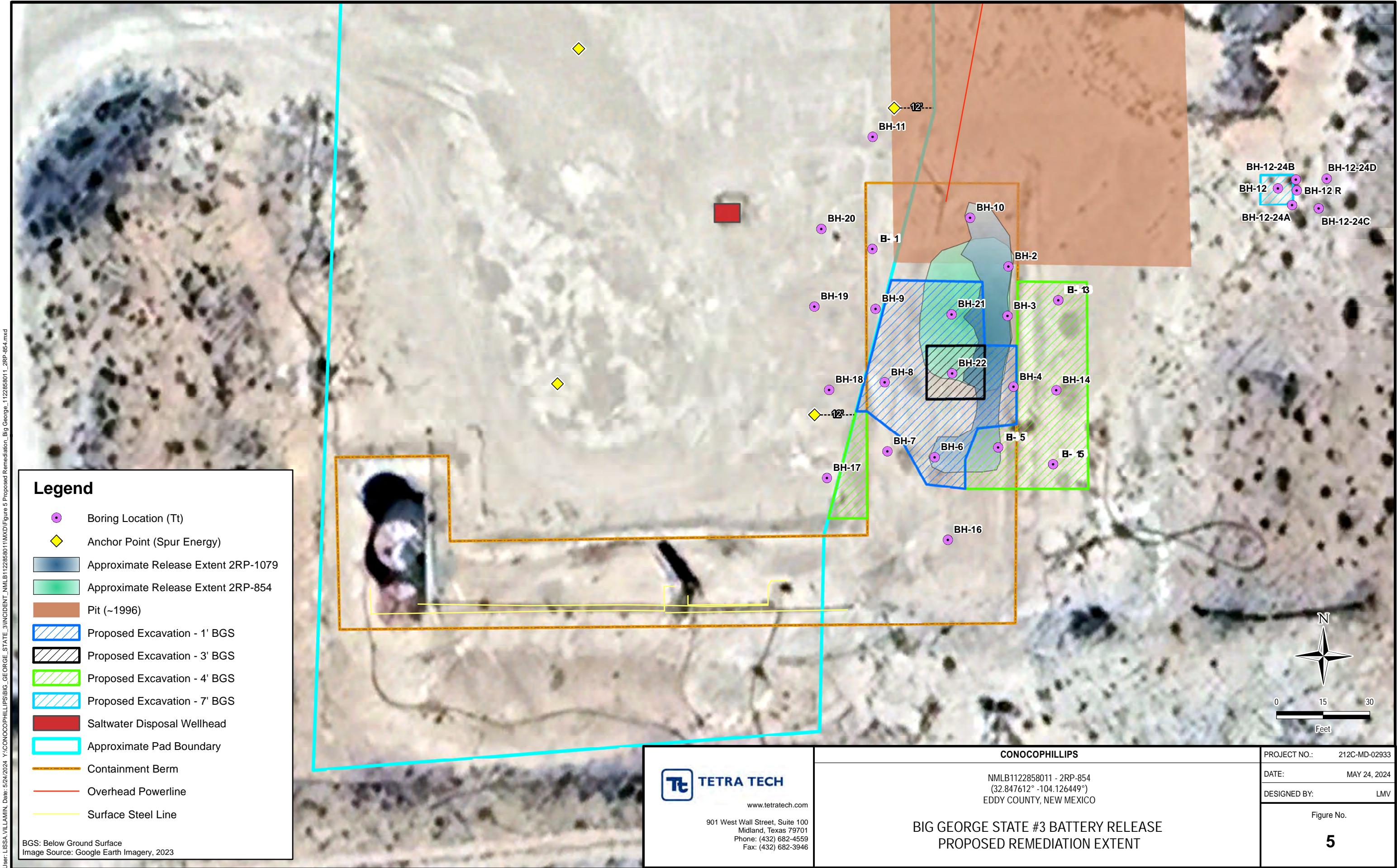
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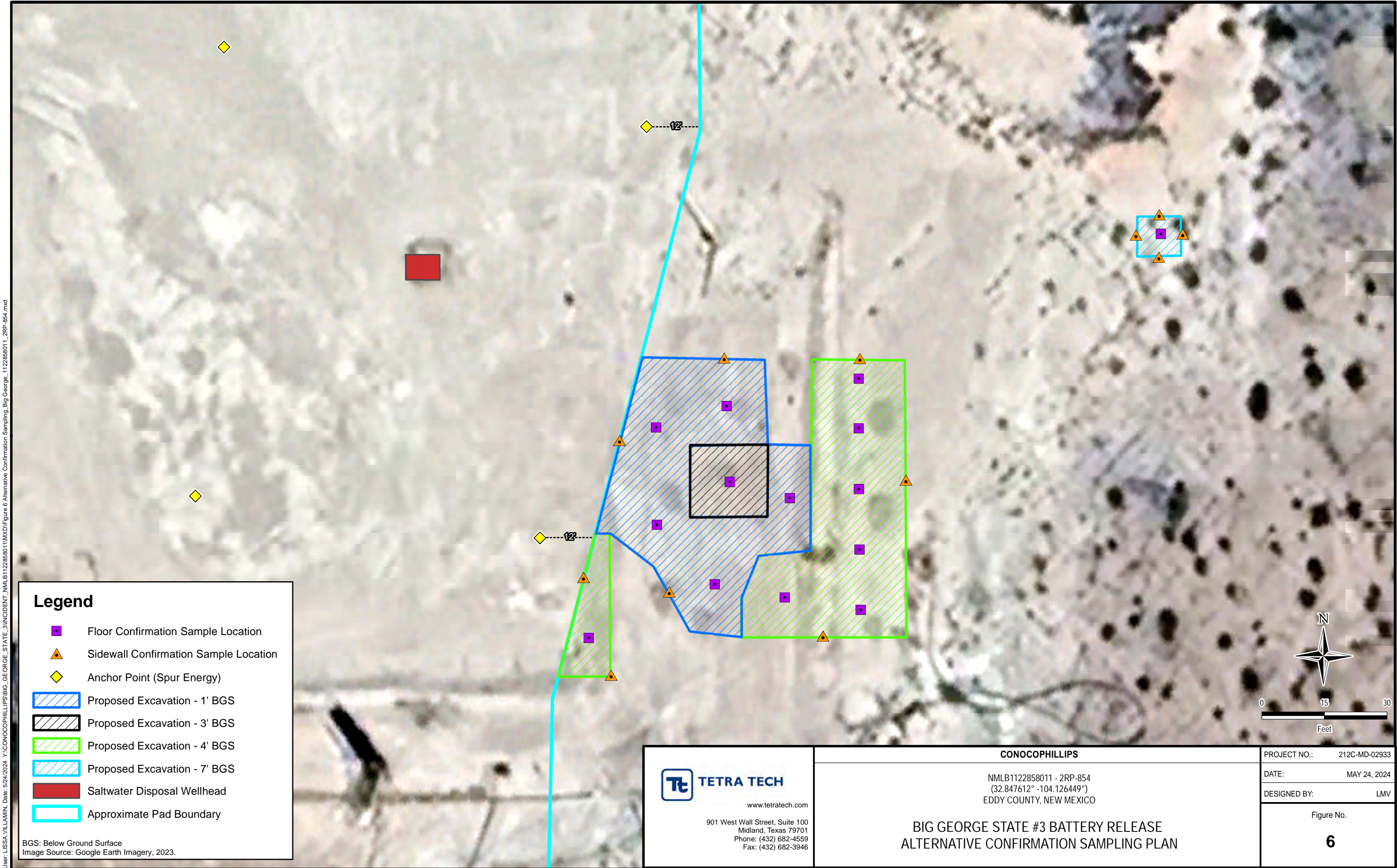
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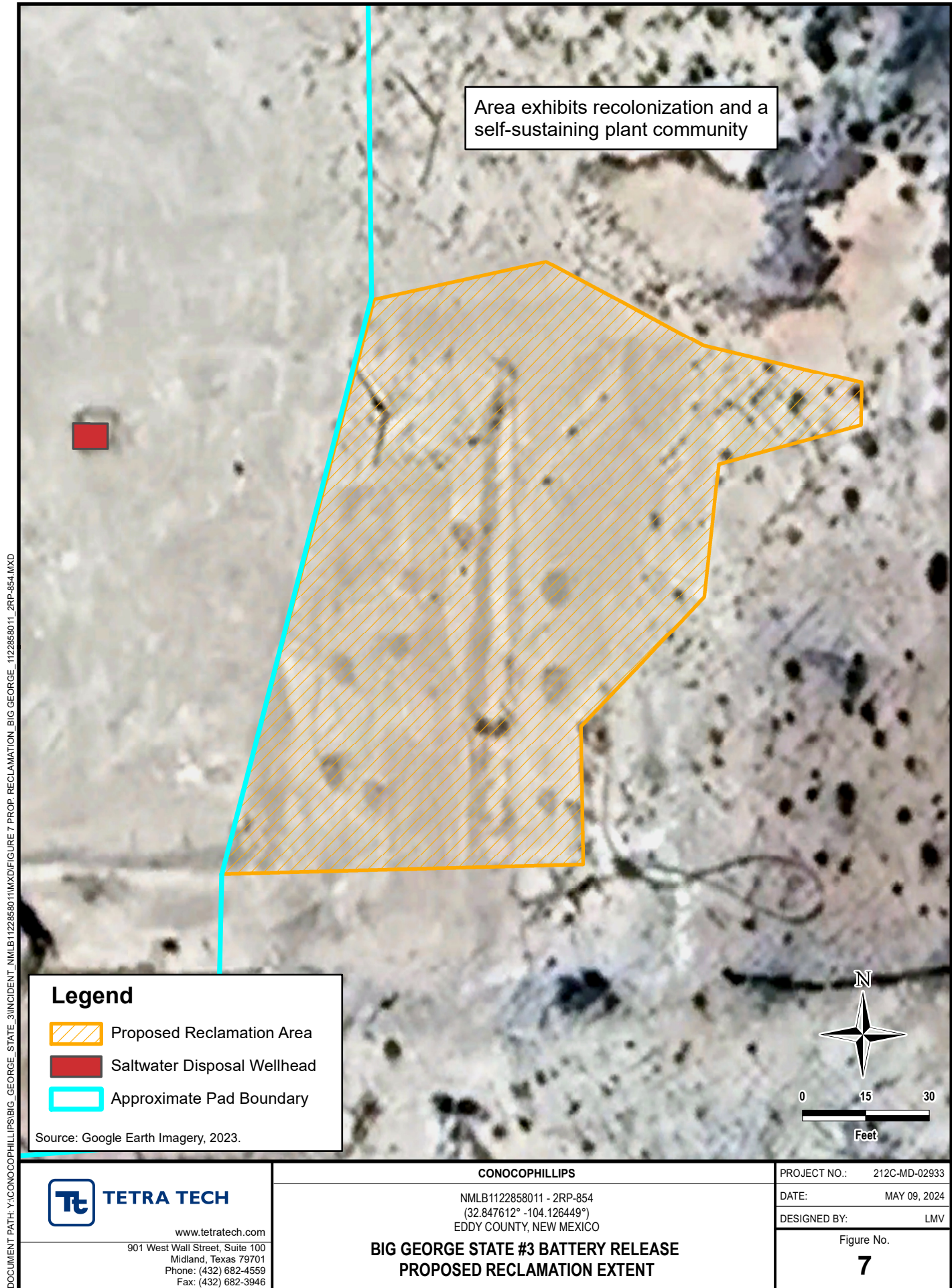
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TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
2011 BBC SOIL ASSESSMENT- nMLB1122858011 and NMLB1209641725
CONOCOPHILLIPS
BIG GEORGE STATE #3
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹	
		ft. bgs	mg/kg	Q
SP1	8/15/2011	1	5,280	
		4	13,600	
		8	9,500	
SP2	8/15/2011	1	20,000	
		4	1,260	
SP3	8/15/2011	1	9,400	
		3	8,600	
		5	272	
SP4	8/15/2011	1	3,680	
		4	10,200	
		6	4,720	
SP5	8/15/2011	1	5,600	
		3	12,800	
		7	1,960	
SP6	8/15/2011	1	4,240	
		3	2,200	
SP1A	9/21/2011	2	14,200	
		4	2,560	
		7	2,920	
		12	11,400	
		17	4,720	
SP1B	9/21/2011	1	6,480	
		4	8,260	
		7	6,720	
SP4A	9/21/2011	7	6,800	
		12	3,520	
		17	2,120	
SP7	9/21/2011	1	1,800	
		3	1,500	
		6	368	

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

QUALIFIERS:

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2023 SOIL ASSESSMENT- nMLB1122858011 and NMLB1209641725
CONOCOPHILLIPS
BIG GEORGE STATE # 3
EDDY COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (51 ft - 100 ft):				Chlorides ¹		BTEX ²										TPH ³							
Sample ID	Sample Date	Sample Depth Interval	Field Screening Results	< 10,000 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		< 2,500 mg/kg	<1,000 mg/kg
			Chlorides	Chloride		Benzene														Total TPH (GRO+DRO+EXT DRO)			
		ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆		mg/kg	mg/kg
AH-1	1/11/2023	0-1	162	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-2	1/11/2023	0-1	78	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-3	1/11/2023	0-1	45	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-4	1/11/2023	0-1	74	<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-5	1/11/2023	0-1	145	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-6	1/11/2023	0-1	256	96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-7	1/11/2023	0-1	485	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
AH-8	1/11/2023	0-1	805	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		76.2		20.0		96.2	76.2
BH-1	1/11/2023	0-1	-	464		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		893		273		1,166	893
		2-3	-	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		3-4	-	96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		4-5	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		6-7	124	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		8-9	112	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		14-15	144	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		19-20	269	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
BH-2	1/11/2023	24-25	179	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		0-1	-	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		2-3	-	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		3-4	-	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		4-5	-	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		6-7	-	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		8-9	387	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		14-15	208	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
BH-3	1/10/2023	19-20	236	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		24-25	246	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		0-1	-	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		2-3	-	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		3-4	-	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		4-5	141	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
BH-4	1/10/2023	6-7	175	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		8-9	-	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		0-1	-	816		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		35.4		<10.0		35.4	35.4
		2-3	-	96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		3-4	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
BH-5	1/10/2023	4-5	251	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		6-7	202	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		0-1	1040	2,080		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		2-3	193	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		3-4	182	912		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
BH-5	1/10/2023	4-5	123	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		6-7	206	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		8-9	188	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2023 SOIL ASSESSMENT- nMLB1122858011 and NMLB1209641725
CONOCOPHILLIPS
BIG GEORGE STATE # 3
EDDY COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (51 ft - 100 ft):				Chlorides ¹		BTEX ²										TPH ³									
Sample ID	Sample Date	Sample Depth Interval	Field Screening Results	< 10,000 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		< 2,500 mg/kg		<1,000 mg/kg	
			Chlorides	Chloride		Benzene								Total BTEX								Total TPH (GRO+DRO+EXT DRO)		GRO+DRO	
			ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
BH-6	1/10/2023	0-1	630	640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		82.8		14.9		97.7		82.8	
		2-3	128	96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		3-4	173	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		4-5	140	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		6-7	133	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		8-9	200	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		14-15	278	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
BH-7	1/11/2023	0-1	-	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		2-3	-	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		3-4	-	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		4-5	-	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		6-7	-	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		8-9	210	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		14-15	253	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		19-20	465	304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		24-25	222	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
29-30	214	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-			
BH-8	1/11/2023	0-1	-	96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		132		73.5		205.5		132	
		2-3	-	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		10.7		11.4		22.1		10.7	
		3-4	-	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		4-5	-	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		6-7	171	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		8-9	284	96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		14-15	427	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		19-20	530	304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
24-25	523	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-			
BH-9	1/11/2023	0-1	-	608		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		168		27.3		195.3		168	
		2-3	-	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		3-4	-	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		4-5	77.6	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		6-7	75.3	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		8-9	89	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
14-15	123	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-			
BH-10	1/10/2023	0-1	123	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		2-3	152	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		3-4	161	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		4-5	210	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		7-8	234	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		9-10	142	16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
BH-11	1/9/2023	0-1	2,020	2,560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		2-3	1,700	1,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		3-4	578	576		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	
		4-5	571	464		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-	

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2023 SOIL ASSESSMENT- nMLB1122858011 and NMLB1209641725
CONOCOPHILLIPS
BIG GEORGE STATE # 3
EDDY COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (51 ft - 100 ft):				Chlorides ¹		BTEX ²										TPH ³									
Sample ID	Sample Date	Sample Depth Interval	Field Screening Results	< 10,000 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		< 2,500 mg/kg		<1,000 mg/kg	
			Chlorides	Chloride		Benzene								Total BTEX								Total TPH (GRO+DRO+EXT DRO)		GRO+DRO	
			ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/kg	
BH-12	1/10/2023	0-1	83.6	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		2-3	350	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		3-4	560	1,020		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		4-5	574	688		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		22.1		<10.0		22.1	22.1		
		6-7	232	288	S-06	<0.050		<0.050		<0.050		<0.150		<0.300		<50.0		2,250		660		2,910	2,250		
7-8	343	272		<0.050		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		638		201		839	638		
BH-13	1/10/2023	0-1	2760	2,760		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		26.9		<10.0		26.9		26.9	
		3-4	1210	1,300		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		4-5	835	1,020		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		6-7	1500	1,330		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		9-10	2010	1,710		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		14-15	3540	5,280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		19-20	2270	1,840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		24-25	2590	2,480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		29-30	1100	1,040		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
34-35	1540	720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-				
39-40	512	800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-				
BH-14	1/10/2023	0-1	1970	2,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		54.8		25.8		80.6		54.8	
		2-3	-	800		<0.050		<0.050		<0.050		<0.150	QR-03	<0.300		<10.0		<10.0		<10.0		-	-		
		3-4	-	624		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		4-5	922	720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		6-7	1130	880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		7-8	1680	1,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		9-10	1410	1,310		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		14-15	3110	5,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		19-20	2430	3,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		24-25	1410	1,570		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
29-30	2610	3,840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-				
34-35	1240	1,440	QM-07	<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-				
39-40	681	704		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-				
44-45	512	640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-				
BH-15	1/9/2023	0-1	3,180	3,200		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		29.4		<10.0		29.4		29.4	
		2-3	-	2,240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		3-4	-	1,620		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		4-5	1,800	1,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		6-7	863	688		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		7-8	570	672		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
9-10	531	416		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	QR-03	<10.0	QR-03	<10.0		-	-				
BH-16	1/10/2023	0-1	530	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		2-3	507	448		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		3-4	587	336		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		4-5	466	304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
		6-7	561	336		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-		
7-8	355	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-				

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
2023 SOIL ASSESSMENT- nMLB1122858011 and NMLB1209641725
CONOCOPHILLIPS
BIG GEORGE STATE # 3
EDDY COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (51 ft - 100 ft):				Chlorides ¹		BTEX ²										TPH ³							
Sample ID	Sample Date	Sample Depth Interval	Field Screening Results	< 10,000 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		< 2,500 mg/kg	<1,000 mg/kg
			Chlorides	Chloride		Benzene								Total BTEX								Total TPH (GRO+DRO+EXT DRO)	GRO+DRO
			ft. bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆			mg/kg	mg/kg
BH-17	1/9/2023	0-1	3,360	4,640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		3-4	4,490	3,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		6-7	1,860	2,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		7-8	1,480	1,340		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		9-10	1,020	976		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		14-15	436	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
BH-18	1/9/2023	0-1	3,580	3,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		2-3	-	3,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		3-4	-	3,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		4-5	3,250	3,280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		7-8	658	928		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		8-9	541	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
BH-19	1/9/2023	0-1	4,580	5,040		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		10.9		<10.0		10.9	10.9
		3-4	1,660	1,720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		6-7	1,260	1,070		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		8-9	450	352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		9-10	373	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
BH-20	1/9/2023	0-1	3,580	3,480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		118		47.6		165.6	118
		3-4	2,120	1,380		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		6-7	1,320	672		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		7-8	672	400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		9-10	436	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
BH-21	1/10/2023	0-1	158	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		3,400		641		4,041	3,400
		2-3	198	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		34.6		<10.0		34.6	34.6
		3-4	183	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		13.5		<10.0		13.5	13.5
		4-5	123	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		11.7		<10.0		11.7	11.7
		6-7	161	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		137		13.9		150.9	137
		8-9	186	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		346		43.0		389.0	346
		14-15	132	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
BH-22	1/10/2023	0-1	4370	5,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		171		36.0		207	171
		2-3	3960	5,360		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		29.2		<10.0		29.2	29.2
		3-4	434	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		6-7	90.4	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		8-9	236	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
		14-15	183	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500CI-B

2 Method 8021B

3 Method 8015M

Bold and italicized values indicate exceedance of proposed RRALs and Reclamation Requirements.

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
2023 ADDITIONAL SOIL ASSESSMENT - nMLB1122858011 and NMLB1209641725
CONOCOPHILLIPS
BIG GEORGE STATE # 3
EDDY COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (51 ft - 100 ft):			Chlorides ¹		BTEX ²										TPH ³											
			< 10,000 mg/kg		< 10 mg/kg								< 50 mg/kg								< 2,500 mg/kg		<1,000 mg/kg			
Sample ID	Sample Date	Sample Depth Interval	Chloride		Benzene																Toluene		Ethylbenzene		Total Xylenes	
			C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆																			
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q
BH-12R	6/19/2023	0-1	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-		-	
		1-2	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-		-	
		2-3	464		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-		-	
		3-4	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-		-	
		4-5	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-		-	
		5-6	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-		-	
		6-7	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-		-	
		7-8	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-		-	
		8-9	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-		-	
		9-10	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-		-		-	

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

Bold and italicized values indicate exceedance of proposed RRALs and Reclamation Requirements.

TABLE 4
SUMMARY OF ANALYTICAL RESULTS
2024 ADDITIONAL SOIL ASSESSMENT - nMLB1122858011 and NMLB1209641725
CONOCOPHILLIPS
BIG GEORGE STATE #3
EDDY COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (51 ft - 100 ft)			Chlorides ¹		BTEX ²										TPH ³								
Sample ID	Sample Date	Sample Depth Interval	< 10,000 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		< 2,500 mg/kg		<1,000 mg/kg
			Chloride		Benzene																Total TPH (GRO+DRO+EXT DRO)		GRO+DRO
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/kg	
BH-12-24 A	1/9/2024	0-1	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		1-2	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		2-3	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		3-4	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		4-5	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		5-6	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		6-7	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		7-8	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		8-9	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
9-10	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-			
BH-12-24 B	1/9/2024	0-1	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		1-2	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		2-3	464		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		3-4	416		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		4-5	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		5-6	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		6-7	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		7-8	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		8-9	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
9-10	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-			
BH-12-24 C	1/9/2024	0-1	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		1-2	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		2-3	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		3-4	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		4-5	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		5-6	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		6-7	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		7-8	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		8-9	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
9-10	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-			
BH-12-24 D	1/9/2024	0-1	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		1-2	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		2-3	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		3-4	272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		4-5	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		5-6	352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		6-7	336		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		7-8	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
		8-9	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-	
9-10	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-			

NOTES:

ft. Feet
bgs Below ground surface
mg/kg Milligrams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
1 Method SM4500Cl-B
2 Method 8021B
3 Method 8015M

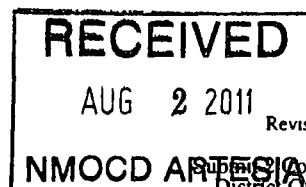
Bold and italicized values indicate exceedance of proposed RRALs and Reclamation Requirements.

APPENDIX A C-141 Forms

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505



Form C-141
Revised October 10, 2003

Submit Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

01141122858011

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	COG OPERATING LLC 229137	Contact	Pat Ellis
Address	550 W. Texas, Suite 100, Midland, TX 79701	Telephone No.	432-230-0077
Facility Name	Big George	Facility Type	Tank Battery
Surface Owner State	Mineral Owner	Lease No. (API#) 30-015-28759	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	12	17S	28E					Eddy

Latitude 32 50.869 Longitude 104 07.595

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	50bbls	Volume Recovered	45bbls
Source of Release	Water tank	Date and Hour of Occurrence	07/27/2011	Date and Hour of Discovery	07/27/2011 10:00 a.m.
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher - OCD		
By Whom?	Josh Russo	Date and Hour	07/28/2011 9:35 a.m.		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A sudden rush of production caused a tank overflow due to an alarm system failure. The alarm has been repaired.

Describe Area Affected and Cleanup Action Taken.*

Initially 50bbls was released from the tank inside the facility walls of the Big George State Tank Battery. We were able to recover 45bbls with a vacuum truck. The spill area measure roughly 30' x 30' inside the facility walls. All free fluid has been picked up and contaminated gravel has been removed. BBC will sample the spill site area to delineate any possible contamination from the release and we will present a work plan to the NMOCD for approval prior to any significant remediation work.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:		OIL CONSERVATION DIVISION	
Printed Name:	Josh Russo	Signed By:	
Title:	HSE Coordinator	Approved by District Supervisor:	
E-mail Address:	jrusso@conchoresources.com	Approval Date:	AUG 16 2011
Date:	08/02/2011	Expiration Date:	
Phone:	432-212-2399	Conditions of Approval:	Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

Remediation per OCD Rules & Guidelines. **SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:**

9/16/2011

2RP-854

Bratcher, Mike, EMNRD

From: Joshua Russo [jrusso@concho.com]
Sent: Tuesday, August 02, 2011 4:23 PM
To: Bratcher, Mike, EMNRD
Cc: Cliff P. Brunson
Subject: Big George SWD - C-141 Initial Report
Attachments: BIG GEORGE SWD -- DATE OF RELEASE -- 07-27-2011.pdf

Mr. Bratcher,

Please see attached the C-141 Initial Report for a release we had at the Big George SWD.

Thank you,

Joshua Russo

HSE Coordinator
550 W. Texas Ave, Suite 100
Midland, Texas 79701
Phone: (432) 683-7443
Cell: (432) 212-2399
jrusso@conchoresources.com



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Bratcher, Mike, EMNRD

From: Joshua Russo [jrusso@concho.com]
Sent: Thursday, July 28, 2011 8:35 AM
To: Bratcher, Mike, EMNRD
Subject: Big George TB release - Notification

Mr. Bratcher,

Please see below the details to a immediately reportable quantity release:

On 07-27-11 at 10:15am, a 50bbl spill of produced water was found at the Big George Battery. The incident was caused by a sudden rush of water coming into battery causing water tanks to run over due to alarm system failure and pump failure. Repaired Murphy on transfer pump and checked out alarm system. All fluid was contained within dike and has been recovered and put back into water tank. We will scrape and removed contaminated soil from within dike. We will follow up with a C-141 Initial Report.

GPS coordinates, driving directions, and legal description listed below.

N 32* 50.869 W 104* 07.595

Big George Battery

Sec.12-T17S-R28E

Eddy County, NM

Off of Hwy 82, T/N on Old Loco Road, to 3 miles, T/W and go 1.5 miles, road curves back to the south, second battery on left.

Thank you,

Joshua Russo

HSE Coordinator

550 W. Texas Ave, Suite 100

Midland, Texas 79701

Phone: (432) 683-7443

Cell: (432) 212-2399

jrusso@conchoresources.com



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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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> 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.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____  Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan


Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____
Signature:  _____ Date: _____
email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

APPENDIX B

BBC Closure Report

SITE INFORMATION

Report Type: Closure Report

General Site Information:			
Site:	Big George State #3 Battery		
Company:	COG Operating LLC		
Section, Township, and Range:	12	17S	28E
Lease Number:	API# 30-015-28759		
County:	Eddy County, NM		
GPS:	N 32 50.869	W 104 07.595	
Surface Owner:	State		
Mineral Owner:			
Directions:	In Loco Hills, from the intersection of Hwy 217 and Hwy 82, go West on Hwy 82 for 7.7 miles to lease road on right, turn right on lease road and go North on main road for 2.8 miles, turn left and go West for 0.3 mile, turn right and go North 0.1 mile to TB on right.		

Release Data:	
Date Released:	7/27/2011 and 03/12/2012
Type of Release:	Produced water
Source of Contamination:	Water tank (07/27/2011) and Water pump (03/12/2012)
Fluid Released:	50 bbls (07/27/2011) and 8 bbls (03/12/2012)
Fluids Recovered:	45 bbls (07/27/2011) and 7 bbls (03/12/2012)

Official Communication:	
Name:	Pat Ellis
Company:	COG Operating LLC
Address:	550 W. Texas Ave., Ste. 1300
PO Box:	
City, State, Zip Code:	Midland, TX 79701
Phone Number:	(432) 686-3023
Fax:	(432) 684-7137
Email:	pellis@conchoresources.com

Ranking Criteria:	
Depth to Groundwater:	Ranking Score
<50 ft.	20
50-99 ft.	10
>100 ft.	0

Well Head Protection:	Ranking Score
Water Source <1,000 ft., Private <200	20
Water Source >1,000 ft., Private >200	0

Surface Body of Water:	Ranking Score
<200 ft.	20
200 ft. - 1,000 ft.	10
>1,000 ft.	0

Total Ranking Score:	10
-----------------------------	----

Acceptable Soil RRAL (mg/kg)		
Benzene	Total BTEX	TPH
10	50	5000





COG Operating LLC

Big George State #3 Battery

(Release Dates 07/27/2011 and 03/12/2012)

Unit J, Section 12, Township 17 South, Range 28 East

Eddy County, New Mexico

GPS: N 32 50.869 W 104 07.595

ENVIRONMENTAL SITE INVESTIGATION

CLOSURE REPORT

PERFORMED BY:

BBC INTERNATIONAL, INC.
WORLD-WIDE ENVIRONMENTAL SPECIALISTS
1324 W. MARLAND BLVD.
P. O. BOX 805
HOBBS, NEW MEXICO 88240
(575) 397-6388 • FAX (575) 397-0397

October 18, 2012

PREPARED FOR:

MR. PAT ELLIS
MANAGER, HSE
COG OPERATING LLC
FASKEN CENTER TOWER II
550 WEST TEXAS AVENUE, SUITE 100
MIDLAND, TEXAS 79701

Mr. Mike Bratcher
Compliance Officer
Oil Conservation Division, District 2
811 South First
Artesia, NM 88210

Re: Closure plan for COG Operating LLC, Big George State #3 Battery,
Unit J, Section 12, Township 17 South, Range 28 East, Eddy County, NM

1.0 SITE CHARACTERIZATION

The subject site is located East of Artesia, in Section 12, Township 17 South, and Range 28 East, Eddy County, New Mexico. The GPS coordinates are: N 32 50.869 W 104 07.595. The site consists of undeveloped rangeland and petroleum production facilities. On July 27, 2011, a sudden rush of production caused a tank overflow due to an alarm system failure. The spill measured roughly 30' x 30' inside the facility walls. Approximately 50 bbls of water were released with approximately 45 bbls being recovered by a vacuum truck. On March 12, 2012, an additional leak was discovered resulting from the failure of a 1/4" nipple on the discharge side of the water pump. The spill area measured roughly 10' x 60' inside the tank battery and an area of overspray measuring roughly 30' x 50' outside the tank battery. Approximately 8 bbls of produced water were release with 7 bbls recovered via vacuum truck.

A diagram of the location including the sample points can be reviewed in Appendix I of this report. The surface soil is tan to brown fine sand and sandy caliche. There is no water source within 1,000 feet of this site. Based on the data from the Eddy County Groundwater Trend Map, the depth to groundwater in Section 12, Township 17 South, and Range 28 East is 50' to 75'. The initial C-141s for both leaks are at the end of this report in Appendix III.

2.0 SITE INVESTIGATION ACTIVITIES

On August 15, 2011, BBC personnel conducted a delineation of the site. The site delineation occurred after initial spill response activities had been conducted by COG. Six sample points were advanced in the leak area using a hand auger to a total depth of 8 feet. Three samples were taken from SP1 at depths of 1 foot, 4 feet and 8 feet. Two samples were taken from SP2 at depths of 1 foot and 4 feet. Three samples were taken from SP3 at depths of 1 foot, 3 feet, and 5 feet. Three samples were taken from SP4 at depths of 1 foot, 4 feet, and 6 feet. Three samples were taken from SP5 at depths of 1 foot, 3 feet, and 7 feet. And, two samples were taken from SP6 at depths of 1 foot and 3 feet. The samples were taken to Cardinal Laboratories for chloride analysis. Laboratory analysis for SP1 was 5,280 ppm at 1 foot, 13,600 ppm at 4 feet, and 9,500 ppm at 8 feet. Laboratory analysis for SP2 was 20,000 ppm at 1 foot, and 1,260 ppm at 4 feet. Laboratory analysis for SP3 was 9,400 ppm at 1 foot, 8,600 ppm at 3

feet, and 272 ppm at 5 feet. Laboratory analysis for SP4 was 3,680 ppm at 1 foot, 10,200 ppm at 4 feet, and 4,720 ppm at 6 feet. Laboratory analysis for SP5 was 5,600 ppm at 1 foot, 12,800 ppm at 3 feet, and 1,960 ppm at 7 feet. Laboratory analysis for SP6 was 4,240 ppm at 1 foot and 2,200 at 3 feet. After further discussion with the NMOCD, all parties involved agreed that additional sampling was warranted. Therefore, additional samples were taken at the agreed upon locations of SP1, SP4, and SP7. Five samples were taken from SP1(A) at depths of 2 feet, 4 feet, 7 feet, 12 feet, and 17 feet. Three samples were taken from SP1(B) at depths of 1 foot, 4 feet, and 7 feet. Three samples were taken from SP4(A) at 7 feet, 12 feet, and 17 feet. And, three samples were taken from SP7 at 1 foot, 3 feet, and 6 feet. These samples were also taken to Cardinal Laboratories for chloride analysis. Laboratory analysis for SP1(A) is 14,200 ppm at 2 foot, 2,560 ppm at 4 foot, 2,920 ppm at 7 foot, 11,400 ppm at 12 feet, and 4,720 ppm at 17 feet. Laboratory analysis for SP1(B) is 6,480 ppm at 1 foot, 8,260 ppm at 4 feet, and 6,720 ppm at 7 feet. Laboratory analysis for SP4(A) is 6,800 ppm at 7 feet, 3,520 ppm at 12 feet, and 2,120 ppm at 17 feet. Laboratory analysis for SP7 is 1,800 ppm at 1 foot, 1,500 ppm at 3 feet, and 368 ppm at 6 feet. The results of the analysis are located in Appendix II of this report. The sample point locations can be viewed on the site diagram in Appendix I of this report.

3.0 CONCLUSION AND RECOMMENDATION

During the second sampling event, the former reserve drilling pit was discovered in the areas of SP1(A) and SP1(B). The pit area exists inside the north-eastern side of the tank battery and then further east. Remnants of the pit contents were discovered as depicted in the pictures located in Appendix IV of this report. The pit contents are a large contributing factor to the high chloride content found in the samples in the SP1(A) and SP1(B) areas.

On December 13, 2011, BBC personnel met with Mike Bratcher of the NMOCD to discuss the laboratory results of the second sampling event. After discussing the findings, the NMOCD agreed to a remediation plan.

Prior to the start of the NMOCD-approved remediation plan, a second release occurred at the site on March 12, 2012. This release was similar to the first one, releasing fluid in the same area as before. The NMOCD agreed to allow the previously approved remediation plan to include the remediation of the leak that occurred on March 12, 2012.

In accordance with the approved remediation plan, excavation of approximately two feet of impacted soil inside the battery firewall down to the southern side of the SP4(A) sample area was completed. The excavation area was then backfilled with an impermeable liner consisting of one foot of compacted clay. The remaining backfill was completed with material similar to the rest of the battery.

Upon completion of the approved remediation plan, the NMOCD agreed that no further action was required and permission was granted to close this site. The site remediation was started on July 9, 2012 and completed on July 20, 2012. Photos of the remediation activities are located in Appendix V of this report.

The final C-141s are located in Appendix III of this report.

APPENDIX I

Site Diagram
September 2011

Big George State #3 Battery (07/27/2011 and 03/12/2012)

Unit J, Section 12, Township 17 South, Range 28 East
Eddy County, NM
GPS: N 32 50.869 W 104 07.595

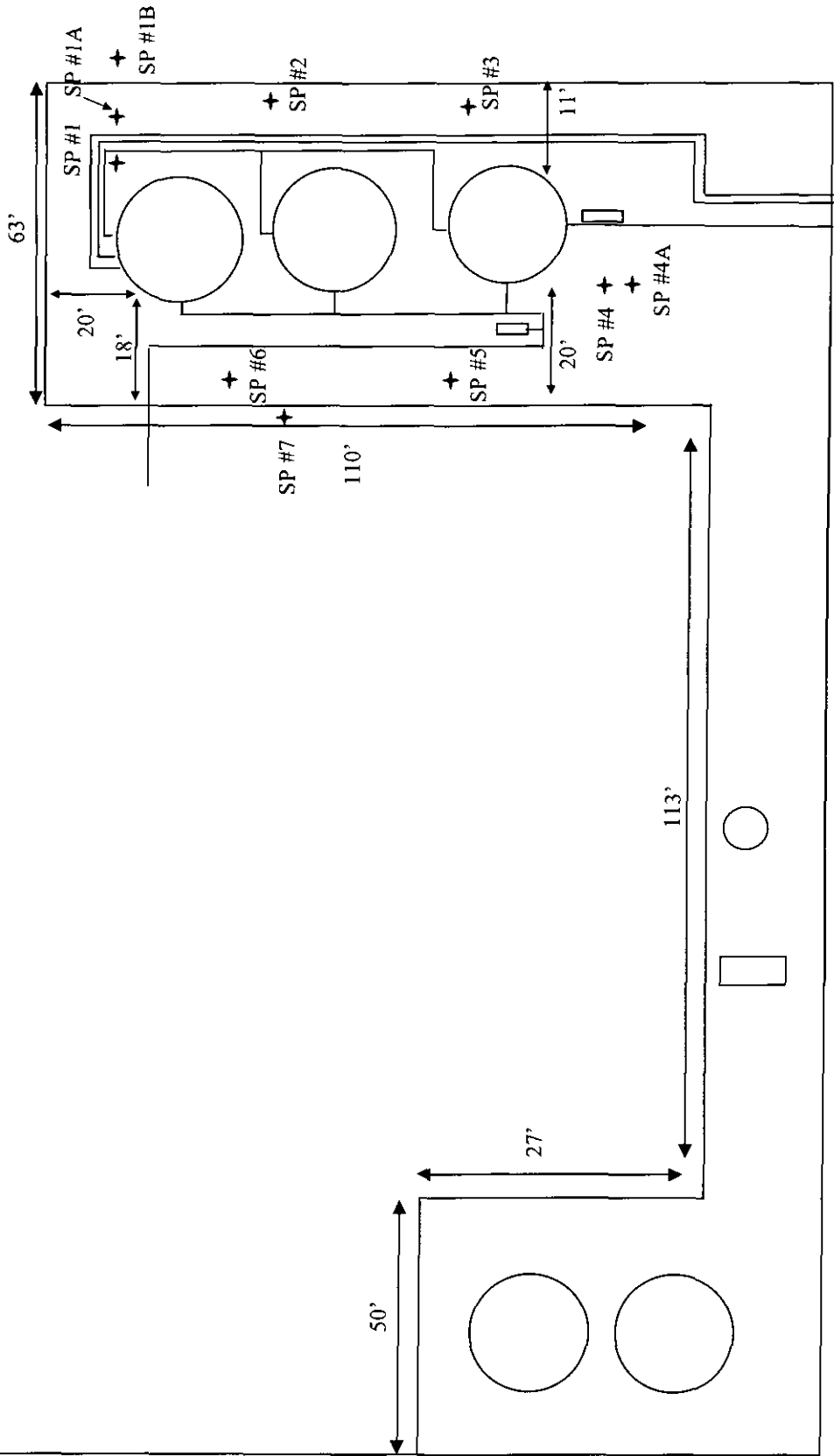
Prepared for:
COG Operating LLC
Midland, Texas

Prepared by:
BBC International, Inc.

CONCHO
BIG GEORGE STATE #3



Road



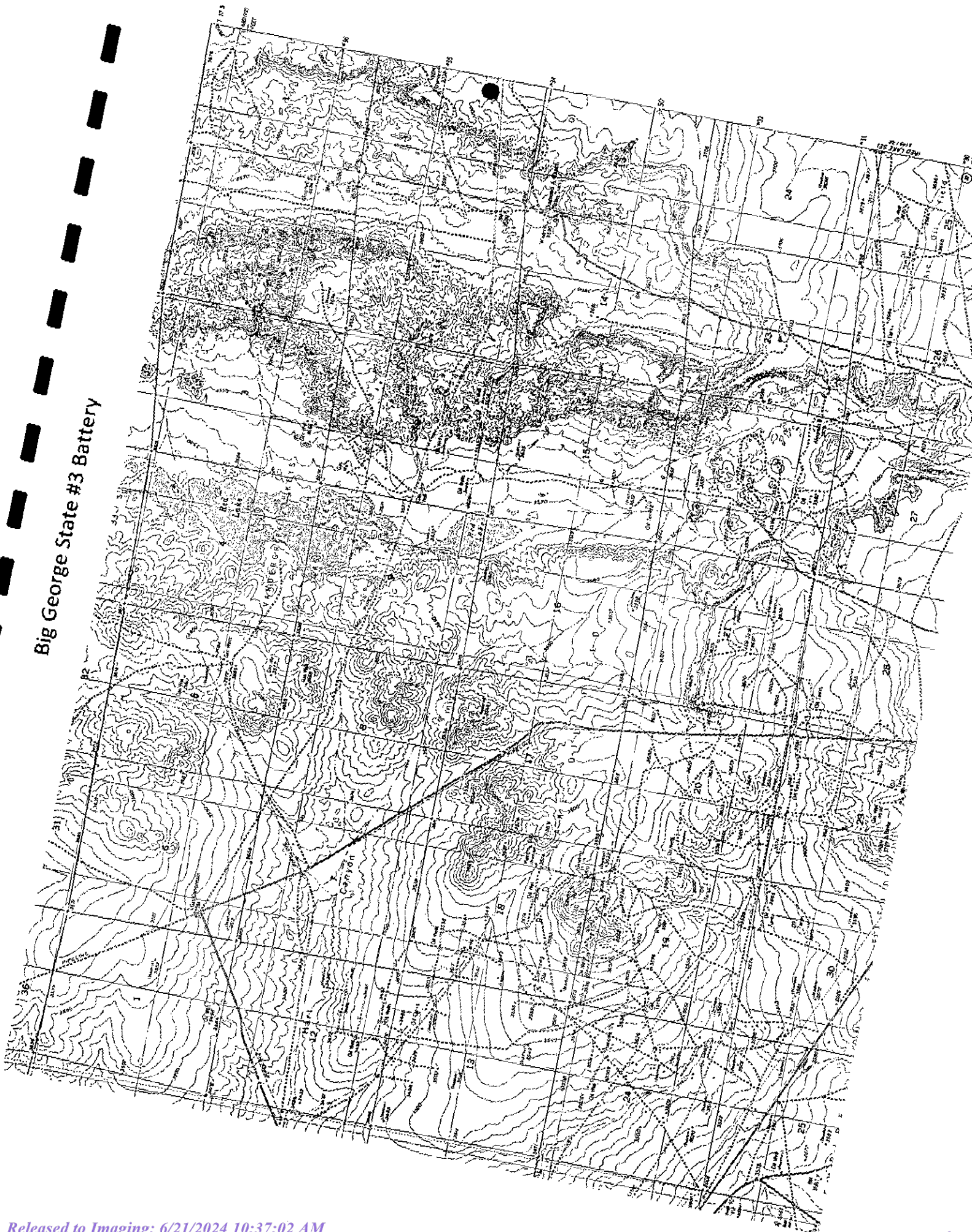
Sample Point Distance from Tanks

- SP#1 - 5'
- SP#2 - 8'
- SP#3 - 7'
- SP#4 - 10'
- SP#5 - 14'
- SP#6 - 15'

BBC INTERNATIONAL, INC.	
CONCHO BIG GEORGE STATE #3	
Date: 8-16-11	Drawn By: JG
Disk:	Sheet 1 of 1 Sheets
Scale: Not to Scale	File Name



Big George State #3 Battery



BBC INTERNATIONAL

Groundwater Plot

Oil/Gas Well Name: Big George State #3 Battery

County: Eddy UL J Sec 12 T 17S R 28E

Trend Map: 50'-75'

R28E

R29E

None

2

1

6

T17S

T17S

11

12

7



T17S

T17S

14

13

18

R28E

R29E

*Location

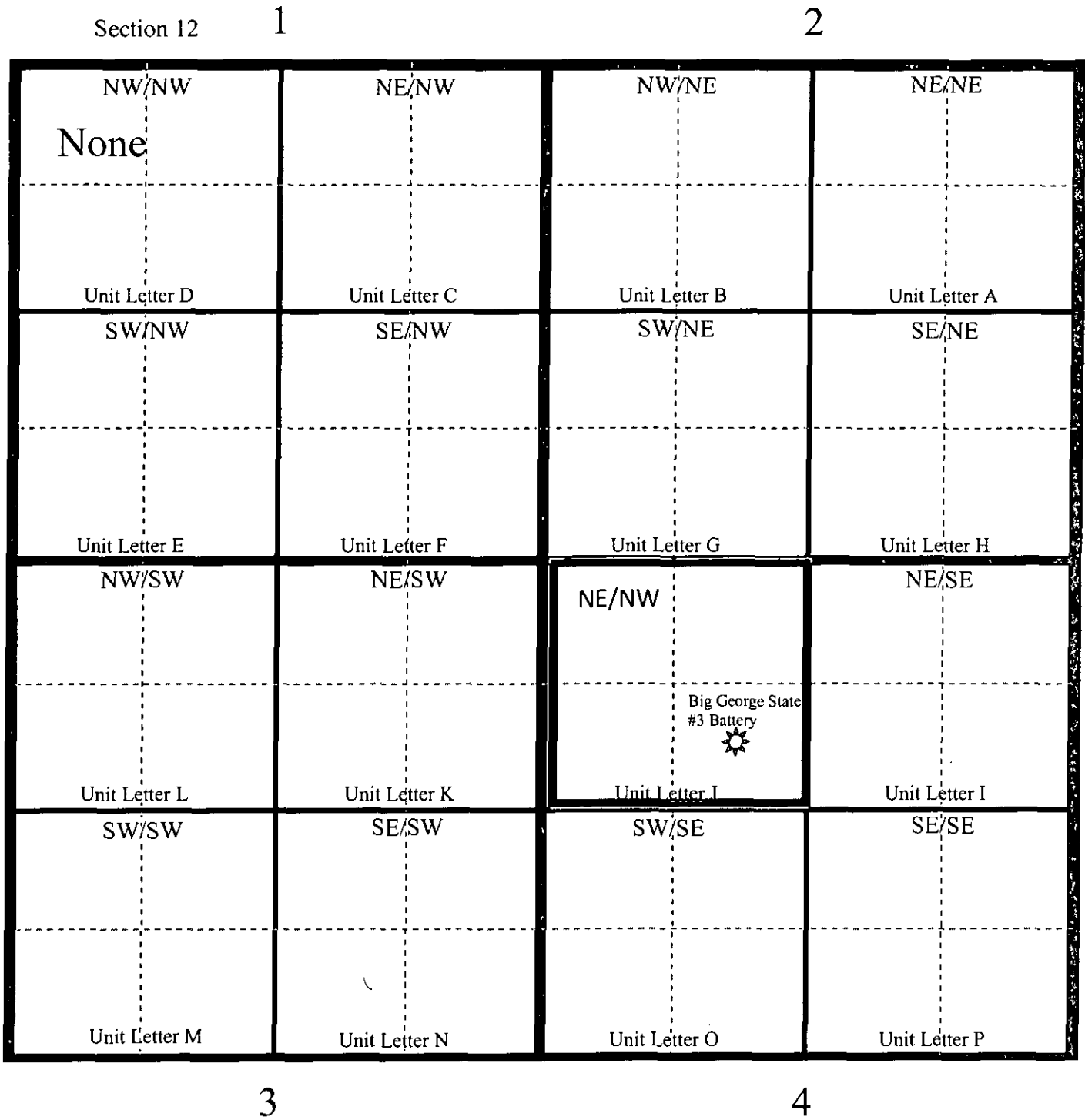
● OCD

● USGS

● SEO

● All Databases

Section Quarters



**Big George State #3
Battery**

UL J
Sec 12
T 17 S
R 28 E

- ☼ Location
- OCD
- USGS
- SEO
- All

APPENDIX II

Laboratory Analytical Results *September 2011*

Big George State #3 Battery (07/27/2011 and 03/12/2012)

Unit J, Section 12, Township 17 South, Range 28 East
Eddy County, NM
GPS: N 32 50.869 W 104 07.595

Prepared for:
COG Operating LLC
Midland, Texas

Prepared by:
BBC International, Inc.

Laboratory Analytical Results Summary
COG, Big George State #3

	Sample	SP1A @ 2'	SP1A @ 4'	SP1A @ 7'	SP1A @ 12'	SP1A @ 17'
Analyte	Date	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B	14200	2560	2920	11400	4720

	Sample	SP1B @ 1'	SP1B @ 4'	SP1B @ 7'
Analyte	Date	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B	6480	8260	6720

	Sample	SP4A @ 7'	SP4A @ 12'	SP4A @ 17'
Analyte	Date	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B	6800	3520	2120

	Sample	SP7 @ 1'	SP7 @ 3'	SP7 @ 6'
Analyte	Date	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B	1800	1500	368

	Sample	SP1 @ 1'	SP1 @ 4'	SP1 @ 8'
Analyte	Date	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B	5280	13600	9500

	Sample	SP2 @ 1'	SP2 @ 4'
Analyte	Date	mg/Kg	mg/Kg
Chloride	SM4500CI-B	20000	1260

	Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'
Analyte	Date	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B	9400	8600	272

	Sample	SP4 @ 1'	SP4 @ 4'	SP4 @ 6'
Analyte	Date	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B	3680	10200	4720

	Sample	SP5 @ 1'	SP5 @ 3'	SP5 @ 7'
Analyte	Date	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B	5600	12800	1960

	Sample	SP6 @ 1'	SP6 @ 3'
Analyte	Date	mg/Kg	mg/Kg
Chloride	SM4500CI-B	4240	2200



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

September 02, 2011

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BIG GEORGE STATE #3

Enclosed are the results of analyses for samples received by the laboratory on 08/31/11 10:15.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received: 08/31/2011
 Reported: 09/02/2011
 Project Name: BIG GEORGE STATE #3
 Project Number: NONE GIVEN
 Project Location: COG

Sampling Date: 08/15/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H101850-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	09/01/2011	ND	448	112	400	0.00	

Sample ID: SP 1 @ 4' (H101850-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13600	16.0	09/01/2011	ND	448	112	400	0.00	

Sample ID: SP 1 @ 8' (H101850-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9500	16.0	09/01/2011	ND	448	112	400	0.00	

Sample ID: SP 2 @ 1' (H101850-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20000	16.0	09/01/2011	ND	448	112	400	0.00	

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*=Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received: 08/31/2011
 Reported: 09/02/2011
 Project Name: BIG GEORGE STATE #3
 Project Number: NONE GIVEN
 Project Location: COG

Sampling Date: 08/15/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 4' (H101850-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	09/01/2011	ND	448	112	400	0.00	

Sample ID: SP 3 @ 1' (H101850-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9400	16.0	09/01/2011	ND	448	112	400	0.00	

Sample ID: SP 3 @ 3' (H101850-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8600	16.0	09/01/2011	ND	448	112	400	0.00	

Sample ID: SP 3 @ 5' (H101850-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/01/2011	ND	448	112	400	0.00	

Sample ID: SP 4 @ 1' (H101850-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	09/01/2011	ND	448	112	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received: 08/31/2011
Reported: 09/02/2011
Project Name: BIG GEORGE STATE #3
Project Number: NONE GIVEN
Project Location: COG

Sampling Date: 08/15/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ 4' (H101850-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10200	16.0	09/01/2011	ND	448	112	400	0.00	

Sample ID: SP 4 @ 6' (H101850-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	09/01/2011	ND	448	112	400	0.00	

Sample ID: SP 5 @ 1' (H101850-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	09/01/2011	ND	448	112	400	0.00	

Sample ID: SP 5 @ 3' (H101850-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	09/01/2011	ND	448	112	400	0.00	

Sample ID: SP 5 @ 7' (H101850-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	09/01/2011	ND	448	112	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	08/31/2011	Sampling Date:	08/16/2011
Reported:	09/02/2011	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	COG		

Sample ID: SP 6 @ 1' (H101850-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4240	16.0	09/01/2011	ND	448	112	400	0.00		

Sample ID: SP 6 @ 3' (H101850-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	09/01/2011	ND	448	112	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- ~ Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- ~ Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

1 of 2

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

BILL TO										ANALYSIS REQUEST														
Company Name: BBC International, Inc.										P.O. #:														
Project Manager: Cliff Brunson										Company:														
Address: P.O. Box 805										Attn:														
City: Hobbs										State: NM Zip: 88241														
Phone #: 575-397-6388										Fax #: 575-397-0397														
Project #:										Address: SAME														
Project Name: Big George State #3										City:														
Project Location:										State: Zip:														
Sampler Name: JUDAN WOODFIN										Phone #:														
FOR LAB USE ONLY										Fax #:														
Lab I.D.	Sample I.D.	(G) RAB OR (C) OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	PRESERV	DATE	TIME										
1	SP1641	0	X	X	X	X	X	X	X	X	X	X	8/15/11	9:22										
2	SP1641	0	X	X	X	X	X	X	X	X	X	X	10/0											
3	SP1641	0	X	X	X	X	X	X	X	X	X	X	11/00											
4	SP2241	0	X	X	X	X	X	X	X	X	X	X	11/29											
5	SP2241	0	X	X	X	X	X	X	X	X	X	X	17/04											
6	SP3241	0	X	X	X	X	X	X	X	X	X	X	12/1											
7	SP3241	0	X	X	X	X	X	X	X	X	X	X	14/1											
8	SP3241	0	X	X	X	X	X	X	X	X	X	X	21/6											
9	SP4241	0	X	X	X	X	X	X	X	X	X	X	24/3											
10	SP4241	0	X	X	X	X	X	X	X	X	X	X	24/7											

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Relinquished By: *Jordan Woodfin* Date: 8/22/11 Time: 5:00 PM
 Reinquished By: *CLW* Date: 8/31/11 Time: 10:15 AM
 Delivered By: (Circle One) *CLW* Date: 8/31/11 Time: 10:15 AM
 Sampler - UPS - Bus - Other: *CLW*

Sample Condition: Cool - Intact ☒ Yes ☐ No
 Checked By: *CLW* (Initials)

Phone Result: ☐ Yes ☐ No Add'l Phone #:
 Fax Result: ☐ Yes ☐ No Add'l Fax #:
 REMARKS:
 -20-
 -20-
 -20-

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

[illegible]

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PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

September 28, 2011

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BIG GEORGE STATE #3

Enclosed are the results of analyses for samples received by the laboratory on 09/27/11 10:17.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received: 09/27/2011
 Reported: 09/28/2011
 Project Name: BIG GEORGE STATE #3
 Project Number: NONE GIVEN
 Project Location: LOCO HILLS, NM

Sampling Date: 09/21/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1A @ 2 FT (H102056-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14200	16.0	09/28/2011	ND	416	104	400	3.77	

Sample ID: SP 1A @ 4 FT (H102056-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	09/28/2011	ND	416	104	400	3.77	

Sample ID: SP 1A @ 7 FT (H102056-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	09/28/2011	ND	448	112	400	0.00	

Sample ID: SP 1A @ 12 FT (H102056-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11400	16.0	09/28/2011	ND	448	112	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received: 09/27/2011
 Reported: 09/28/2011
 Project Name: BIG GEORGE STATE #3
 Project Number: NONE GIVEN
 Project Location: LOCO HILLS, NM

Sampling Date: 09/21/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1A @ 17 FT (H102056-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	09/28/2011	ND	448	112	400	0.00	

Sample ID: SP 1B @ 1 FT (H102056-06)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6480	16.0	09/28/2011	ND	448	112	400	0.00	

Sample ID: SP 1B @ 4 FT (H102056-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8260	16.0	09/28/2011	ND	448	112	400	0.00		

Sample ID: SP 1B @ 7 FT (H102056-08)

Chloride, 5M4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6720	16.0	09/28/2011	ND	448	112	400	0.00	

Sample ID: SP 4A @ 7 FT (H102056-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	09/28/2011	ND	448	112	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received:	09/27/2011	Sampling Date:	09/21/2011
Reported:	09/28/2011	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 4A @ 12 FT (H102056-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	09/28/2011	ND	448	112	400	0.00	

Sample ID: SP 4A @ 17 FT (H102056-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	09/28/2011	ND	448	112	400	0.00	

Sample ID: SP 7 @ 1 FT (H102056-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	09/28/2011	ND	448	112	400	0.00	

Sample ID: SP 7 @ 3 FT (H102056-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	09/28/2011	ND	448	112	400	0.00	

Sample ID: SP 7 @ 6 FT (H102056-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	09/28/2011	ND	448	112	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, reading "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

BILL TO				ANALYSIS REQUEST											
Company Name: BBC International, Inc.															
Project Manager: Cliff Brunson															
Address: P.O. Box 805															
City: Hobbs															
State: NM Zip: 88241															
Phone #: 575-397-6388															
Fax #: 575-397-0397															
Project #:															
Project Name: Big George State #3															
Project Location: Cimarron NM															
Sampler Name: Jordan Woodfin															
P.O. #:															
Company:															
Attn:															
Address:															
City:															
State:															
Phone #:															
Fax #:															
Matrix				DATE TIME											
WASTEWATER															
GROUNDWATER															
SLUDGE															
OIL															
SOIL															
ACID/BASE															
ICE/COOL															
OTHER:															
PRESERV															
SAMPLING															
Lab I.D.															
Sample I.D.															
1 SP1A @ 2 FT				5-21-11 9:00											
2 SP1A @ 4 FT				" " 9:21											
3 SP1A @ 7 FT				" " 9:41											
4 SP1A @ 12 FT				" " 10:35											
5 SP1A @ 17 FT				" " 11:52											
6 SP1B @ 1 FT				" " 12:31											
7 SP1B @ 4 FT				" " 10:02											
8 SP1B @ 7 FT				" " 1:35											
9 SP4A @ 7 FT				" " 2:59											
10 SP4A @ 12 FT				" " 3:46											
FOR USE ONLY															
Relinquished By: Jordan Woodfin				Date: 6/19/11 Received By: [Signature]											
Relinquished By: [Signature]				Date: [Blank] Received By: [Blank]											
Delivered By: (Circle One)				Sample Condition: Cool Intact											
Sampler - UPS - Bus - Other:				Yes [X] No []											
CHECKED BY: [Signature]				INITIALS											
REMARKS: Email All															
Phone Result: [X] Yes [] No				Add'l Phone #:											
Fax Result: [X] Yes [] No				Add'l Fax #:											

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26

CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-6476

APPENDIX III

C-141
July 2012

Big George State #3 Battery (07/27/2011 and 03/12/2012)

Unit J, Section 12, Township 17 South, Range 28 East
Eddy County, NM
GPS: N 32 50.869 W 104 07.595

Prepared for:
COG Operating LLC
Midland, Texas

Prepared by:
BBC International, Inc.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	COG OPERATING LLC	Contact	Pat Ellis
Address	550 W. Texas, Suite 100, Midland, TX 79701	Telephone No.	432-230-0077
Facility Name	Big George	Facility Type	Tank Battery
Surface Owner State	Mineral Owner	Lease No. (API#) 30-015-28759	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	12	17S	28E					Eddy

Latitude 32 50.869 Longitude 104 07.595

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	50bbls	Volume Recovered	45bbls
Source of Release	Water tank	Date and Hour of Occurrence	07/27/2011	Date and Hour of Discovery	07/27/2011 10:00 a.m.
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher - OCD			
By Whom?	Josh Russo	Date and Hour 07/28/2011 9:35 a.m.			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

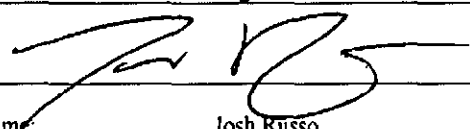
A sudden rush of production caused a tank overflow due to an alarm system failure. The alarm has been repaired.

Describe Area Affected and Cleanup Action Taken.*

Initially 50bbls was released from the tank inside the facility walls of the Big George State Tank Battery. We were able to recover 45bbls with a vacuum truck. The spill area measure roughly 30' x 30' inside the facility walls. All free fluid has been picked up and contaminated gravel has been removed. BBC will sample the spill site area to delineate any possible contamination from the release and we will present a work plan to the NMOCD for approval prior to any significant remediation work.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature: 	Approved by District Supervisor:		
Printed Name: Josh Russo	Approval Date:		
Title: HSE Coordinator	Expiration Date:		Attached <input type="checkbox"/>
E-mail Address: jrusso@conchoresources.com	Conditions of Approval:		
Date: 08/02/2011	Phone: 432-212-2399		

* Attach Additional Sheets If Necessary

1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	COG Operating LLC	Contact	Pat Ellis
Address	550 W. Texas, Suite 100, Midland, TX 79701	Telephone No.	432-230-0077
Facility Name	Big George State Tank Battery	Facility Type	Tank Battery

Surface Owner	State	Mineral Owner		Lease No. (API#)	30-015-28759
---------------	-------	---------------	--	------------------	--------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	12	17S	28E					Eddy County, NM

Latitude N 32 50.869 Longitude W 104 07.595

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	50 bbls	Volume Recovered	45 bbls
Source of Release	Water tank	Date and Hour of Occurrence	07/27/2011	Date and Hour of Discovery	07/27/2011 @ 10:00 a.m.
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher-OCD		
By Whom?	Josh Russo	Date and Hour	07/28/2011 @ 9:35 a.m.		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

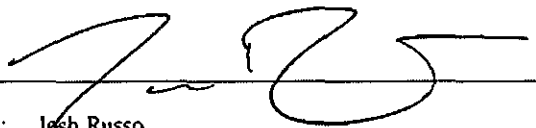
Describe Cause of Problem and Remedial Action Taken.*

A sudden rush of production caused a tank overflow due to an alarm system failure. The alarm has been repaired. Free-standing fluids were recovered via vacuum truck.

Describe Area Affected and Cleanup Action Taken.*

Initially 50 bbls of water were released from the tank inside the facility walls of the Big George State Tank Battery. We were able to recover 45 bbls with a vacuum truck. The spill area measured approximately 30' x 30' inside the facility walls. All free fluid was picked up and the impacted soil has been removed and disposed at a NMOCD-approved facility. Remediation was completed in accordance with a NMOCD approved remediation plan. A clay liner was installed and the site was backfilled.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Josh Russo		Approved by District Supervisor:	
Title: HSE Coordinator	Approval Date:	Expiration Date:	
E-mail Address: jrusso@conchoresources.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 07-26-2012	Phone: 432-212-2399		

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	COG OPERATING LLC	Contact	Pat Ellis
Address	550 W. Texas, Suite 100, Midland, TX 79701	Telephone No.	432-230-0077
Facility Name	Big George State Tank Battery	Facility Type	Tank Battery

Surface Owner	State	Mineral Owner	Lease No. (API#) 30-015-26340
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	12	17S	28E					Eddy

Latitude 32 50.852 Longitude 104 07.600

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	8bbls	Volume Recovered	7bbls
Source of Release	1/4" nipple on discharge side of water pump	Date and Hour of Occurrence	03/12/2012	Date and Hour of Discovery	03/12/2012 6:30 a.m.
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

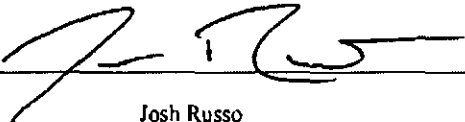
Describe Cause of Problem and Remedial Action Taken.*

The 1/4" nipple on the discharge side of the water pump failed do to vibration and corrosion. The 1/4" nipple has been replaced.

Describe Area Affected and Cleanup Action Taken.*

Initially 8bbls of produced water were released from the water pump and we were able to recover 7bbls with a vacuum truck. The spill area measured roughly 10' x 60' inside the tank battery with an area of overspray measuring roughly 30' x 50' on location outside of the tank battery. All free fluids have been picked up and the overspray area has been scraped with a backhoe. This spill area is identical to the spill from 07/27/2011. BBC will handle the remediation and closure of this release as well as the 07/27/2011 spill event.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:				OIL CONSERVATION DIVISION	
Printed Name:	Josh Russo			Approved by District Supervisor:	
Title:	HSE Coordinator			Approval Date:	Expiration Date:
E-mail Address:	jrusso@conchoresources.com			Conditions of Approval:	Attached <input type="checkbox"/>
Date:	03/26/2012		Phone:	432-212-2399	

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	COG Operating LLC	Contact	Pat Ellis
Address	550 W. Texas, Suite 100, Midland, TX 79701	Telephone No.	432-230-0077
Facility Name	Big George State Tank Battery	Facility Type	Tank Battery

Surface Owner	State	Mineral Owner		Lease No. (API#)	30-015-26340
---------------	-------	---------------	--	------------------	--------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	12	17S	28E					Eddy County, NM

Latitude N 32 50.852 Longitude W 104 07.600

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	8 bbls	Volume Recovered	7 bbls
Source of Release	1/4" nipple on discharge side of water pump	Date and Hour of Occurrence	03/12/2012	Date and Hour of Discovery	03/12/2012@ 6:30 a.m.
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Required				
By Whom?	If YES, To Whom?				
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
If YES, Volume Impacting the Watercourse.					

If a Watercourse was Impacted, Describe Fully.*

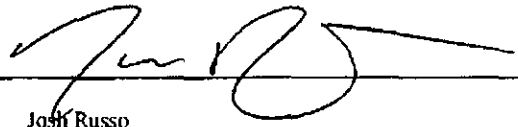
Describe Cause of Problem and Remedial Action Taken.*

The 1/4" nipple on the discharge side of the water pump failed due to vibration and corrosion. The 1/4" nipple has been replaced.

Describe Area Affected and Cleanup Action Taken.*

Initially 8 bbls of produced water were released from the water pump and we were able to recover 7 bbls with a vacuum truck. The spill area measured roughly 10' x 60' inside the tank battery with an area of overspray measuring roughly 30' x 50' on location outside of the tank battery. All free liquids were picked up and the overspray area was scraped with a backhoe. The spill area was identical to the spill from 07/27/2011. The NMOCD agreed to allow the approved remediation plan for the spill of 07/27/2011 to handle this spill as well. The impacted soil was removed, a clay liner installed, and the site backfilled.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Josh Russo	Approved by District Supervisor:	
Title: HSE Coordinator	Approval Date:	Expiration Date:
E-mail Address: jrusso@conchoresources.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 07/26/2012 Phone: 432-212-2399		

* Attach Additional Sheets If Necessary

Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Thursday, August 16, 2012 10:42 AM
To: Kathy Purvis
Cc: cbrunson@bbcinternational.com
Subject: RE: Final C-141s for COG, Big George State Tank Battery

Form C-141's received.

Thank you,

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Kathy Purvis [<mailto:kathy@bbcinternational.com>]
Sent: Thursday, August 16, 2012 10:22 AM
To: Bratcher, Mike, EMNRD
Cc: cbrunson@bbcinternational.com
Subject: Final C-141s for COG, Big George State Tank Battery
Importance: High

The final C-141s for the two leaks at the Big George State Tank Battery are attached. Please respond via email upon receipt.

Kathy Purvis
BBC International, Inc.
1324 W. Marland
Hobbs, NM 88240
Phone: (575) 397-6388
Fax: (575) 397-0397
Email: kathy@bbcinternational.com

APPENDIX IV

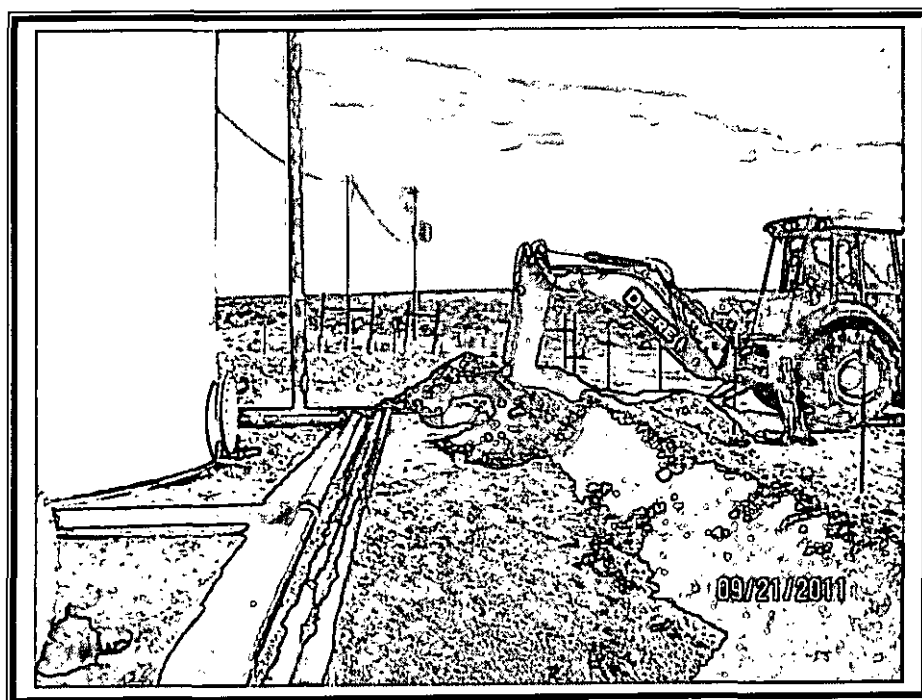
Pictures of Pit Remnants *September 2011*

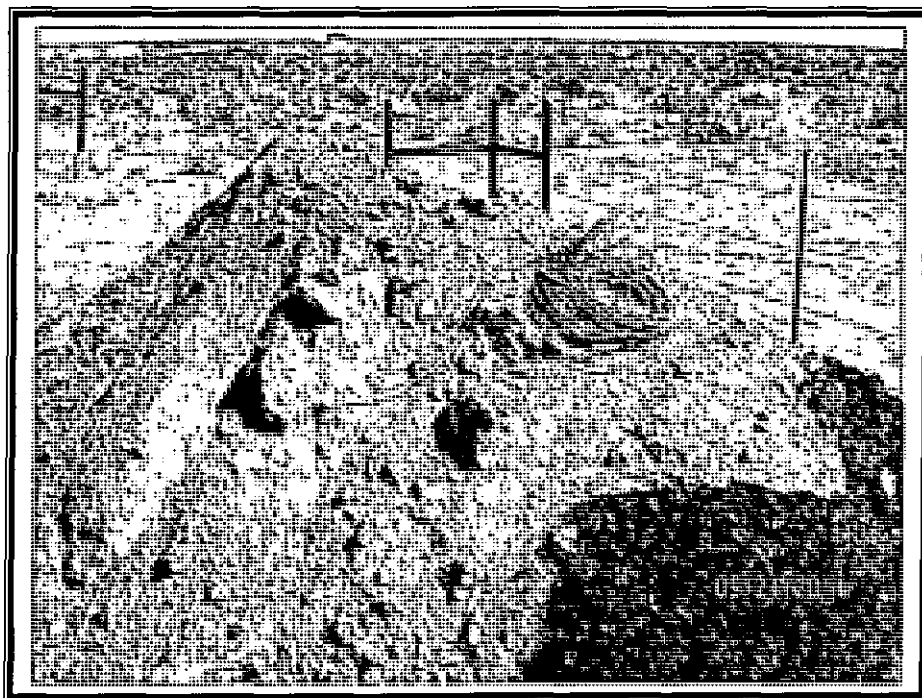
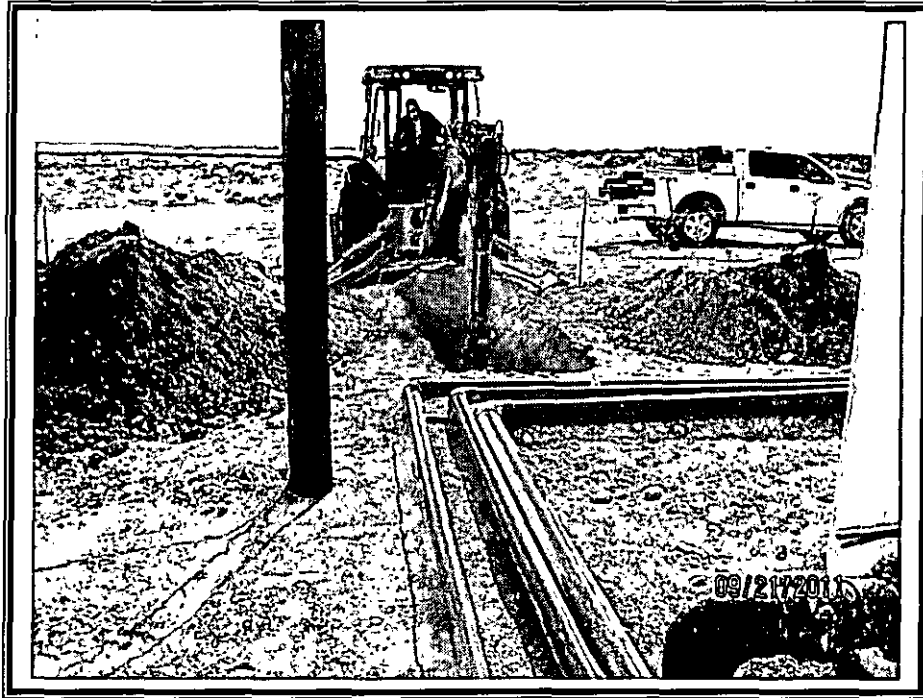
Big George State #3 Battery (07/27/2011 and 03/12/2012)

Unit J, Section 12, Township 17 South, Range 28 East
Eddy County, NM
GPS: N 32 50.869 W 104 07.595

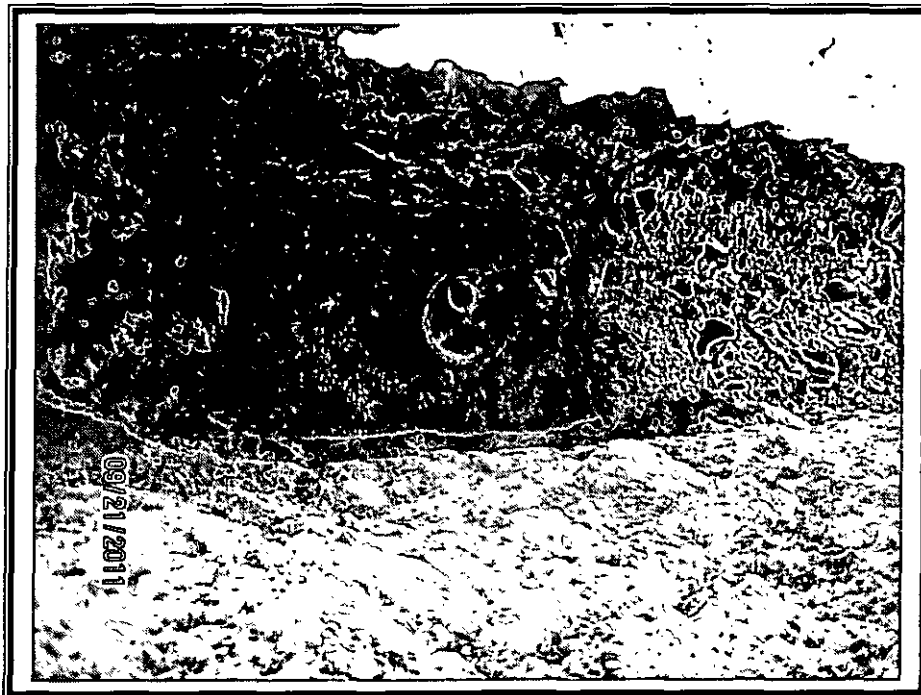
Prepared for:
COG Operating LLC
Midland, Texas

Prepared by:
BBC International, Inc.









APPENDIX V

Pictures of Remediation Activities

July 2012

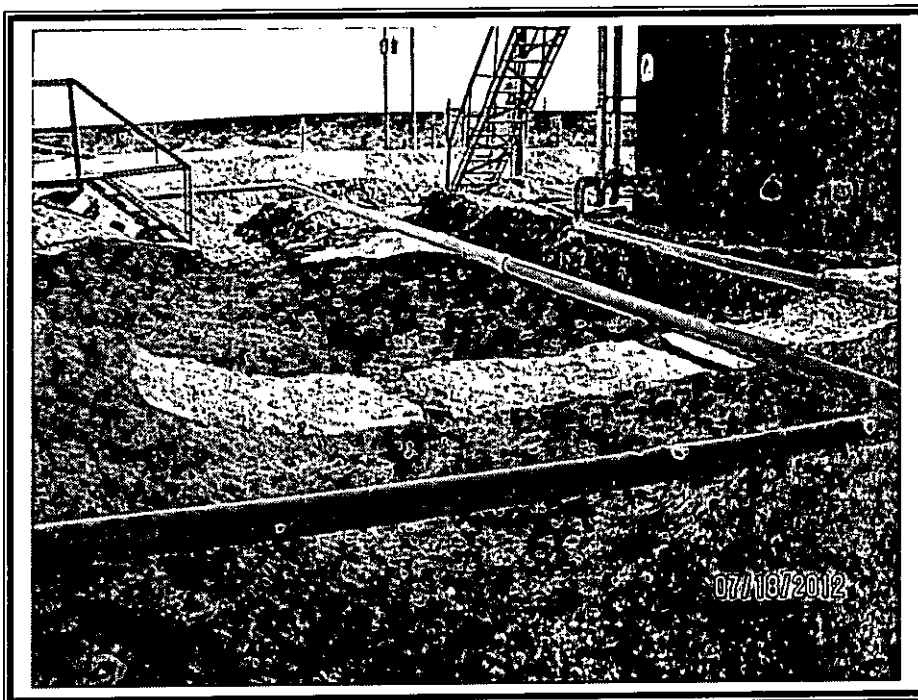
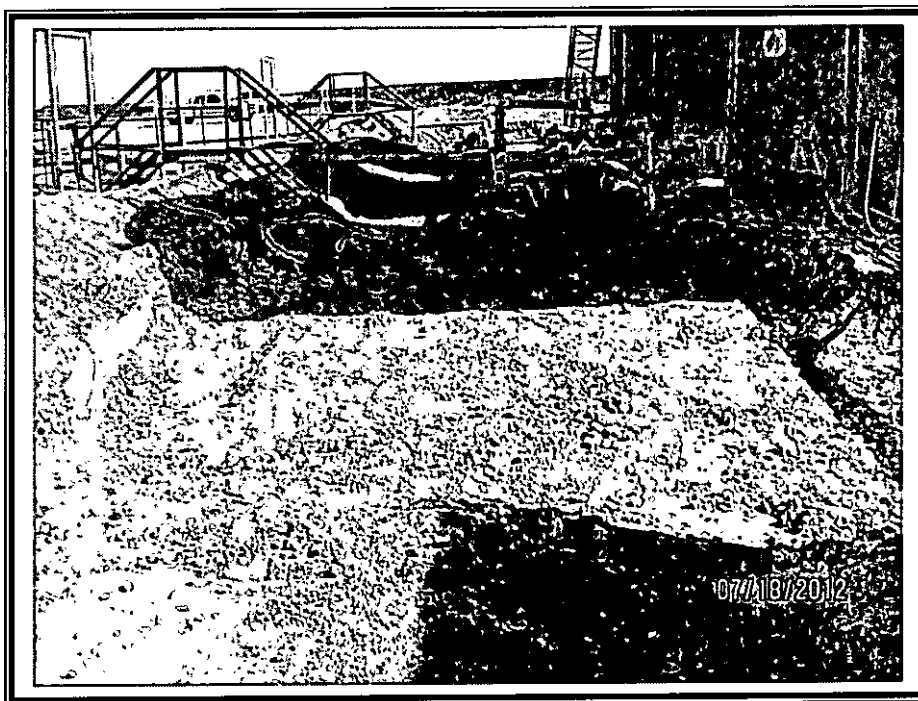
Big George State #3 Battery (07/27/2011 and 03/12/2012)

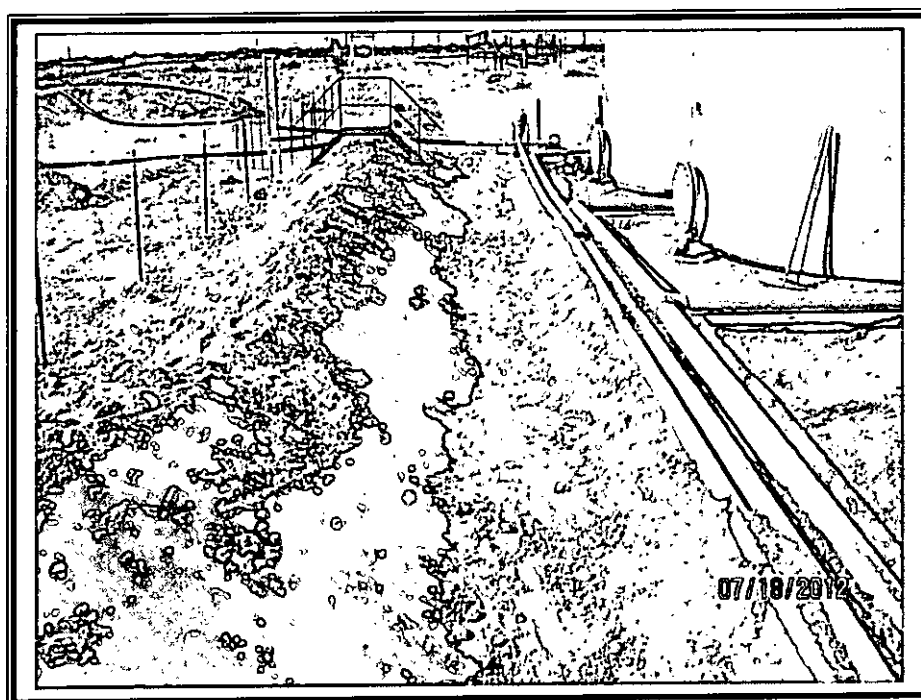
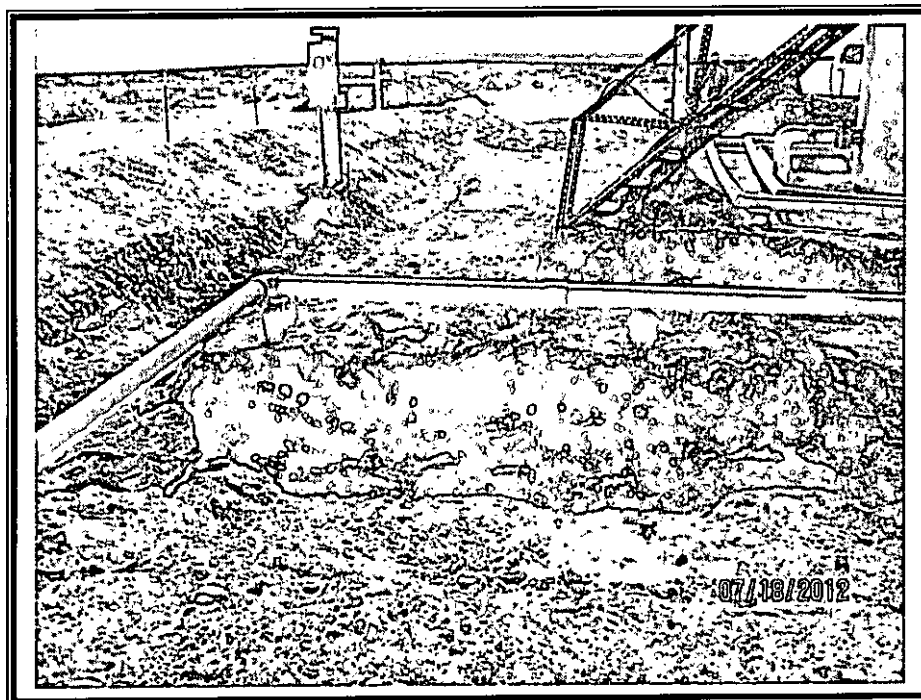
Unit J, Section 12, Township 17 South, Range 28 East
Eddy County, NM
GPS: N 32 50.869 W 104 07.595

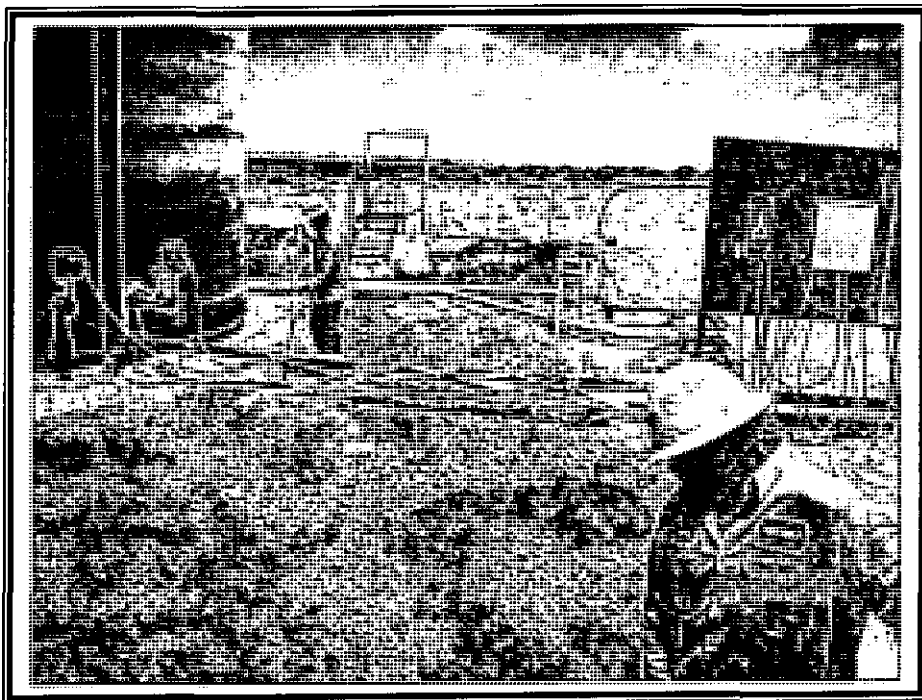
Prepared for:
COG Operating LLC
Midland, Texas

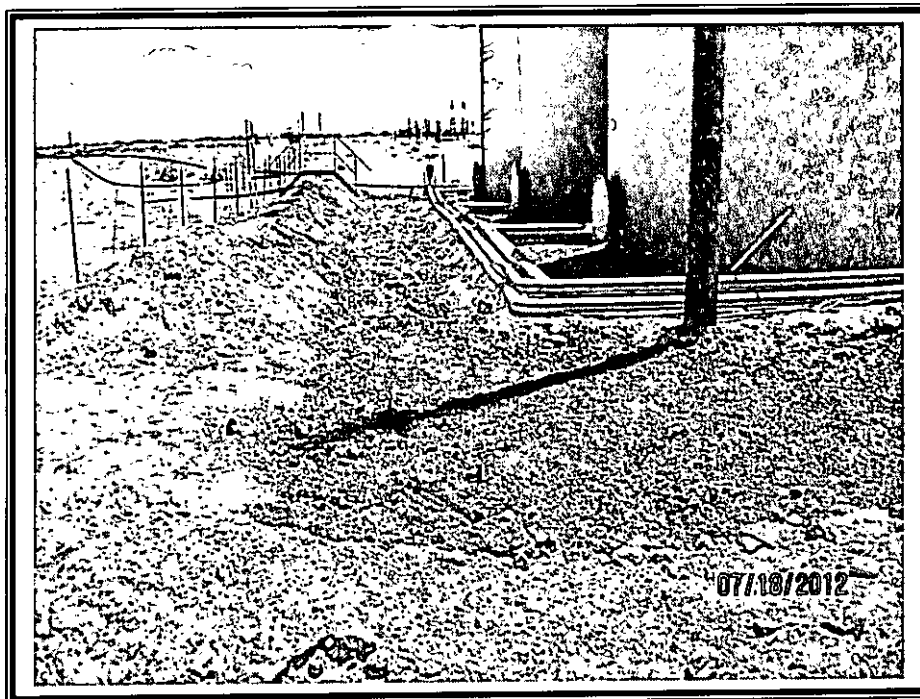
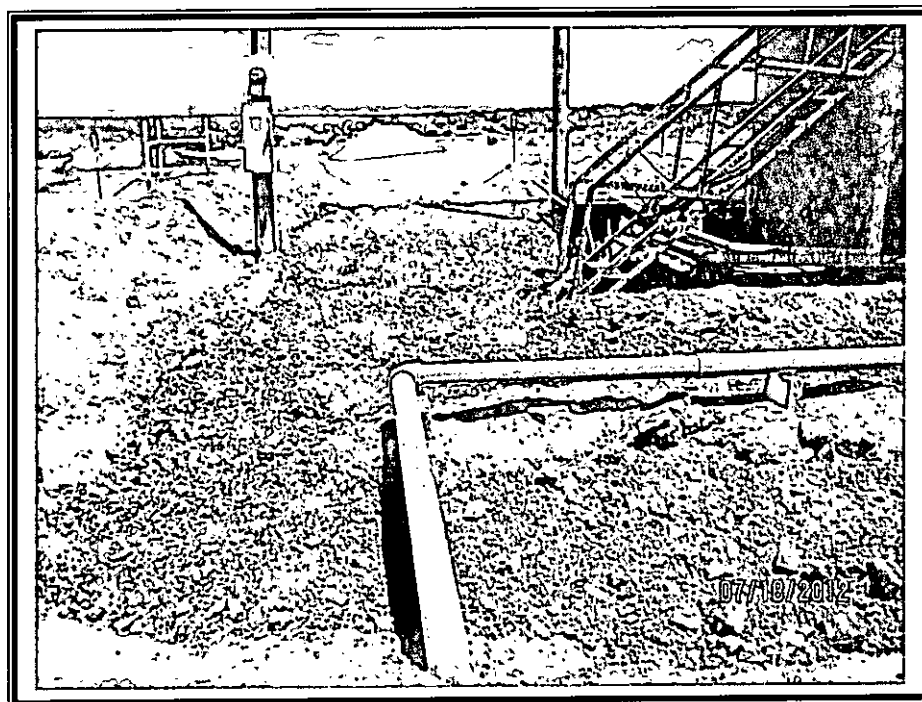
Prepared by:
BBC International, Inc.

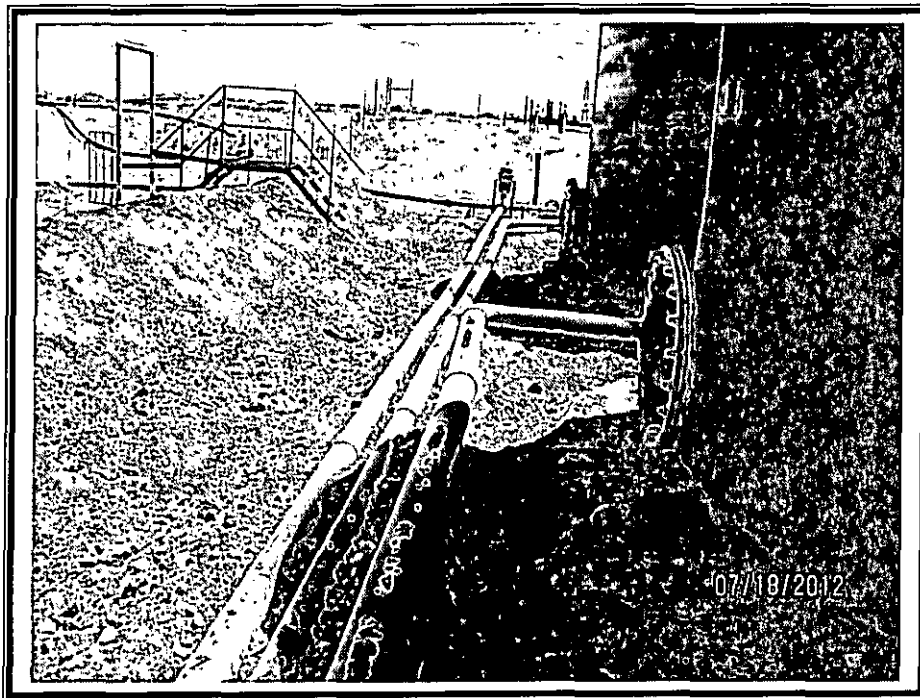
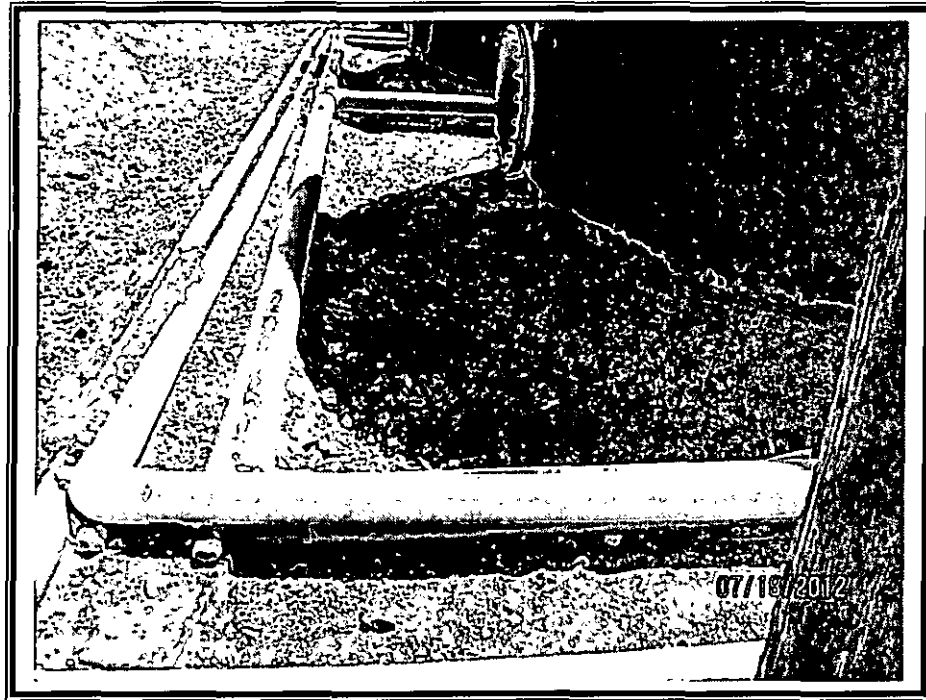


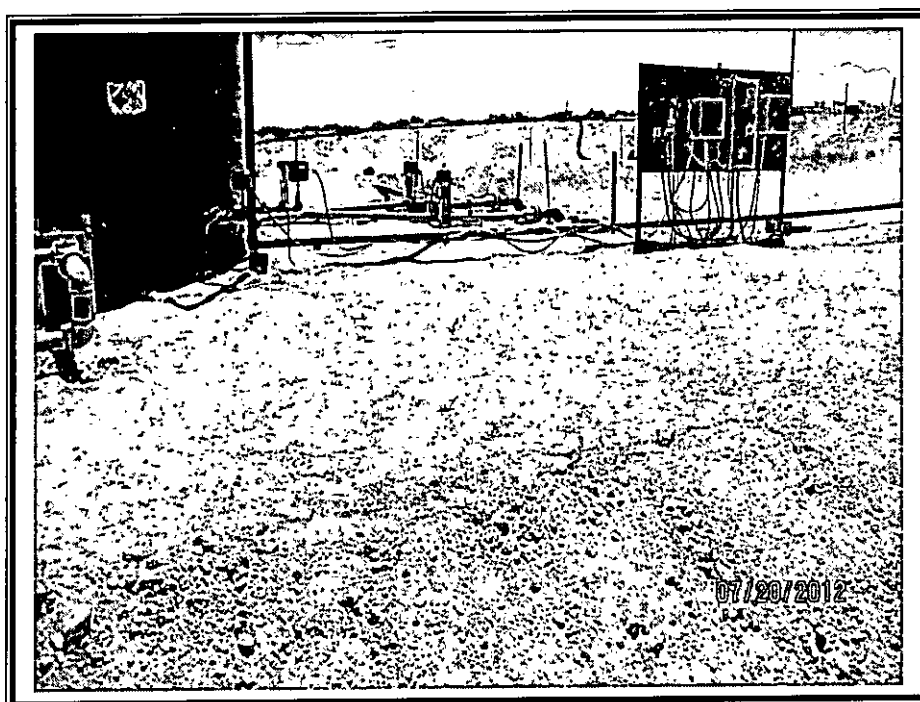
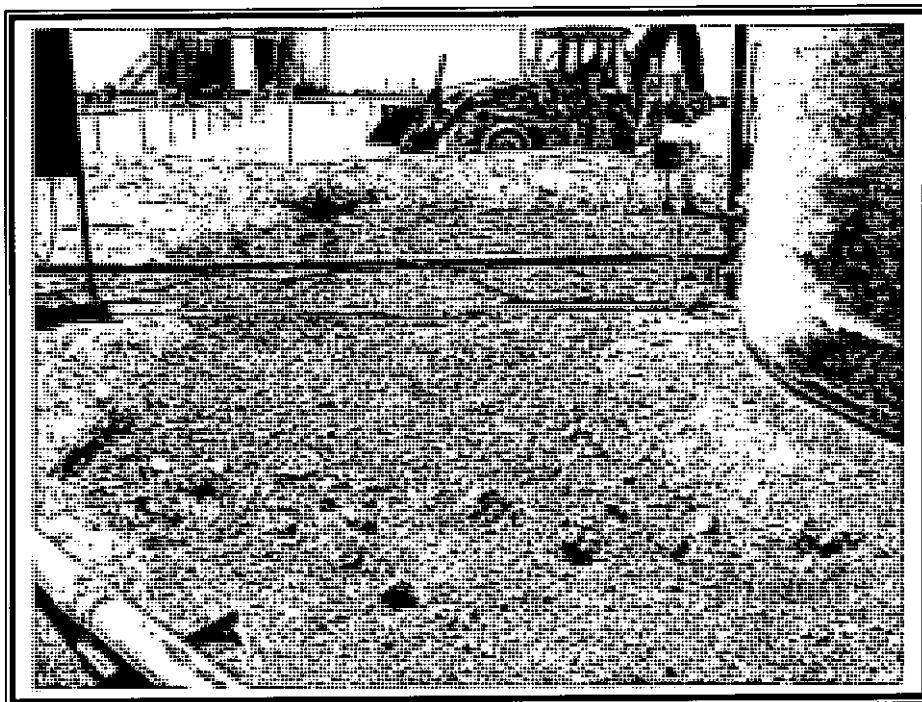


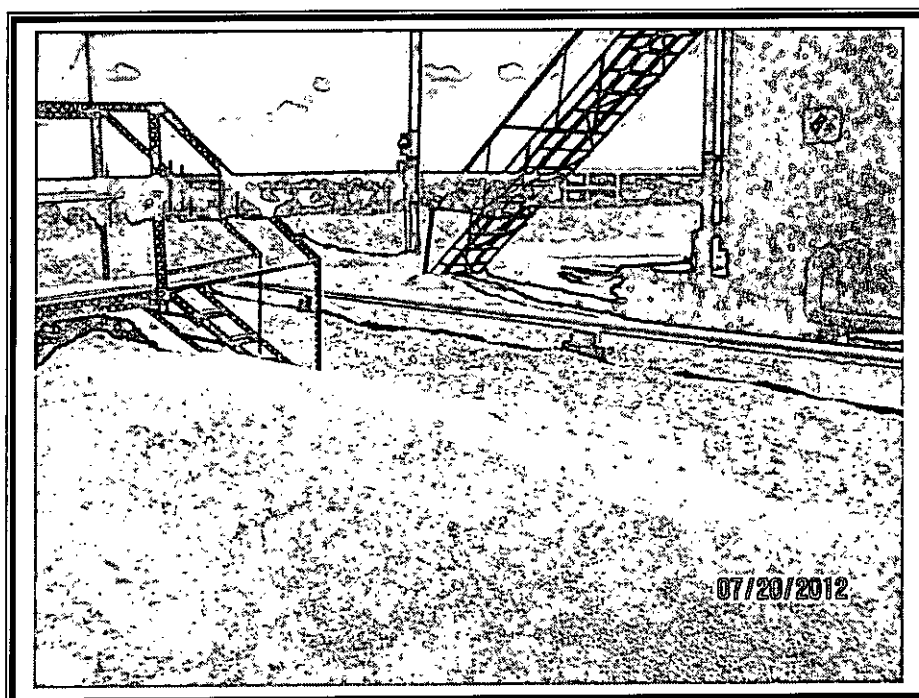
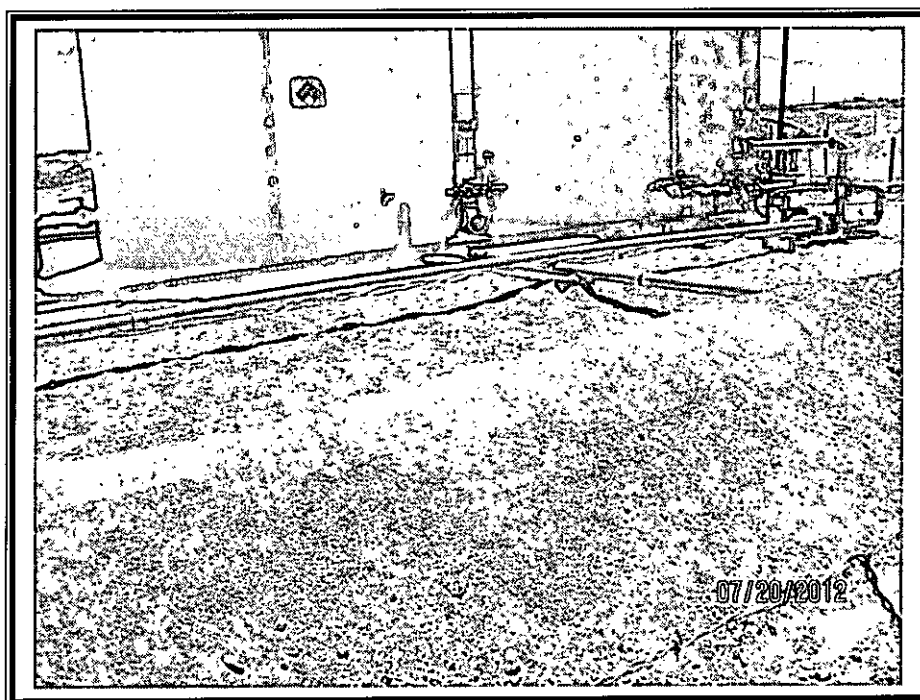


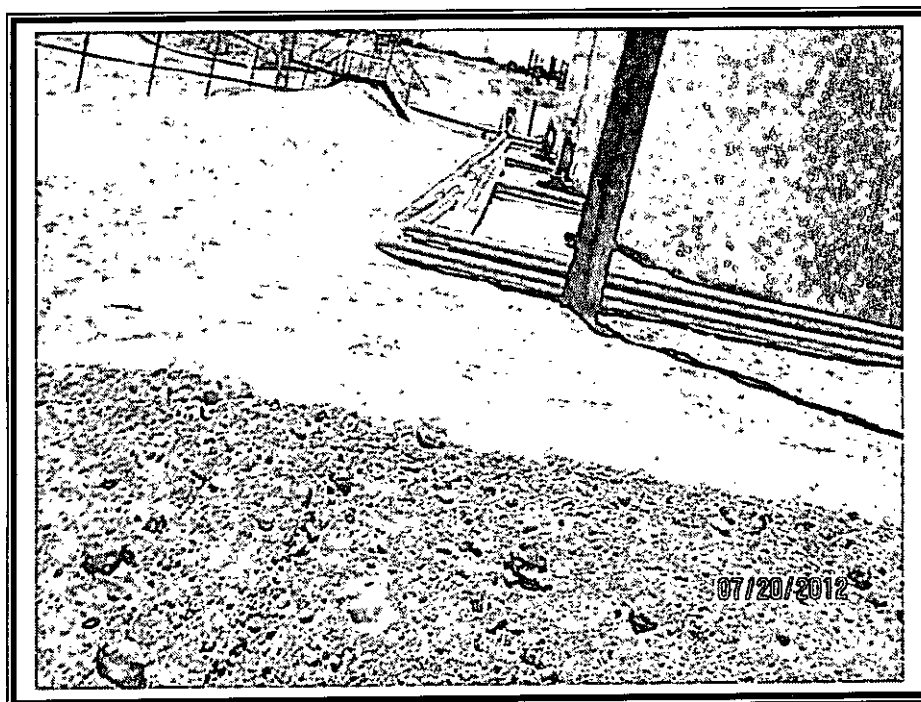
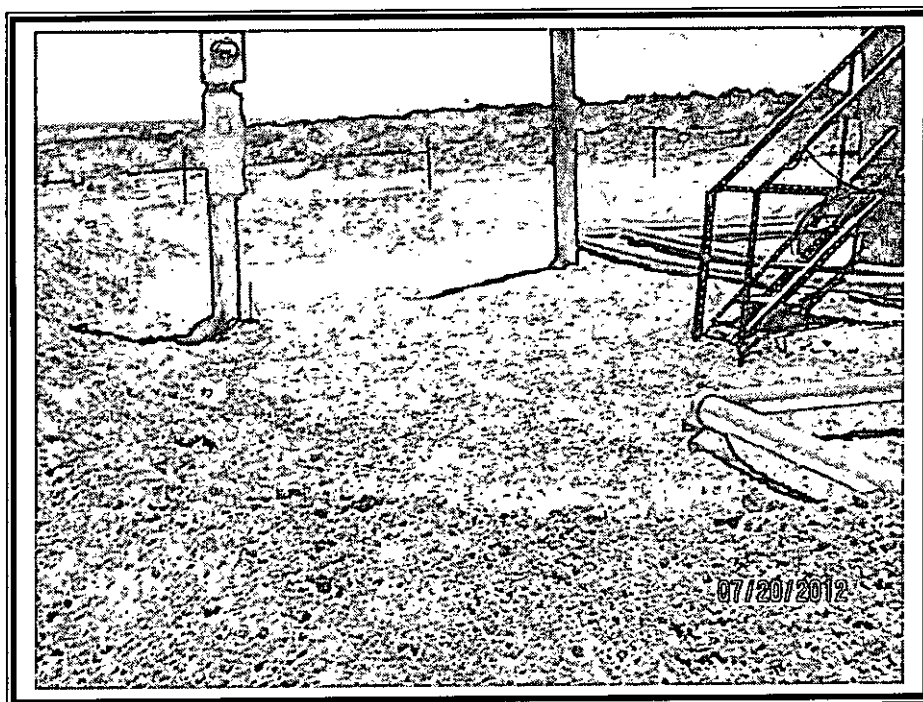


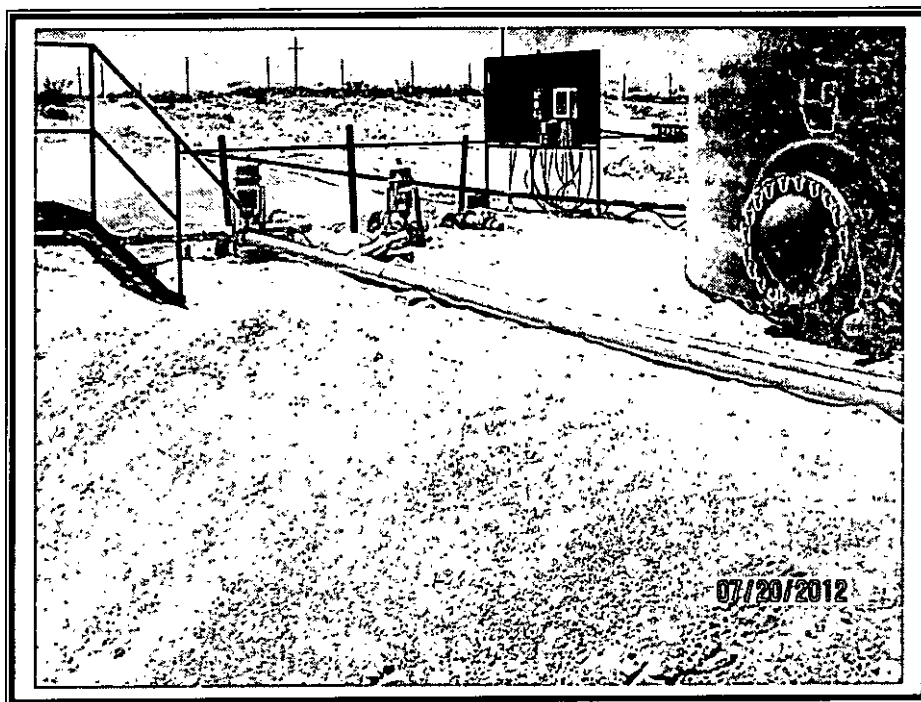












APPENDIX C

Regulatory Correspondence

Amanda,

As indicated in previous communication, the following is a listing of District II Remediation Permits (2-RP) that are being deferred by the Oil Conservation Division (OCD) based on available information. Generally speaking, these sites will be indicated as deferred until Plugging & Abandonment (P&A) activities.

If there are specific questions please do not hesitate to contact the OCD.

Thank you for your time and effort.

DEFERRED RP's

1025, 1116, 1077, 1002, 1084, 1095, 854, 1079, and 1164.

Sincerely,

Bradford Billings

Poole, Nicholas

From: McMillan, Michael A. <mmcmillan@slo.state.nm.us>
Sent: Friday, December 2, 2022 12:43 PM
To: Sarah Chapman
Cc: Crosby, Faith
Subject: Spur Energy Partners LLC, Big George State #3, API 30-015-28759, SW-199 (NMSLO) Update on battery 20221202

Sarah:

Has Spur Energy Partners LLC, Big George State #3, API 30-015-28759, SW-199 (NMSLO) began construction of the new battery.

The NMSLO concern is that there are two spills at this SW Easement-possibly where the new battery is being located.

The NMSLO wants to make sure that if in fact the spills were located at the old battery, the spills get remediated before the battery is constructed.

It is confusing when you look at the OCD website to determine the status of the two open spills.
The first one I will bring up is NMBL1122858011/2RP854

If you pull up nMBL1122858011 on the OCD incident Page it shows it as Closure Not Approved.
When you go to 2RP854 on the OCD Administrative Orders, the OCD granted deferral until the well is P&A.

The second one I will bring up is nMBL1209641725/2RP1079

If you pull up MBL1209641725 on the OCD incident Page it shows it as Closure Not Approved.
When you go to 1079 the OCD Administrative Orders, the OCD granted deferral until the well is P&A.

We had e-mailed about this before, but I was unsure of how Spur was proceeding.

Mike

Michael McMillan
Petroleum Specialist
Oil, Gas, and Minerals Division
Water Bureau
505-827-5788
mmcmillan@slo.state.nm.us

***The New Mexico State Land Office will be closed from 12/22/2022 – 12/28/2022. The office will reopen on Thursday 12/29/2022. Happy Holidays!**

CAUTION External Email - Don't click on contents unless you know they are safe

Poole, Nicholas

From: McMillan, Michael A. <mmcmillan@slo.state.nm.us>
Sent: Friday, December 2, 2022 1:42 PM
To: Sarah Chapman
Cc: Crosby, Faith
Subject: Spur Energy Partners LLC, Big George State #3, API 30-015-28759, SW-199 (NMSLO) Update on battery 20221202 Part II

Sarah:

Spur Energy Partners LLC must contact the OCD Environmental Bureau to determine why the closures for the two spills in the first e-mail sent on December 2 2022 have not been approved.
Spur Energy Partners LLC has until December 16, 2022 to notify the NMSLO why the closures have not been approved by the NMSLO.

If there is no response from Spur Energy Partners LLC on the closure issues by December 15, 2022, the SW Easement will not be renewed.

Next, after Faith went through the e-mails between Spur Energy Partners and the NMSLO, and then looked at the OCD Incident Reports, it appears that the new battery is going to be located where spills are located.

The NMSLO absolutely does not want the new battery to be located where the spills are -f the spills have not been properly remediated.

Thanks

Mike

Michael McMillan
Petroleum Specialist
Oil, Gas, and Minerals Division
Water Bureau
505-827-5788
mmcmillan@slo.state.nm.us

***The New Mexico State Land Office will be closed from 12/22/2022 – 12/28/2022. The office will reopen on Thursday 12/29/2022. Happy Holidays!**

CAUTION External Email - Don't click on contents unless you know they are safe

From: [Hall, Brittany, EMNRD](#)
To: [Llull, Christian](#)
Cc: [Poole, Nicholas](#)
Subject: RE: [EXTERNAL] Extension Request 2 - nMLB1122858011 (Big George State #3 Battery) AND nMLB1209641725 (Big George State #3 Battery)
Date: Thursday, March 21, 2024 4:23:06 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

Christian,

The extension requests for nMLB1122858011 (Big George State #3 Battery) AND nMLB1209641725 (Big George State #3 Battery) are approved. The new due date for the two incidents is June 17, 2024. Please be advised that this will be the last extension request for the Site Characterization and Remediation Plans for the two above referenced incident numbers.

Please include a copy of this correspondence in the reports.

Thank you,

Brittany Hall ● Environmental Specialist

Environmental Bureau Projects Group

EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87110

505.517.5333 | Brittany.Hall@emnrd.nm.gov

<http://www.emnrd.nm.gov/ocd/>

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMNRD Website prior to submitting any C-141s. The guidance documents can be found at <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/> or <https://www.emnrd.nm.gov/ocd/ocd-forms/>.

From: Llull, Christian <Christian.Llull@tetrattech.com>

Sent: Thursday, March 21, 2024 11:24 AM

To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>

Cc: Poole, Nicholas <NICHOLAS.POOLE@tetrattech.com>

Subject: [EXTERNAL] Extension Request 2 - nMLB1122858011 (Big George State #3 Battery)

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

Ms. Hall,

On behalf of ConocoPhillips, Tetra Tech is requesting a 90-day extension (until June 17, 2024) to finalize negotiations for the Big George State #3 Battery Release site (**nMLB1122858011**).

The release occurred on July 27, 2011, and the initial C-141 Report Form was received by NMOCD on August 2, 2011. Assorted assessment activities have been conducted at this site. A Revised Work Plan was submitted describing the collected data.

The OCD rejected the proposed Work Plan and provided the following comments:

- *The OCD spoke to a Spur representative and Spur stated that they will not be building in the vicinity of the release location. Per 19.15.29.12 (C)(2) The responsible party shall restore the impacted surface area of a release occurring on a developed well pad, central tank battery, drilling site, compressor site or other exploration, development, production or storage sites to meet the standards of Table I of 19.15.29.12 NMAC or other applicable remediation standards and restore and reclaim the area pursuant to 19.15.29.13 NMAC. As the area of the release is no longer reasonably needed for production operations or for subsequent drilling operations, the site must meet the requirements of 19.15.29.12 NMAC and 19.15.29.13 NMAC.*
- *Horizontal delineation of BH-12 was not completed in the four cardinal directions as instructed in the previous rejection for this incident number, see application ID 191222. Horizontal delineation will need to be completed.*
- *Submit a complete report through the OCD Permitting website by 12/20/2023.*

A 90-day extension for incident ID (nMLB1122858011) was submitted to the NMOCD on December 13, 2023. The Extension was approved on December 15, 2023, for a new due date of March 19, 2024.

ConocoPhillips has delineated the vicinity of BH-12, and has a 2024 Revised Remediation Work Plan Addendum in draft and review.

ConocoPhillips has coordinated with Spur Representatives regarding the Revised Work Plan Addendum and the proposed action, however, negotiations are ongoing regarding the final reclamation of the pad area.

Thus, the extension is required to allow time for official negotiations regarding the 2024 Revised Remediation Work Plan Addendum between COP and Spur.

Once all parties have agreed to a common resolution, the final Report will be submitted to the OCD. Please let me know if you have any questions or concerns.

Thank you in advance.

Christian

Christian Llull, P.G. | Program Manager
Mobile +1 (512) 565-0190 | christian.llull@tetrattech.com

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8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | tetrattech.com

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From: [Braidy Moulder](#)
To: [Poole, Nicholas](#)
Cc: [Katherine Purvis](#)
Subject: RE: [EXTERNAL]AoC 7310 - Big George State #3 Release (nMLB1209641725) - Revised Remediation Work Plan Addendum
Date: Tuesday, June 11, 2024 4:33:05 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)

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Nicholas, I just received word that we will be moving a temporary h-pump onto the Big George pad in the next 2 weeks, and it will be in operation for the next 4 – 6 months. So, the remediation and reclamation will have to be put on hold.

Braidy Moulder
EHS Manager
Spur Energy Partners, LLC.
713-264-2517



From: Braidy Moulder <bmoulder@spurenergy.com>
Sent: Monday, June 10, 2024 12:32 PM
To: Poole, Nicholas <NICHOLAS.POOLE@tetrattech.com>
Subject: RE: [EXTERNAL]AoC 7310 - Big George State #3 Release (nMLB1209641725) - Revised Remediation Work Plan Addendum

Nicholas, this appears to be good.

Braidy Moulder
EHS Manager
Spur Energy Partners, LLC.

713-264-2517



From: Poole, Nicholas <NICHOLAS.POOLE@tetrattech.com>

Sent: Wednesday, June 5, 2024 10:16 AM

To: Braidy Moulder <bmoulder@spurenergy.com>

Subject: FW: [EXTERNAL]AoC 7310 - Big George State #3 Release (nMLB1209641725) - Revised Remediation Work Plan Addendum

Braidy,

Please see attached revised Release Characterization and Remediation Work Plan Addendums for the Big George State #3 coincident Releases (nMLB1209641725 & nMLB1122858011). The word document report are included along with figures.

With your approval and any incorporated comments, on behalf of COP, we will submit the two reports to the OCD.

Nicholas

Nicholas Poole, GIT | Project Manager
Mobile +1 (512) 560-9064 | nicholas.poole@tetrattech.com

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8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | tetrattech.com

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APPENDIX D

Site Characterization Data

212C-MD-02933		TETRA TECH		LOG OF BORING DTW			Page 1 of 1	
Project Name: Big George State #3								
Borehole Location/GPS Coordinate: 32.847981, -104.127026				Surface Elevation: 3714 ft				
Borehole Number:DTW			Borehole Diameter (in.): 6		Date Started: 1/3/2023		Date Finished: 1/3/2023	

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		DEPTH (ft)	REMARKS
												While Drilling	Upon Completion of Drilling		
			ExStik	PID				LL	PI			-- CALICHE (Compacted Pad Material): White to pale brown, dense, slightly moist, with clay-rich sand -- CALICHE (Older Pad Material): White to pale brown, medium dense, dry, with fine grained sand -- CALICHE: White to pale brown, medium dense, dry, with fine grained sand --SM- SAND: White to pale brown, loose, dry, very fine to fine grained, silt-rich, with caliche nodules --SM- SAND: White to pale brown, loose, dry, very fine- to fine grained, with caliche fragments --SM- SAND: Brown, loose, dry, fine grained, with caliche nodules			
5														2	
														3	
														4	
														6	
10															
														14	
15															
														24	
20															
														29	
25															
														34	
30															
														49	
35															
														55	
40															
45															
50															
55															

-- Changes from fine grained gravel to fine to coarse grained gravel Bottom of borehole at 55.0 feet.											
--	--	--	--	--	--	--	--	--	--	--	--

Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input checked="" type="checkbox"/> Split Spoon <input checked="" type="checkbox"/> Shelby <input checked="" type="checkbox"/> Bulk Sample <input checked="" type="checkbox"/> Grab Sample </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> Acetate Liner <input checked="" type="checkbox"/> Vane Shear <input checked="" type="checkbox"/> Discrete Sample <input checked="" type="checkbox"/> Test Pit </div> </div>	Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input checked="" type="checkbox"/> Mud Rotary <input checked="" type="checkbox"/> Continuous Flight Auger <input checked="" type="checkbox"/> Wash Rotary </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> Hand Auger <input checked="" type="checkbox"/> Air Rotary <input checked="" type="checkbox"/> Direct Push <input checked="" type="checkbox"/> Core Barrel </div> </div>	Notes: Surface elevation is an estimated value from Google Earth data.
--	---	---

Logger: Colton Bickerstaff	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling
----------------------------	--------------------------------	-------------------------------



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 Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
RA 12307 POD1	RA	ED		4	2	2	14	17S	28E	580495	3633981	1457	140	58	82

Average Depth to Water: **58 feet**

Minimum Depth: **58 feet**

Maximum Depth: **58 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 581744.8

Northing (Y): 3634731.42

Radius: 2000

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.

12/16/22 1:20 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

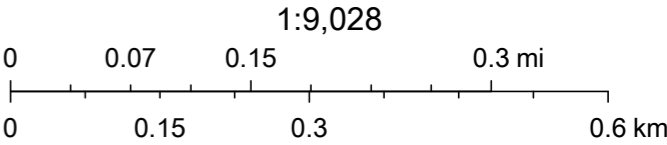
OCD Potential Karst Map



12/16/2022, 2:06:15 PM

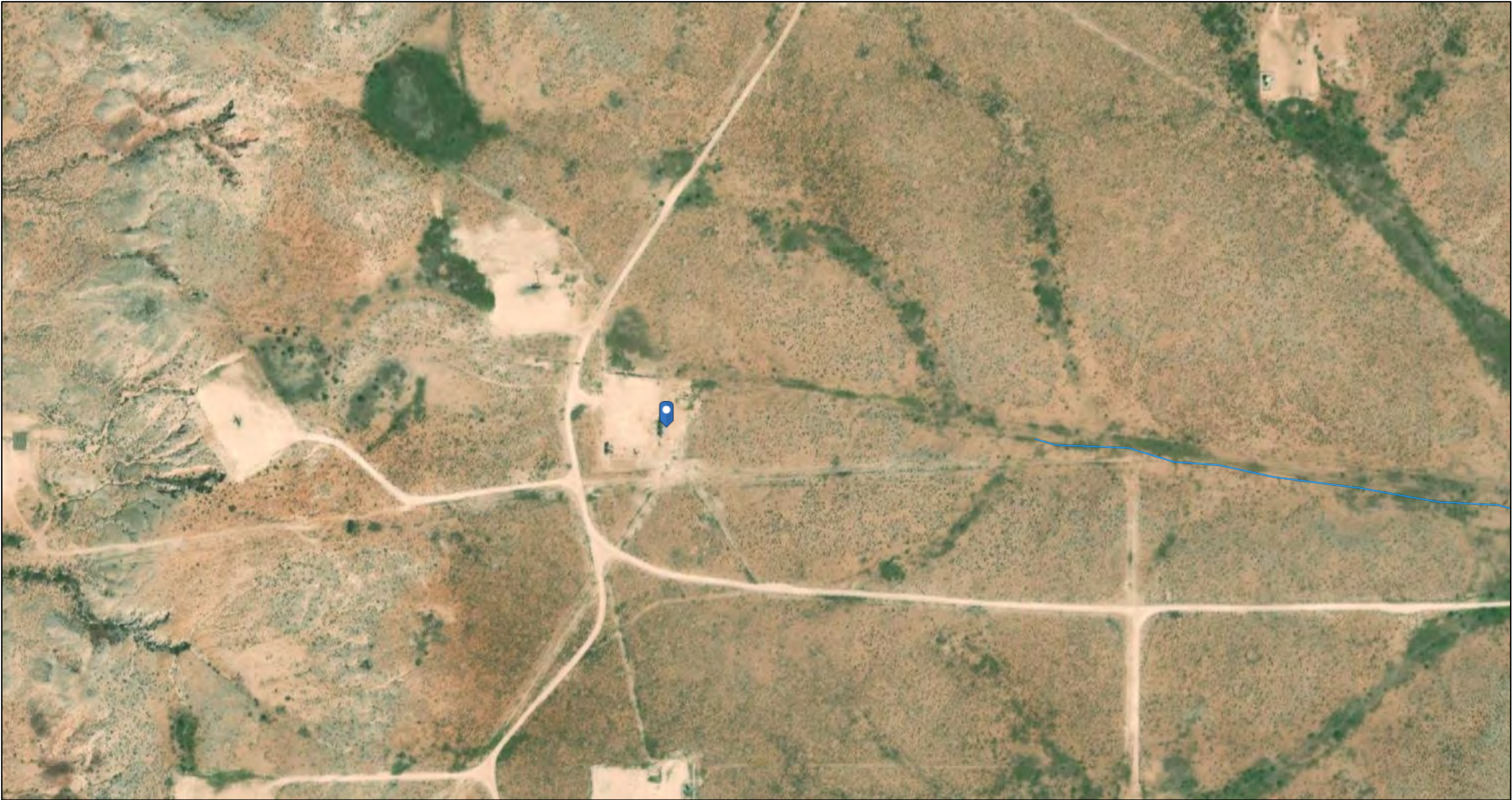
Karst Occurrence Potential

- High
- Medium
- Low



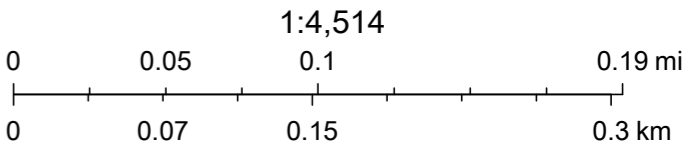
BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, iPC, Maxar

OCD Waterbodies Map



12/16/2022, 2:10:02 PM

— OSE Streams



Esri, HERE, Garmin, IPC, Maxar, NM OSE

APPENDIX E

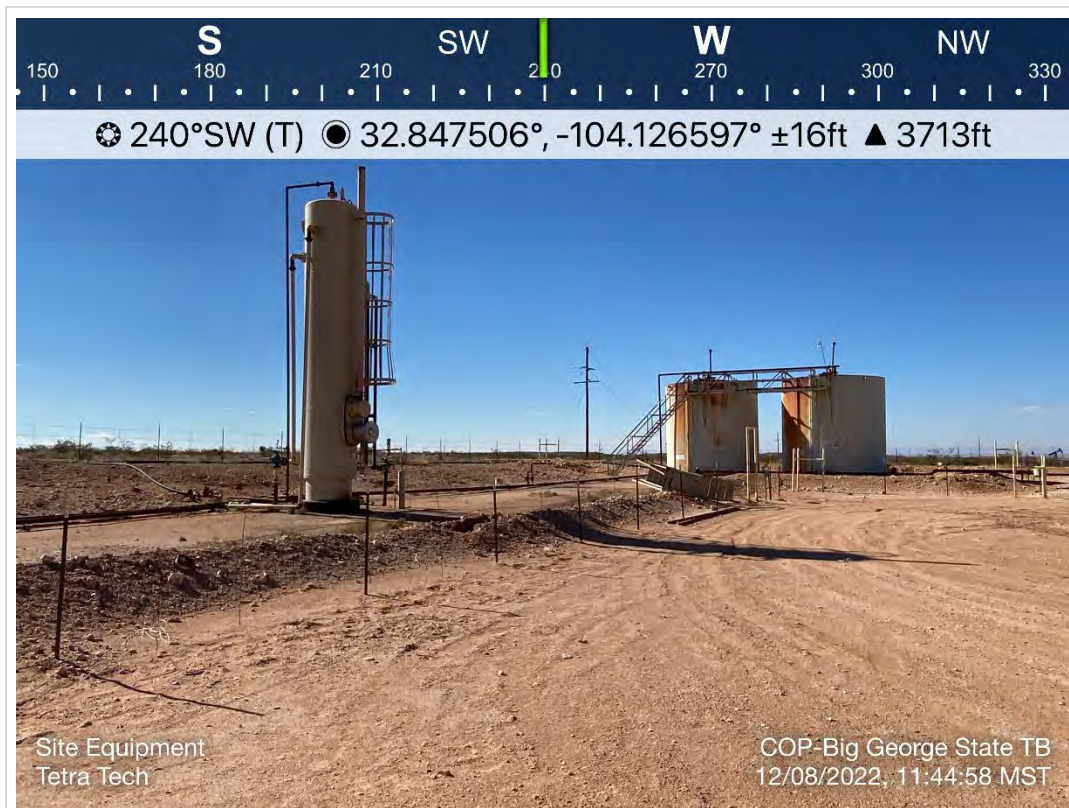
Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-02933	DESCRIPTION	Adjacent Big George State #2 lease sign.	1
	SITE NAME	ConocoPhillips Big George State #3	12/08/2022



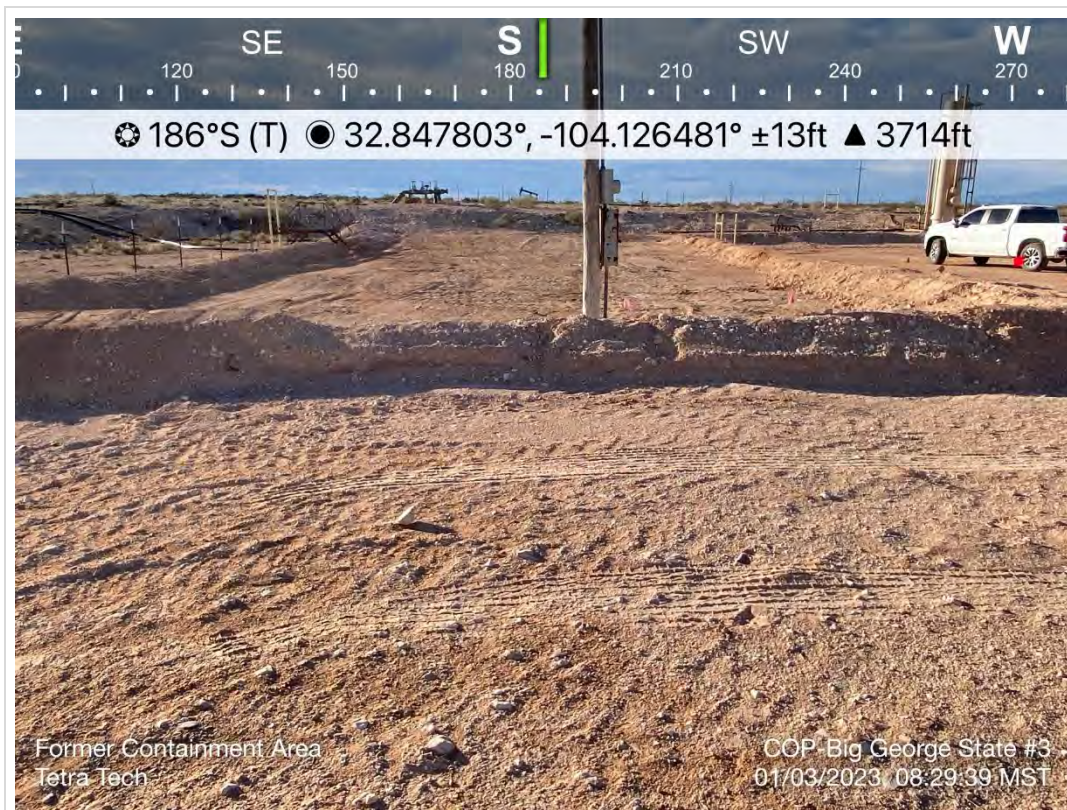
TETRA TECH, INC. PROJECT NO. 212C-MD-02933	DESCRIPTION	View east/southeast. View of inactive production equipment located on the eastern edge of the lease pad.	2
	SITE NAME	ConocoPhillips Big George State #3	12/08/2022



TETRA TECH, INC. PROJECT NO. 212C-MD-02933	DESCRIPTION	View Southwest. Corner of shared containment, view of active Big George State #2 tank battery, prior to decom.	3
	SITE NAME	ConocoPhillips Big George State #3	12/08/2022



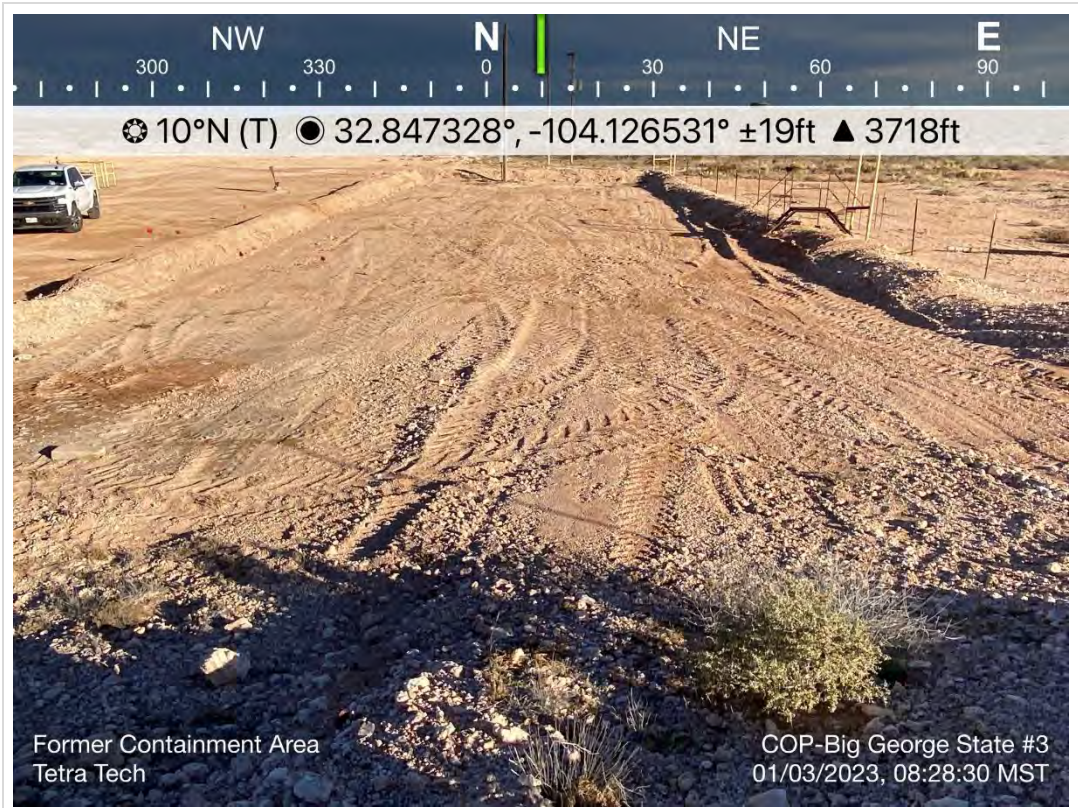
TETRA TECH, INC. PROJECT NO. 212C-MD-02933	DESCRIPTION	View southwest. View of former containment area after battery deconstruction.	4
	SITE NAME	ConocoPhillips Big George State #3	1/3/2023



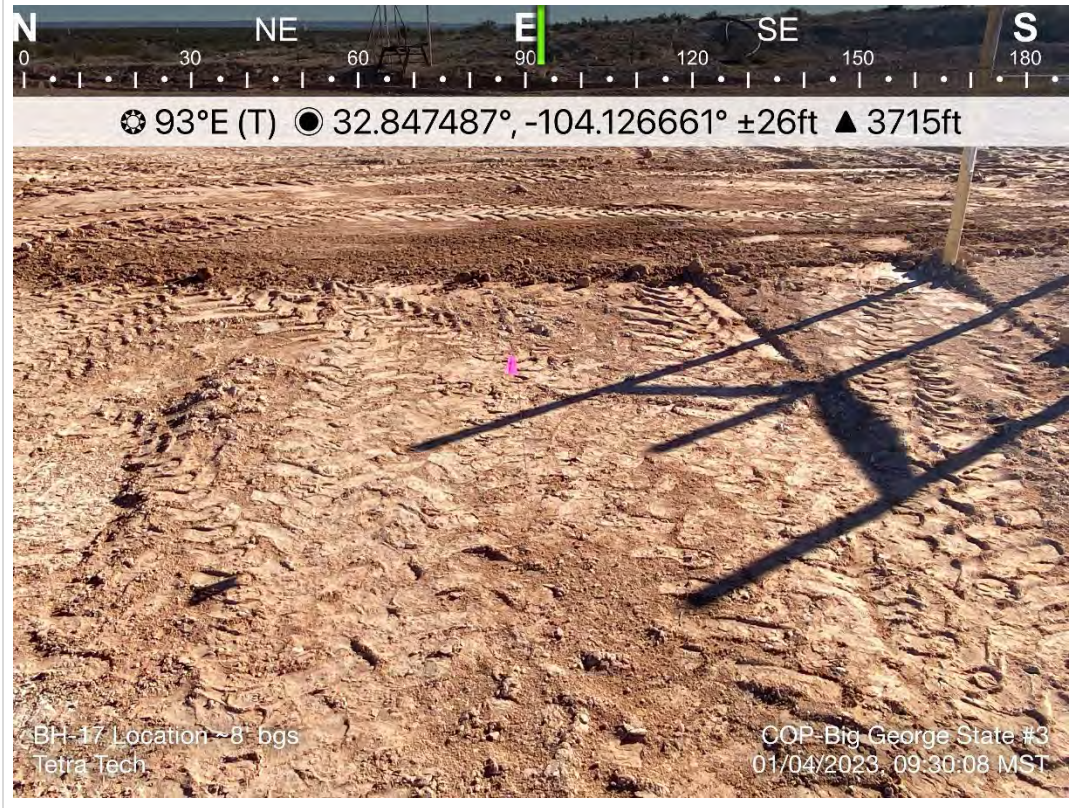
TETRA TECH, INC. PROJECT NO. 212C-MD-02933	DESCRIPTION	View south. View of former battery area.	5
	SITE NAME	ConocoPhillips Big George State #3	1/3/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02933	DESCRIPTION	View northeast. View of former battery area.	6
	SITE NAME	ConocoPhillips Big George State #3	1/3/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02933	DESCRIPTION	View north. View of former battery area.	7
	SITE NAME	ConocoPhillips Big George State #3	1/3/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02933	DESCRIPTION	View east. View of former battery area post-berm removal.	8
	SITE NAME	ConocoPhillips Big George State #3	1/4/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02933	DESCRIPTION	View west. View of BH-6 Location.	9
	SITE NAME	ConocoPhillips Big George State #3	1/4/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02933	DESCRIPTION	View south. View of BH-21 Location.	10
	SITE NAME	ConocoPhillips Big George State #3	1/4/2023

APPENDIX F

Laboratory Analytical Data



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 11, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BIG GEORGE STATE #3 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/10/23 16:24.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/09/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 17 (0-1') (H230115-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2023	ND	2.08	104	2.00	1.48	
Toluene*	<0.050	0.050	01/10/2023	ND	2.08	104	2.00	0.314	
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.07	103	2.00	0.455	
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.30	105	6.00	1.33	
Total BTX	<0.300	0.300	01/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4640	16.0	01/11/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	209	105	200	0.105	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 17 (3-4') (H230115-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.08	104	2.00	1.48		
Toluene*	<0.050	0.050	01/10/2023	ND	2.08	104	2.00	0.314		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.07	103	2.00	0.455		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.30	105	6.00	1.33		
Total BTEx	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	01/11/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	209	105	200	0.105	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 17 (6-7') (H230115-03)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2023	ND	2.08	104	2.00	1.48	
Toluene*	<0.050	0.050	01/10/2023	ND	2.08	104	2.00	0.314	
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.07	103	2.00	0.455	
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.30	105	6.00	1.33	
Total BTEX	<0.300	0.300	01/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2680	16.0	01/11/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	209	105	200	0.105	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 17 (7-8') (H230115-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	01/10/2023	ND	2.17	108	2.00	0.187		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.11	106	2.00	0.00705		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.58	110	6.00	1.05		
Total BTEX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1340	16.0	01/11/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	209	105	200	0.105	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 17 (9-10') (H230115-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	01/10/2023	ND	2.17	108	2.00	0.187		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.11	106	2.00	0.00705		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.58	110	6.00	1.05		
Total BTEX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	01/11/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	209	105	200	0.105	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 17 (14-15') (H230115-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	01/10/2023	ND	2.17	108	2.00	0.187		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.11	106	2.00	0.00705		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.58	110	6.00	1.05		
Total BTEX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	01/11/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	209	105	200	0.105	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 18 (0-1') (H230115-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	01/10/2023	ND	2.17	108	2.00	0.187		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.11	106	2.00	0.00705		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.58	110	6.00	1.05		
Total BTEX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	01/11/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	209	105	200	0.105	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 18 (4-5') (H230115-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	01/10/2023	ND	2.17	108	2.00	0.187		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.11	106	2.00	0.00705		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.58	110	6.00	1.05		
Total BTEx	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3280	16.0	01/11/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	209	105	200	0.105	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 18 (7-8') (H230115-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2023	ND	2.02	101	2.00	1.65	
Toluene*	<0.050	0.050	01/10/2023	ND	2.17	108	2.00	0.187	
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.11	106	2.00	0.00705	
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.58	110	6.00	1.05	
Total BTEX	<0.300	0.300	01/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	01/11/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	200	100	200	1.40	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	209	105	200	0.105	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 18 (8-9') (H230115-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	01/10/2023	ND	2.17	108	2.00	0.187		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.11	106	2.00	0.00705		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.58	110	6.00	1.05		
Total BTEX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	01/11/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	202	101	200	1.83	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	216	108	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 18 (9-10') (H230115-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2023	ND	2.02	101	2.00	1.65	
Toluene*	<0.050	0.050	01/10/2023	ND	2.17	108	2.00	0.187	
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.11	106	2.00	0.00705	
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.58	110	6.00	1.05	
Total BTEX	<0.300	0.300	01/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	01/11/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	202	101	200	1.83	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	216	108	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/09/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 19 (0-1') (H230115-12)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2023	ND	2.02	101	2.00	1.65	
Toluene*	<0.050	0.050	01/10/2023	ND	2.17	108	2.00	0.187	
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.11	106	2.00	0.00705	
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.58	110	6.00	1.05	
Total BTEx	<0.300	0.300	01/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5040	16.0	01/11/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	202	101	200	1.83	
DRO >C10-C28*	10.9	10.0	01/10/2023	ND	216	108	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 19 (3-4') (H230115-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	01/10/2023	ND	2.17	108	2.00	0.187		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.11	106	2.00	0.00705		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.58	110	6.00	1.05		
Total BTEX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1720	16.0	01/11/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	202	101	200	1.83	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	216	108	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 19 (6-7') (H230115-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	01/10/2023	ND	2.17	108	2.00	0.187		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.11	106	2.00	0.00705		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.58	110	6.00	1.05		
Total BTEx	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	01/11/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	202	101	200	1.83	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	216	108	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 19 (8-9') (H230115-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	01/10/2023	ND	2.17	108	2.00	0.187		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.11	106	2.00	0.00705		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.58	110	6.00	1.05		
Total BTEX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	01/11/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	202	101	200	1.83	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	216	108	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 19 (9-10') (H230115-16)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	01/10/2023	ND	2.17	108	2.00	0.187		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.11	106	2.00	0.00705		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.58	110	6.00	1.05		
Total BTEX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	01/11/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	202	101	200	1.83	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	216	108	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 20 (0-1') (H230115-17)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2023	ND	2.02	101	2.00	1.65	
Toluene*	<0.050	0.050	01/10/2023	ND	2.17	108	2.00	0.187	
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.11	106	2.00	0.00705	
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.58	110	6.00	1.05	
Total BTX	<0.300	0.300	01/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	01/11/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	202	101	200	1.83	
DRO >C10-C28*	118	10.0	01/10/2023	ND	216	108	200	1.52	
EXT DRO >C28-C36	47.6	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 20 (3-4') (H230115-18)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2023	ND	2.02	101	2.00	1.65	
Toluene*	<0.050	0.050	01/10/2023	ND	2.17	108	2.00	0.187	
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.11	106	2.00	0.00705	
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.58	110	6.00	1.05	
Total BTEX	<0.300	0.300	01/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	01/11/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	202	101	200	1.83	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	216	108	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 20 (6-7') (H230115-19)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2023	ND	2.02	101	2.00	1.65	
Toluene*	<0.050	0.050	01/10/2023	ND	2.17	108	2.00	0.187	
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.11	106	2.00	0.00705	
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.58	110	6.00	1.05	
Total BTEX	<0.300	0.300	01/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	01/11/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	202	101	200	1.83	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	216	108	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 20 (7-8') (H230115-20)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2023	ND	2.02	101	2.00	1.65	
Toluene*	<0.050	0.050	01/10/2023	ND	2.17	108	2.00	0.187	
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.11	106	2.00	0.00705	
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.58	110	6.00	1.05	
Total BTEX	<0.300	0.300	01/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	01/11/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	202	101	200	1.83	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	216	108	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 20 (9-10') (H230115-21)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	01/10/2023	ND	2.17	108	2.00	0.187		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.11	106	2.00	0.00705		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.58	110	6.00	1.05		
Total BTEX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	202	101	200	1.83	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	216	108	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 11 (0-1') (H230115-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	01/10/2023	ND	2.17	108	2.00	0.187		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.11	106	2.00	0.00705		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.58	110	6.00	1.05		
Total BTEX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2560	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	202	101	200	1.83	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	216	108	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/09/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 11 (2-3') (H230115-23)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.02	101	2.00	1.65		
Toluene*	<0.050	0.050	01/10/2023	ND	2.17	108	2.00	0.187		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.11	106	2.00	0.00705		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.58	110	6.00	1.05		
Total BTX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1680	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	202	101	200	1.83	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	216	108	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/09/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 11 (3-4') (H230115-24)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.13	106	2.00	2.08		
Toluene*	<0.050	0.050	01/10/2023	ND	2.16	108	2.00	3.57		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.15	108	2.00	3.27		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.46	108	6.00	2.71		
Total BTEX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	202	101	200	1.83	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	216	108	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.0 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 11 (4-5') (H230115-25)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.13	106	2.00	2.08		
Toluene*	<0.050	0.050	01/10/2023	ND	2.16	108	2.00	3.57		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.15	108	2.00	3.27		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.46	108	6.00	2.71		
Total BTEx	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	202	101	200	1.83	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	216	108	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.3 % 49.1-148

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 15 (0-1') (H230115-26)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.13	106	2.00	2.08		
Toluene*	<0.050	0.050	01/10/2023	ND	2.16	108	2.00	3.57		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.15	108	2.00	3.27		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.46	108	6.00	2.71		
Total BTEx	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3200	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	202	101	200	1.83	
DRO >C10-C28*	29.4	10.0	01/11/2023	ND	216	108	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 70.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 15 (4-5') (H230115-27)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.13	106	2.00	2.08		
Toluene*	<0.050	0.050	01/10/2023	ND	2.16	108	2.00	3.57		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.15	108	2.00	3.27		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.46	108	6.00	2.71		
Total BTEx	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	202	101	200	1.83	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	216	108	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 15 (6-7') (H230115-28)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2023	ND	2.13	106	2.00	2.08	
Toluene*	<0.050	0.050	01/10/2023	ND	2.16	108	2.00	3.57	
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.15	108	2.00	3.27	
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.46	108	6.00	2.71	
Total BTEX	<0.300	0.300	01/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	01/11/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	202	101	200	1.83	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	216	108	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 15 (7-8') (H230115-29)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.13	106	2.00	2.08		
Toluene*	<0.050	0.050	01/10/2023	ND	2.16	108	2.00	3.57		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.15	108	2.00	3.27		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.46	108	6.00	2.71		
Total BTEx	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	01/11/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	202	101	200	1.83	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	216	108	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 15 (9-10') (H230115-30)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.13	106	2.00	2.08		
Toluene*	<0.050	0.050	01/10/2023	ND	2.16	108	2.00	3.57		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.15	108	2.00	3.27		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.46	108	6.00	2.71		
Total BTEx	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	01/11/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	190	94.8	200	3.15	QR-03
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	186	93.1	200	2.05	QR-03
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 14 (0-1') (H230115-31)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.13	106	2.00	2.08		
Toluene*	<0.050	0.050	01/10/2023	ND	2.16	108	2.00	3.57		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.15	108	2.00	3.27		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.46	108	6.00	2.71		
Total BTEx	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2120	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	190	94.8	200	3.15	
DRO >C10-C28*	54.8	10.0	01/10/2023	ND	186	93.1	200	2.05	
EXT DRO >C28-C36	25.8	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 58.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 14 (4-5') (H230115-32)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.13	106	2.00	2.08		
Toluene*	<0.050	0.050	01/10/2023	ND	2.16	108	2.00	3.57		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.15	108	2.00	3.27		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.46	108	6.00	2.71		
Total BTEX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	190	94.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	186	93.1	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/10/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 14 (6-7') (H230115-33)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.13	106	2.00	2.08		
Toluene*	<0.050	0.050	01/10/2023	ND	2.16	108	2.00	3.57		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.15	108	2.00	3.27		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.46	108	6.00	2.71		
Total BTEx	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	190	94.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	186	93.1	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 14 (7-8') (H230115-34)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.13	106	2.00	2.08		
Toluene*	<0.050	0.050	01/10/2023	ND	2.16	108	2.00	3.57		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.15	108	2.00	3.27		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.46	108	6.00	2.71		
Total BTEX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1680	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	190	94.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	186	93.1	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/10/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 14 (9-10') (H230115-35)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.13	106	2.00	2.08		
Toluene*	<0.050	0.050	01/10/2023	ND	2.16	108	2.00	3.57		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.15	108	2.00	3.27		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.46	108	6.00	2.71		
Total BTEX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1310	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	190	94.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	186	93.1	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/10/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 14 (14-15') (H230115-36)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	2.13	106	2.00	2.08		
Toluene*	<0.050	0.050	01/10/2023	ND	2.16	108	2.00	3.57		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.15	108	2.00	3.27		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.46	108	6.00	2.71		
Total BTEX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5680	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	190	94.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	186	93.1	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 72.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 14 (19-20') (H230115-37)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2023	ND	2.13	106	2.00	2.08	
Toluene*	<0.050	0.050	01/10/2023	ND	2.16	108	2.00	3.57	
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.15	108	2.00	3.27	
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.46	108	6.00	2.71	
Total BTEX	<0.300	0.300	01/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3120	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	190	94.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	186	93.1	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/10/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 14 (24-25') (H230115-38)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2023	ND	2.13	106	2.00	2.08	
Toluene*	<0.050	0.050	01/10/2023	ND	2.16	108	2.00	3.57	
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.15	108	2.00	3.27	
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.46	108	6.00	2.71	
Total BTEX	<0.300	0.300	01/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1570	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	190	94.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	186	93.1	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 72.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.5 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/10/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 14 (29-30') (H230115-39)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2023	ND	2.13	106	2.00	2.08	
Toluene*	<0.050	0.050	01/10/2023	ND	2.16	108	2.00	3.57	
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.15	108	2.00	3.27	
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.46	108	6.00	2.71	
Total BTEX	<0.300	0.300	01/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3840	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	190	94.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	186	93.1	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 59.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 14 (34-35') (H230115-40)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	2.13	106	2.00	2.08	
Toluene*	<0.050	0.050	01/11/2023	ND	2.16	108	2.00	3.57	
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.15	108	2.00	3.27	
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.46	108	6.00	2.71	
Total BTEX	<0.300	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	01/11/2023	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	190	94.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	186	93.1	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 63.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/10/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 14 (39-40') (H230115-41)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.13	106	2.00	2.08		
Toluene*	<0.050	0.050	01/11/2023	ND	2.16	108	2.00	3.57		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.15	108	2.00	3.27		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.46	108	6.00	2.71		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	01/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	190	94.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	186	93.1	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 54.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 59.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 14 (44-45') (H230115-42)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.13	106	2.00	2.08		
Toluene*	<0.050	0.050	01/11/2023	ND	2.16	108	2.00	3.57		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.15	108	2.00	3.27		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.46	108	6.00	2.71		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	01/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	190	94.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	186	93.1	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 13 (0-1') (H230115-43)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	2.13	106	2.00	2.08	
Toluene*	<0.050	0.050	01/11/2023	ND	2.16	108	2.00	3.57	
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.15	108	2.00	3.27	
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.46	108	6.00	2.71	
Total BTEX	<0.300	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2760	16.0	01/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	190	94.8	200	3.15	
DRO >C10-C28*	26.9	10.0	01/11/2023	ND	186	93.1	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 65.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 13 (3-4') (H230115-44)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	1.95	97.5	2.00	6.57		
Toluene*	<0.050	0.050	01/10/2023	ND	2.04	102	2.00	4.49		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.03	102	2.00	6.67		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.30	105	6.00	6.85		
Total BTEX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1300	16.0	01/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	190	94.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	186	93.1	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 75.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/10/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 13 (4-5') (H230115-45)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	1.95	97.5	2.00	6.57		
Toluene*	<0.050	0.050	01/10/2023	ND	2.04	102	2.00	4.49		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.03	102	2.00	6.67		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.30	105	6.00	6.85		
Total BTX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	01/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	190	94.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	186	93.1	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 72.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 13 (6-7') (H230115-46)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	1.95	97.5	2.00	6.57		
Toluene*	<0.050	0.050	01/10/2023	ND	2.04	102	2.00	4.49		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.03	102	2.00	6.67		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.30	105	6.00	6.85		
Total BTEX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	01/11/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	190	94.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	186	93.1	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 70.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.8 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/10/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 13 (9-10') (H230115-47)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	1.95	97.5	2.00	6.57		
Toluene*	<0.050	0.050	01/10/2023	ND	2.04	102	2.00	4.49		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.03	102	2.00	6.67		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.30	105	6.00	6.85		
Total BTEx	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1710	16.0	01/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	190	94.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	186	93.1	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 49.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 53.4 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/10/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 13 (14-15') (H230115-48)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	1.95	97.5	2.00	6.57		
Toluene*	<0.050	0.050	01/10/2023	ND	2.04	102	2.00	4.49		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.03	102	2.00	6.67		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.30	105	6.00	6.85		
Total BTEX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5280	16.0	01/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	190	94.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	186	93.1	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/10/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 13 (19-20') (H230115-49)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	1.95	97.5	2.00	6.57		
Toluene*	<0.050	0.050	01/10/2023	ND	2.04	102	2.00	4.49		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.03	102	2.00	6.67		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.30	105	6.00	6.85		
Total BTEX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1840	16.0	01/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	190	94.8	200	3.15	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	186	93.1	200	2.05	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 13 (24-25') (H230115-50)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	1.95	97.5	2.00	6.57		
Toluene*	<0.050	0.050	01/10/2023	ND	2.04	102	2.00	4.49		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.03	102	2.00	6.67		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.30	105	6.00	6.85		
Total BTEX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2480	16.0	01/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	206	103	200	0.695	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	199	99.4	200	0.444	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/10/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 13 (29-30') (H230115-51)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	1.95	97.5	2.00	6.57		
Toluene*	<0.050	0.050	01/10/2023	ND	2.04	102	2.00	4.49		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.03	102	2.00	6.67		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.30	105	6.00	6.85		
Total BTEX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	01/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	206	103	200	0.695	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	199	99.4	200	0.444	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/10/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 13 (34-35') (H230115-52)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	1.95	97.5	2.00	6.57		
Toluene*	<0.050	0.050	01/10/2023	ND	2.04	102	2.00	4.49		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.03	102	2.00	6.67		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.30	105	6.00	6.85		
Total BTEX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	01/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	206	103	200	0.695	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	199	99.4	200	0.444	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 13 (39-40') (H230115-53)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	1.95	97.5	2.00	6.57		
Toluene*	<0.050	0.050	01/10/2023	ND	2.04	102	2.00	4.49		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.03	102	2.00	6.67		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.30	105	6.00	6.85		
Total BTEX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	01/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	206	103	200	0.695	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	199	99.4	200	0.444	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/10/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 (0-1') (H230115-54)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	1.95	97.5	2.00	6.57		
Toluene*	<0.050	0.050	01/10/2023	ND	2.04	102	2.00	4.49		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.03	102	2.00	6.67		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.30	105	6.00	6.85		
Total BTEx	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	206	103	200	0.695	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	199	99.4	200	0.444	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 12 (2-3') (H230115-55)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	1.95	97.5	2.00	6.57		
Toluene*	<0.050	0.050	01/10/2023	ND	2.04	102	2.00	4.49		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.03	102	2.00	6.67		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.30	105	6.00	6.85		
Total BTEx	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	01/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	206	103	200	0.695	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	199	99.4	200	0.444	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 12 (3-4') (H230115-56)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2023	ND	1.95	97.5	2.00	6.57		
Toluene*	<0.050	0.050	01/10/2023	ND	2.04	102	2.00	4.49		
Ethylbenzene*	<0.050	0.050	01/10/2023	ND	2.03	102	2.00	6.67		
Total Xylenes*	<0.150	0.150	01/10/2023	ND	6.30	105	6.00	6.85		
Total BTEX	<0.300	0.300	01/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	01/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	206	103	200	0.695	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	199	99.4	200	0.444	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 74.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/10/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 (4-5') (H230115-57)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.95	97.5	2.00	6.57		
Toluene*	<0.050	0.050	01/11/2023	ND	2.04	102	2.00	4.49		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.67		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.30	105	6.00	6.85		
Total BTX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	01/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	206	103	200	0.695	
DRO >C10-C28*	22.1	10.0	01/10/2023	ND	199	99.4	200	0.444	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 72.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.4 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 12 (6-7') (H230115-58)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.95	97.5	2.00	6.57		
Toluene*	<0.050	0.050	01/11/2023	ND	2.04	102	2.00	4.49		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.67		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.30	105	6.00	6.85		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/11/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	01/11/2023	ND	206	103	200	0.695	
DRO >C10-C28*	2250	50.0	01/11/2023	ND	199	99.4	200	0.444	
EXT DRO >C28-C36	660	50.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 182 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 12 (7-8') (H230115-59)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.95	97.5	2.00	6.57		
Toluene*	<0.050	0.050	01/11/2023	ND	2.04	102	2.00	4.49		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.67		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.30	105	6.00	6.85		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	01/11/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	206	103	200	0.695	
DRO >C10-C28*	638	10.0	01/11/2023	ND	199	99.4	200	0.444	
EXT DRO >C28-C36	201	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 16 (0-1') (H230115-60)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.95	97.5	2.00	6.57		
Toluene*	<0.050	0.050	01/11/2023	ND	2.04	102	2.00	4.49		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.67		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.30	105	6.00	6.85		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	206	103	200	0.695	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	199	99.4	200	0.444	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 16 (2-3') (H230115-61)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.95	97.5	2.00	6.57		
Toluene*	<0.050	0.050	01/11/2023	ND	2.04	102	2.00	4.49		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.67		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.30	105	6.00	6.85		
Total BTX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	206	103	200	0.695	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	199	99.4	200	0.444	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/10/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 16 (3-4') (H230115-62)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.95	97.5	2.00	6.57		
Toluene*	<0.050	0.050	01/11/2023	ND	2.04	102	2.00	4.49		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.67		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.30	105	6.00	6.85		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	206	103	200	0.695	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	199	99.4	200	0.444	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 16 (4-5') (H230115-63)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.95	97.5	2.00	6.57		
Toluene*	<0.050	0.050	01/11/2023	ND	2.04	102	2.00	4.49		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.67		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.30	105	6.00	6.85		
Total BTX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	206	103	200	0.695	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	199	99.4	200	0.444	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 16 (6-7') (H230115-64)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.89	94.4	2.00	9.15		
Toluene*	<0.050	0.050	01/11/2023	ND	2.09	105	2.00	8.42		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.05	102	2.00	8.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.31	105	6.00	8.20		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	206	103	200	0.695	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	199	99.4	200	0.444	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/10/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 16 (7-8') (H230115-65)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.89	94.4	2.00	9.15		
Toluene*	<0.050	0.050	01/11/2023	ND	2.09	105	2.00	8.42		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.05	102	2.00	8.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.31	105	6.00	8.20		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	206	103	200	0.695	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	199	99.4	200	0.444	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

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Page 69 of 74



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech				BILL TO				ANALYSIS REQUEST																
Project Manager: Christian Llull				P.O. #:																				
Address: 8911 Capital o Texas Hwy, Suite 2310				Company: Tetra Tech																				
City: Austin				State: TX Zip: 78750				Attn: Christian Llull																
Phone #: (512)565-0180 Fax #:				Address: EMAIL																				
Project #: 212C-MD-02933, Task 110 Project Owner: ConocoPhillips				City:																				
Project Name: Big George State #3 Release				State:				Zip:																
Project Location: Eddy County, New Mexico				Phone #:																				
Sample Name: Colton Bickertaff				Fax #:																				
FOR LAB USE ONLY																								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500Cl-B								
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :														ACID/BASE:	ICE / COOL
H330115	BH-20 (9-10')	G 1	X											X	X	X								
21	BH-11 (0-1')	G 1	X											1/9/2023		X	X	X						
22	BH-11 (2-3')	G 1	X											1/9/2023		X	X	X						
23	BH-11 (3-4')	G 1	X											1/9/2023		X	X	X						
24	BH-11 (4-5')	G 1	X											1/9/2023		X	X	X						
25	BH-15 (0-1')	G 1	X											1/9/2023		X	X	X						
26	BH-15 (4-5')	G 1	X											1/9/2023		X	X	X						
27	BH-15 (6-7')	G 1	X											1/9/2023		X	X	X						
28	BH-15 (7-8')	G 1	X											1/9/2023		X	X	X						
29	BH-15 (9-10')	G 1	X											1/9/2023		X	X	X						

REMARKS: This report shall contain all analytical results, including field observations, laboratory observations, test of date, or test results, as applicable. It is the responsibility of the client to ensure that all samples are properly labeled and that all data is reported accurately. The client is responsible for ensuring that all samples are properly labeled and that all data is reported accurately. The client is responsible for ensuring that all samples are properly labeled and that all data is reported accurately.

Relinquished By: Colton Bickertaff		Date: 1/10/23		Received By: [Signature]		Date: 1/10/23	
Time: 10:34		Time:		Time:		Time:	
Observed Temp. °C 30.0		Corrected Temp. °C 3.3		Sample Condition		CHECKED BY: [Signature] (Initials)	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Thermometer ID #113 Correction Factor: -0.10		Standard <input type="checkbox"/> Batch <input checked="" type="checkbox"/>		Add'l Phone #:	
Remarks:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		All Results are emailed. Please provide Email address:			



ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalallabsnm.com



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech		101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	
Project Manager: Christian Lull		P.O. #:	
Address: 8911 Capital o Texas Hwy, Suite 2310		Company: Tetra Tech	
City: Austin		Attn: Christian Lull	
State: TX Zip: 78750		Address: EMAIL	
Phone #: (512)565-0190 Fax #:		City:	
Project #: 212C-MD-02933, Task 110 Project Owner: CanocoPhillips		State: Zip:	
Project Name: Big George State #3 Release		Phone #:	
Project Location: Eddy County, New Mexico		Fax #:	
Sampler Name: Colton Bickerstaff		PRESERV. SAMPLING	
Lab I.D.		FOOT LOCKER ONLY	
Sample I.D.		(G)RAB OR (C)OMP.	
		# CONTAINERS	
		GROUNDWATER	
		WASTEWATER	
		SOIL	
		OIL	
		SLUDGE	
		OTHER :	
		ACID/BASE:	
		ICE / COOL	
		OTHER :	
		DATE	
		TIME	
BH-14 (39-40')		X	
BH-14 (44-45')		X	
BH-13 (0-1')		X	
BH-13 (3-4')		X	
BH-13 (4-5')		X	
BH-13 (6-7')		X	
BH-13 (9-10')		X	
BH-13 (14-15')		X	
BH-13 (19-20')		X	
BH-13 (24-25')		X	
41		X	
42		X	
43		X	
44		X	
45		X	
46		X	
47		X	
48		X	
49		X	
50		X	
TPH 8015M		X	
BTEX 8021B		X	
Chloride SM4500C1-B		X	
Relinquished By: Colton Bickerstaff		Date: 1/10/23	
Received By: Shakir Myers		Date: 1/10/23	
Time: 10:24		Time: 10:24	
Delivered By: (Circle One)		Observed Temp. °C 3.9	
Sampler - UPS - Bus - Other:		Corrected Temp. °C 3.3	
Sample Condition		Cool Impact	
Checked By: (Initials)		Thermometer ID #113	
Correction Factor -0.6		Standard	
Backfill (only) Sample Condition		Observed Temp. °C	
Verbal Result: Yes No		Add'l Phone #:	
All Results are emailed. Please provide Email address:		REMARKS:	

FORM-006 R 3.2 10/07/21

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Company Name: Tetra Tech

BILL TO

ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476 BILL TO										ANALYSIS REQUEST									
Company Name: Tetra Tech										P.O. #:									
Project Manager: Christian Lull										Company: Tetra Tech									
Address: 8911 Capital o Texas Hwy, Suite 2310										Attn: Christian Lull									
City: Austin										State: TX Zip: 78750									
Phone #: (512)565-0190 Fax #:										Address: EMAIL									
Project #: 212C-MD-02933, Task 110 Project Owner:										City:									
Project Name: Big George State #3 Release										State: Zip:									
Project Location: Eddy County, New Mexico										Phone #:									
Sampler Name: Colton Bickerstaff										Fax #:									
FOR LAB USE ONLY Lab I.D.										MATRIX PRESERV. SAMPLING									

[illegible]

Relinquished By: Colton Bickstaff						Date: 1/10/23		Received By:		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
Relinquished By:						Time: 11:44		Stodigueny		All Results are emailed. Please provide Email address:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:						Observed Temp. °C Corrected Temp. °C		Sample Condition Cool Impact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials)		Thermometer ID #113 Correction Factor +0.1°C	
						3-9 3-7				8R		Standard <input type="checkbox"/> Backward (only Sample Condition) Cool Select <input checked="" type="checkbox"/> Observed Temp. °C	
												<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	
REMARKS:													

FORM-006 R 3.2 10/07/21

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech

[illegible]

FORM-006 R.3.2 10/07/21

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 11, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BIG GEORGE STATE #3 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/10/23 16:24.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/10/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 3 (0-1) (H230121-01)

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	1.89	94.4	2.00	9.15	
Toluene*	<0.050	0.050	01/11/2023	ND	2.09	105	2.00	8.42	
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.05	102	2.00	8.48	
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.31	105	6.00	8.20	
Total BTX	<0.300	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/11/2023	ND	432	108	400	3.64	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	204	102	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	191	95.4	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 3 (2-3) (H230121-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.89	94.4	2.00	9.15		
Toluene*	<0.050	0.050	01/11/2023	ND	2.09	105	2.00	8.42		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.05	102	2.00	8.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.31	105	6.00	8.20		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	204	102	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	191	95.4	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 3 (3-4) (H230121-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.89	94.4	2.00	9.15		
Toluene*	<0.050	0.050	01/11/2023	ND	2.09	105	2.00	8.42		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.05	102	2.00	8.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.31	105	6.00	8.20		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	204	102	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	191	95.4	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 3 (4-5) (H230121-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.89	94.4	2.00	9.15		
Toluene*	<0.050	0.050	01/11/2023	ND	2.09	105	2.00	8.42		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.05	102	2.00	8.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.31	105	6.00	8.20		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	204	102	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	191	95.4	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 3 (6-7) (H230121-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.89	94.4	2.00	9.15		
Toluene*	<0.050	0.050	01/11/2023	ND	2.09	105	2.00	8.42		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.05	102	2.00	8.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.31	105	6.00	8.20		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	204	102	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	191	95.4	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 3 (8-9) (H230121-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.89	94.4	2.00	9.15		
Toluene*	<0.050	0.050	01/11/2023	ND	2.09	105	2.00	8.42		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.05	102	2.00	8.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.31	105	6.00	8.20		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	204	102	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	191	95.4	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 4 (0-1) (H230121-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.89	94.4	2.00	9.15		
Toluene*	<0.050	0.050	01/11/2023	ND	2.09	105	2.00	8.42		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.05	102	2.00	8.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.31	105	6.00	8.20		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	204	102	200	1.24	
DRO >C10-C28*	35.4	10.0	01/10/2023	ND	191	95.4	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 4 (2-3) (H230121-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.89	94.4	2.00	9.15		
Toluene*	<0.050	0.050	01/11/2023	ND	2.09	105	2.00	8.42		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.05	102	2.00	8.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.31	105	6.00	8.20		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	204	102	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	191	95.4	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 4 (3-4) (H230121-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	1.89	94.4	2.00	9.15	
Toluene*	<0.050	0.050	01/11/2023	ND	2.09	105	2.00	8.42	
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.05	102	2.00	8.48	
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.31	105	6.00	8.20	
Total BTEX	<0.300	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/11/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	204	102	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	191	95.4	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 4 (4-5) (H230121-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.89	94.4	2.00	9.15		
Toluene*	<0.050	0.050	01/11/2023	ND	2.09	105	2.00	8.42		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.05	102	2.00	8.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.31	105	6.00	8.20		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	204	102	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	191	95.4	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 4 (6-7) (H230121-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.89	94.4	2.00	9.15		
Toluene*	<0.050	0.050	01/11/2023	ND	2.09	105	2.00	8.42		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.05	102	2.00	8.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.31	105	6.00	8.20		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	204	102	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	191	95.4	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 5 (0-1) (H230121-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.98	98.9	2.00	7.29		
Toluene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.53		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.01	100	2.00	7.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.21	103	6.00	7.56		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	204	102	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	191	95.4	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 5 (2-3) (H230121-13)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.98	98.9	2.00	7.29		
Toluene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.53		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.01	100	2.00	7.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.21	103	6.00	7.56		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	204	102	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	191	95.4	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 5 (3-4) (H230121-14)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.98	98.9	2.00	7.29		
Toluene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.53		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.01	100	2.00	7.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.21	103	6.00	7.56		
Total BTX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	204	102	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	191	95.4	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 5 (4-5) (H230121-15)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.98	98.9	2.00	7.29		
Toluene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.53		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.01	100	2.00	7.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.21	103	6.00	7.56		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/11/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	204	102	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	191	95.4	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 5 (6-7) (H230121-16)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.98	98.9	2.00	7.29		
Toluene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.53		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.01	100	2.00	7.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.21	103	6.00	7.56		
Total BTX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/11/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	204	102	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	191	95.4	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/10/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 5 (8-9) (H230121-17)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.98	98.9	2.00	7.29		
Toluene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.53		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.01	100	2.00	7.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.21	103	6.00	7.56		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/11/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	204	102	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	191	95.4	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 6 (0-1) (H230121-18)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	1.98	98.9	2.00	7.29	
Toluene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.53	
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.01	100	2.00	7.48	
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.21	103	6.00	7.56	
Total BTEX	<0.300	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	01/11/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	204	102	200	1.24	
DRO >C10-C28*	82.8	10.0	01/11/2023	ND	191	95.4	200	5.44	
EXT DRO >C28-C36	14.9	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 6 (2-3) (H230121-19)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.98	98.9	2.00	7.29		
Toluene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.53		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.01	100	2.00	7.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.21	103	6.00	7.56		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/11/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	204	102	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	191	95.4	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 6 (3-4) (H230121-20)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.98	98.9	2.00	7.29		
Toluene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.53		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.01	100	2.00	7.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.21	103	6.00	7.56		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/11/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	204	102	200	1.24	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	191	95.4	200	5.44	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 6 (4-5) (H230121-21)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.98	98.9	2.00	7.29		
Toluene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.53		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.01	100	2.00	7.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.21	103	6.00	7.56		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/11/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2023	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	01/10/2023	ND	211	106	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	01/10/2023	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 6 (6-7) (H230121-22)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.98	98.9	2.00	7.29		
Toluene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.53		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.01	100	2.00	7.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.21	103	6.00	7.56		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/11/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	211	106	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 6 (8-9) (H230121-23)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.98	98.9	2.00	7.29		
Toluene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.53		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.01	100	2.00	7.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.21	103	6.00	7.56		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/11/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	211	106	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/10/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 6 (14-15) (H230121-24)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.98	98.9	2.00	7.29		
Toluene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.53		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.01	100	2.00	7.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.21	103	6.00	7.56		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/11/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	211	106	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 10 (0-1) (H230121-28)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.98	98.9	2.00	7.29		
Toluene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.53		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.01	100	2.00	7.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.21	103	6.00	7.56		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/11/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	211	106	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 10 (2-3) (H230121-29)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.98	98.9	2.00	7.29		
Toluene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.53		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.01	100	2.00	7.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.21	103	6.00	7.56		
Total BTX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/11/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	211	106	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 10 (3-4) (H230121-30)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.98	98.9	2.00	7.29		
Toluene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.53		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.01	100	2.00	7.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.21	103	6.00	7.56		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/11/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	211	106	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 10 (4-5) (H230121-31)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	1.98	98.9	2.00	7.29	
Toluene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.53	
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.01	100	2.00	7.48	
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.21	103	6.00	7.56	
Total BTX	<0.300	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/11/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	211	106	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 10 (7-8) (H230121-32)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.97	98.5	2.00	11.8		
Toluene*	<0.050	0.050	01/11/2023	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	10.5		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.17	103	6.00	10.1		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/11/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	211	106	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 10 (9-10) (H230121-33)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	1.97	98.5	2.00	11.8	
Toluene*	<0.050	0.050	01/11/2023	ND	2.02	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	10.5	
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.17	103	6.00	10.1	
Total BTEx	<0.300	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/11/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	211	106	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 21 (0-1) (H230121-34)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	1.97	98.5	2.00	11.8	
Toluene*	<0.050	0.050	01/11/2023	ND	2.02	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	10.5	
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.17	103	6.00	10.1	
Total BTEX	<0.300	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	01/11/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	01/11/2023	ND	201	100	200	1.34	
DRO >C10-C28*	3400	50.0	01/11/2023	ND	211	106	200	1.47	
EXT DRO >C28-C36	641	50.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 21 (2-3) (H230121-35)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.97	98.5	2.00	11.8		
Toluene*	<0.050	0.050	01/11/2023	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	10.5		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.17	103	6.00	10.1		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/11/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	201	100	200	1.34	
DRO >C10-C28*	34.6	10.0	01/11/2023	ND	211	106	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 21 (3-4) (H230121-36)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.97	98.5	2.00	11.8		
Toluene*	<0.050	0.050	01/11/2023	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	10.5		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.17	103	6.00	10.1		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/11/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	201	100	200	1.34	
DRO >C10-C28*	13.5	10.0	01/11/2023	ND	211	106	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 21 (4-5) (H230121-37)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	1.97	98.5	2.00	11.8	
Toluene*	<0.050	0.050	01/11/2023	ND	2.02	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	10.5	
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.17	103	6.00	10.1	
Total BTEX	<0.300	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/11/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	201	100	200	1.34	
DRO >C10-C28*	11.7	10.0	01/11/2023	ND	211	106	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/10/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 21 (6-7) (H230121-38)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.97	98.5	2.00	11.8		
Toluene*	<0.050	0.050	01/11/2023	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	10.5		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.17	103	6.00	10.1		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	201	100	200	1.34	
DRO >C10-C28*	137	10.0	01/11/2023	ND	211	106	200	1.47	
EXT DRO >C28-C36	13.9	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 21 (8-9) (H230121-39)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.97	98.5	2.00	11.8		
Toluene*	<0.050	0.050	01/11/2023	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	10.5		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.17	103	6.00	10.1		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	201	100	200	1.34	
DRO >C10-C28*	346	10.0	01/11/2023	ND	211	106	200	1.47	
EXT DRO >C28-C36	43.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 21 (14-15) (H230121-40)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.97	98.5	2.00	11.8		
Toluene*	<0.050	0.050	01/11/2023	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	10.5		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.17	103	6.00	10.1		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	211	106	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/10/2023	Sampling Date:	01/10/2023
Reported:	01/11/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 22 (0-1) (H230121-41)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.97	98.5	2.00	11.8		
Toluene*	<0.050	0.050	01/11/2023	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	10.5		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.17	103	6.00	10.1		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5600	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	181	90.3	200	8.37	
DRO >C10-C28*	171	10.0	01/11/2023	ND	175	87.7	200	9.98	
EXT DRO >C28-C36	36.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 22 (2-3) (H230121-42)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.97	98.5	2.00	11.8		
Toluene*	<0.050	0.050	01/11/2023	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	10.5		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.17	103	6.00	10.1		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5360	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	181	90.3	200	8.37	
DRO >C10-C28*	29.2	10.0	01/11/2023	ND	175	87.7	200	9.98	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 22 (3-4) (H230121-43)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.97	98.5	2.00	11.8		
Toluene*	<0.050	0.050	01/11/2023	ND	2.02	101	2.00	10.6		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	10.5		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.17	103	6.00	10.1		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	181	90.3	200	8.37	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	175	87.7	200	9.98	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 75.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 22 (6-7) (H230121-44)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.98	98.9	2.00	7.29		
Toluene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.53		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.01	100	2.00	7.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.21	103	6.00	7.56		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	181	90.3	200	8.37	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	175	87.7	200	9.98	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 22 (8-9) (H230121-45)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.98	98.9	2.00	7.29		
Toluene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.53		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.01	100	2.00	7.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.21	103	6.00	7.56		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	181	90.3	200	8.37	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	175	87.7	200	9.98	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/10/2023
 Reported: 01/11/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BH - 22 (14-15) (H230121-46)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.98	98.9	2.00	7.29		
Toluene*	<0.050	0.050	01/11/2023	ND	2.03	102	2.00	6.53		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.01	100	2.00	7.48		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.21	103	6.00	7.56		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/11/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	181	90.3	200	8.37	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	175	87.7	200	9.98	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech Project Manager: Christian Llull Address: 8911 Capital o Texas Hwy, Suite 2310 City: Austin State: TX Zip: 78750 Phone #: (512)565-0190 Fax #: Project #: 212C-MD-02933, Task 110 Project Owner: ConocoPhillips Project Name: Big George State #3 Release Project Location: Eddy County, New Mexico Sampler Name: Colton Bickstaff Lab I.D.:				P.O. #: Company: Tetra Tech Attn: Christian Llull Address: EMAIL City: State: Zip: Phone #: Fax #:			
BILL TO				ANALYSIS REQUEST			
Sample I.D. BH-3 (0-1) BH-3 (2-3) BH-3 (3-4) BH-3 (4-5) BH-3 (6-7) BH-3 (8-9) BH-4 (0-1) BH-4 (2-3) BH-4 (3-4) BH-4 (4-5)				(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		DATE TIME	
				TPH 8015M BTEX 8021B Chloride SM4500CI-B			
Relinquished By: Colton Bickstaff Date: 1/10/23 Received By: <i>Shatirquey</i> Date: 1/10/23 Time: 10:34 Received By:				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Remarks: Add'l Phone #:			
Relinquished By: <i>Shatirquey</i> Date: 1/10/23 Time: 10:34 Received By:				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Remarks: Add'l Phone #:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Observed Temp. °C 3.3 Corrected Temp. °C 3.3			
Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/>				CHECKED BY: (Initials) <i>SR</i>			
Thermometer ID #113 Correction Factor: -0.1°C				Thermometer ID #113 Correction Factor: -0.1°C			



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

ANALYSIS REQUEST

Company Name: Tetra Tech		P.O. #:															
Project Manager: Christian Lull		Company: Tetra Tech															
Address: 8911 Capital o Texas Hwy, Suite 2310		Attn: Christian Lull															
City: Austin State: TX Zip: 78750		Address: EMAIL															
Phone #: (512)565-0190 Fax #:		City: State: Zip:															
Project #: 212C-MD-02933, Task 110 Project Owner: ConocoPhillips		Phone #: Fax #:															
Project Name: Big George State #3 Release		PRESERV. SAMPLING															
Project Location: Eddy County, New Mexico																	
Sampler Name: Cotton Bickelstaff																	
FOR LAB USE ONLY																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500CI-B	
BH301a1	BH-4 (6-7)	G 1	1	X								1/10/2023		X	X	X	
12	BH-5 (0-1)	G 1	1	X								1/10/2023		X	X	X	
13	BH-5 (2-3)	G 1	1	X								1/10/2023		X	X	X	
14	BH-5 (3-4)	G 1	1	X								1/10/2023		X	X	X	
15	BH-5 (4-5)	G 1	1	X								1/10/2023		X	X	X	
16	BH-5 (6-7)	G 1	1	X								1/10/2023		X	X	X	
17	BH-5 (8-9)	G 1	1	X								1/10/2023		X	X	X	
18	BH-5 (0-1)	G 1	1	X								1/10/2023		X	X	X	
19	BH-6 (2-3)	G 1	1	X								1/10/2023		X	X	X	
20	BH-6 (3-4)	G 1	1	X								1/10/2023		X	X	X	
REMARKS:																	
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:																	
All Results are emailed. Please provide Email address:																	
REMARKS:																	
Relinquished By: Cotton Bickelstaff		Date: 1/10/23		Received By: Stephanie		Time: 1:24		Sample Condition		CHECKED BY: (Initials)		Thermometer ID #113		Standard		Bacteria (only) Sample Condition	
Relinquished By:		Time:		Received By:		Time:		Cool Impact		Cool Impact		Correction Factor: -0.10°C		Cool Impact		Bacteria (only) Sample Condition	
Delivered By: (Circle One)		Observed Temp. °C		Corrected Temp. °C		Sample Condition		Cool Impact		Cool Impact		Thermometer ID #113		Standard		Bacteria (only) Sample Condition	
Sampler - UPS - Bus - Other:		3.3		3.3		Cool Impact		Cool Impact		Cool Impact		Correction Factor: -0.10°C		Cool Impact		Bacteria (only) Sample Condition	

FORM-006 R 3.2 10/07/21

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech		101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	
Project Manager: Christian Lull		P.O. #:	
Address: 8911 Capital o Texas Hwy, Suite 2310		Company: Tetra Tech	
City: Austin		Attn: Christian Lull	
State: TX Zip: 78750		Address: EMAIL	
Phone #: (512)565-0190 Fax #:		City: State: Zip:	
Project #: 212C-MD-02933, Task 110 Project Owner: ConocoPhillips		Phone #: Fax #:	
Project Name: Big George State #3 Release		PRESERV. SAMPLING	
Project Location: Eddy County, New Mexico			
Sampler Name: Colton Bickerstaff			
Lab I.D.			
Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX
			GROUNDWATER
			WASTEWATER
			SOIL
			OIL
			SLUDGE
			OTHER :
			ACID/BASE:
			ICE / COOL
			OTHER :
		DATE	TIME
1130201	BH-6 (4-5)	G 1	X
21	BH-6 (6-7)	G 1	X
22	BH-6 (8-9)	G 1	X
23	BH-6 (14-15)	G 1	X
24	BH-6 (19-20)	G 1	X
25	BH-6 (24-25)	G 1	X
26	BH-6 (29-30)	G 1	X
27	BH-10 (0-1)	G 1	X
28	BH-10 (2-3)	G 1	X
29	BH-10 (3-4)	G 1	X
Retinquished By: Colton Bickerstaff		Date: 1/10/23	
Retinquished By: [Signature]		Received By: [Signature]	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C Corrected Temp. °C	
Sample Condition Cool <input checked="" type="checkbox"/> Insect <input checked="" type="checkbox"/> Mo <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: (Initials) [Signature]	
Thermometer Type: Standard <input type="checkbox"/> Backup (only) Sample Condition		Thermometer ID #113	
Correction Factor: -0.6°C		Corrected Temp. °C	
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
All Results are emailed. Please provide Email address:			
REMARKS:			

FORM-006 R 3.2 10/07/21

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CB



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO				ANALYSIS REQUEST								
Company Name: Tetra Tech				P.O. #:								
Project Manager: Christian Llull				Company: Tetra Tech								
Address: 8911 Capital o Texas Hwy, Suite 2310				Attn: Christian Llull								
City: Austin State: TX Zip: 78750				Address: EMAIL								
Phone #: (512)565-0190 Fax #:				City: State: Zip:								
Project #: 212C-MD-02933, Task 110 Project Owner: ConocoPhillips				Phone #: Fax #:								
Project Location: Eddy County, New Mexico												
Sampler Name: Colton Bickersstaff				PRESERV.								
Lab I.D.				SAMPLING								
Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500Cl-B
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE					
BH-10 (4-5)	G 1	X	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	X	X
BH-10 (7-8)	G 1	X	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	X	X
BH-10 (9-10)	G 1	X	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	X	X
BH-21 (0-1)	G 1	X	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	X	X
BH-21 (2-3)	G 1	X	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	X	X
BH-21 (3-4)	G 1	X	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	X	X
BH-21 (4-5)	G 1	X	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	X	X
BH-21 (6-7)	G 1	X	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	X	X
BH-21 (8-9)	G 1	X	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	X	X
BH-21 (14-15)	G 1	X	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	X	X	X

Retinquished By: Colton Bickersstaff		Date: 1/10/23	Received By: [Signature]
Time: 1:02 PM		REMARKS:	
Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:			
All Results are emailed. Please provide Email address:			

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C Corrected Temp. °C	Sample Condition <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Hot <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	CHECKED BY: (Initials)	Thermometer ID #113 Correction Factor -0.6°C
[Signature]	3.3°C 3.3°C		[Signature]	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech Project Manager: Christian Lulil Address: 8911 Capital o Texas Hwy, Suite 2310 City: Austin State: TX Zip: 78750 Phone #: (512)565-0190 Fax #: Project #: 212C-MD-02333, Task 110 Project Owner: ConocoPhillips Project Name: Big George State #3 Release Project Location: Eddy County, New Mexico Sampler Name: Colton Bickerstaff Lab I.D.:										P.O. #: Company: Tetra Tech Attn: Christian Lulil Address: EMAIL City: State: Zip: Phone #: Fax #:									
Retrieved By: <i>[Signature]</i> Date: 1/10/23 Received By: <i>[Signature]</i> Date:										Verbal Results: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:									
										REMARKS:									
Relinquished By: <i>[Signature]</i> Date: 1/10/23 Time: 10:24 Observed Temp. °C: 3.9 Corrected Temp. °C: 3.3 Sample Condition: Cool <input checked="" type="checkbox"/> Impact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Checked By: <i>[Signature]</i>										Thermometer ID: #113 Correction Factor: -0.60 Standard: <input type="checkbox"/> Backus (only sample condition) Observed Temp. °C: Corrected Temp. °C:									

Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING		TPH 8015M	BTEX 8021B	Chloride SM4500CI-B	
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE		OTHER: ACID/BASE:	ICE / COOL				OTHER:
41 BH-22 (0-1)	G 1	X										X	X	X
42 BH-22 (2-3)	G 1	X										X	X	X
43 BH-22 (3-4)	G 1	X										X	X	X
44 BH-22 (6-7)	G 1	X										X	X	X
45 BH-22 (8-9)	G 1	X										X	X	X
46 BH-22 (14-15)	G 1	X										X	X	X



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 12, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BIG GEORGE STATE #3 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/11/23 11:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: AH - 1 (0-1') (H230145-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.99	99.3	2.00	0.317		
Toluene*	<0.050	0.050	01/11/2023	ND	2.17	108	2.00	0.420		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.12	106	2.00	0.304		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.61	110	6.00	0.0492		
Total BTX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/12/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	172	85.8	200	7.56	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	172	85.9	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: AH - 2 (0-1') (H230145-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.99	99.3	2.00	0.317		
Toluene*	<0.050	0.050	01/11/2023	ND	2.17	108	2.00	0.420		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.12	106	2.00	0.304		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.61	110	6.00	0.0492		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/12/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	172	85.8	200	7.56	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	172	85.9	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: AH - 3 (0-1') (H230145-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.99	99.3	2.00	0.317		
Toluene*	<0.050	0.050	01/11/2023	ND	2.17	108	2.00	0.420		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.12	106	2.00	0.304		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.61	110	6.00	0.0492		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/12/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	172	85.8	200	7.56	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	172	85.9	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: AH - 4 (0-1') (H230145-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.99	99.3	2.00	0.317		
Toluene*	<0.050	0.050	01/11/2023	ND	2.17	108	2.00	0.420		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.12	106	2.00	0.304		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.61	110	6.00	0.0492		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/12/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	172	85.8	200	7.56	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	172	85.9	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: AH - 5 (0-1') (H230145-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.99	99.3	2.00	0.317		
Toluene*	<0.050	0.050	01/11/2023	ND	2.17	108	2.00	0.420		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.12	106	2.00	0.304		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.61	110	6.00	0.0492		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/12/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	193	96.6	200	6.62	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	185	92.6	200	7.76	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: AH - 6 (0-1') (H230145-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.99	99.3	2.00	0.317		
Toluene*	<0.050	0.050	01/11/2023	ND	2.17	108	2.00	0.420		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.12	106	2.00	0.304		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.61	110	6.00	0.0492		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/12/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	193	96.6	200	6.62	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	185	92.6	200	7.76	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: AH - 7 (0-1') (H230145-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.99	99.3	2.00	0.317		
Toluene*	<0.050	0.050	01/11/2023	ND	2.17	108	2.00	0.420		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.12	106	2.00	0.304		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.61	110	6.00	0.0492		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/12/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	193	96.6	200	6.62	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	185	92.6	200	7.76	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NEW MEXICO		

Sample ID: AH - 8 (0-1') (H230145-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.99	99.3	2.00	0.317		
Toluene*	<0.050	0.050	01/11/2023	ND	2.17	108	2.00	0.420		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.12	106	2.00	0.304		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.61	110	6.00	0.0492		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	01/12/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	178	88.9	200	7.34	
DRO >C10-C28*	76.2	10.0	01/11/2023	ND	185	92.4	200	8.29	
EXT DRO >C28-C36	20.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 12, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BIG GEORGE STATE #3 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/11/23 11:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 1 (0-1) (H230146-01)

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	1.99	99.3	2.00	0.317	
Toluene*	<0.050	0.050	01/11/2023	ND	2.17	108	2.00	0.420	
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.12	106	2.00	0.304	
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.61	110	6.00	0.0492	
Total BTX	<0.300	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	01/12/2023	ND	432	108	400	3.64	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	178	88.9	200	7.34	
DRO >C10-C28*	893	10.0	01/11/2023	ND	185	92.4	200	8.29	
EXT DRO >C28-C36	273	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 1 (2-3) (H230146-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.99	99.3	2.00	0.317		
Toluene*	<0.050	0.050	01/11/2023	ND	2.17	108	2.00	0.420		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.12	106	2.00	0.304		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.61	110	6.00	0.0492		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/12/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	178	88.9	200	7.34	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	185	92.4	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 1 (3-4) (H230146-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.99	99.3	2.00	0.317		
Toluene*	<0.050	0.050	01/11/2023	ND	2.17	108	2.00	0.420		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.12	106	2.00	0.304		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.61	110	6.00	0.0492		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/12/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	178	88.9	200	7.34	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	185	92.4	200	8.29	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 1 (4-5) (H230146-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.99	99.3	2.00	0.317		
Toluene*	<0.050	0.050	01/11/2023	ND	2.17	108	2.00	0.420		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.12	106	2.00	0.304		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.61	110	6.00	0.0492		
Total BTX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/12/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	184	92.1	200	2.87	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	180	90.0	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 1 (6-7) (H230146-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.99	99.3	2.00	0.317		
Toluene*	<0.050	0.050	01/11/2023	ND	2.17	108	2.00	0.420		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.12	106	2.00	0.304		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.61	110	6.00	0.0492		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/12/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	184	92.1	200	2.87	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	180	90.0	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 1 (8-9) (H230146-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.99	99.3	2.00	0.317		
Toluene*	<0.050	0.050	01/11/2023	ND	2.17	108	2.00	0.420		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.12	106	2.00	0.304		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.61	110	6.00	0.0492		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/12/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	184	92.1	200	2.87	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	180	90.0	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 1 (14-15) (H230146-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.99	99.3	2.00	0.317		
Toluene*	<0.050	0.050	01/11/2023	ND	2.17	108	2.00	0.420		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.12	106	2.00	0.304		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.61	110	6.00	0.0492		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/12/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	184	92.1	200	2.87	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	180	90.0	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 1 (19-20) (H230146-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.99	99.3	2.00	0.317		
Toluene*	<0.050	0.050	01/11/2023	ND	2.17	108	2.00	0.420		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.12	106	2.00	0.304		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.61	110	6.00	0.0492		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	01/12/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	184	92.1	200	2.87	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	180	90.0	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 1 (24-25) (H230146-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.99	99.3	2.00	0.317		
Toluene*	<0.050	0.050	01/11/2023	ND	2.17	108	2.00	0.420		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.12	106	2.00	0.304		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.61	110	6.00	0.0492		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/12/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	184	92.1	200	2.87	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	180	90.0	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 2 (0-1) (H230146-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.99	99.3	2.00	0.317		
Toluene*	<0.050	0.050	01/11/2023	ND	2.17	108	2.00	0.420		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.12	106	2.00	0.304		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.61	110	6.00	0.0492		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	01/12/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	184	92.1	200	2.87	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	180	90.0	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 2 (2-3) (H230146-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.99	99.3	2.00	0.317		
Toluene*	<0.050	0.050	01/11/2023	ND	2.17	108	2.00	0.420		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.12	106	2.00	0.304		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.61	110	6.00	0.0492		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	01/12/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	184	92.1	200	2.87	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	180	90.0	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 2 (3-4) (H230146-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	1.99	99.3	2.00	0.317		
Toluene*	<0.050	0.050	01/11/2023	ND	2.17	108	2.00	0.420		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.12	106	2.00	0.304		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.61	110	6.00	0.0492		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	01/12/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	184	92.1	200	2.87	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	180	90.0	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 2 (4-5) (H230146-13)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.63		
Toluene*	<0.050	0.050	01/11/2023	ND	2.20	110	2.00	0.172		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.21	111	2.00	1.39		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.67	111	6.00	2.35		
Total BTX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/12/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	184	92.1	200	2.87	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	180	90.0	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 2 (6-7) (H230146-14)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.63		
Toluene*	<0.050	0.050	01/11/2023	ND	2.20	110	2.00	0.172		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.21	111	2.00	1.39		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.67	111	6.00	2.35		
Total BTX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/12/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	184	92.1	200	2.87	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	180	90.0	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/11/2023
 Reported: 01/12/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/11/2023
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: BH - 2 (8-9) (H230146-15)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.63		
Toluene*	<0.050	0.050	01/11/2023	ND	2.20	110	2.00	0.172		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.21	111	2.00	1.39		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.67	111	6.00	2.35		
Total BTX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/12/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	184	92.1	200	2.87	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	180	90.0	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 2 (14-15) (H230146-16)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.63		
Toluene*	<0.050	0.050	01/11/2023	ND	2.20	110	2.00	0.172		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.21	111	2.00	1.39		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.67	111	6.00	2.35		
Total BTX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/12/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	184	92.1	200	2.87	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	180	90.0	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 2 (19-20) (H230146-17)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.63		
Toluene*	<0.050	0.050	01/11/2023	ND	2.20	110	2.00	0.172		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.21	111	2.00	1.39		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.67	111	6.00	2.35		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/12/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	184	92.1	200	2.87	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	180	90.0	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 2 (24-25) (H230146-18)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.63		
Toluene*	<0.050	0.050	01/11/2023	ND	2.20	110	2.00	0.172		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.21	111	2.00	1.39		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.67	111	6.00	2.35		
Total BTX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/12/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	184	92.1	200	2.87	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	180	90.0	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 7 (0-1) (H230146-19)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.63		
Toluene*	<0.050	0.050	01/11/2023	ND	2.20	110	2.00	0.172		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.21	111	2.00	1.39		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.67	111	6.00	2.35		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/12/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	184	92.1	200	2.87		
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	180	90.0	200	11.1		
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND						

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 7 (2-3) (H230146-20)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.63		
Toluene*	<0.050	0.050	01/11/2023	ND	2.20	110	2.00	0.172		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.21	111	2.00	1.39		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.67	111	6.00	2.35		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	01/12/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	184	92.1	200	2.87	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	180	90.0	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 7 (3-4) (H230146-21)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.63		
Toluene*	<0.050	0.050	01/11/2023	ND	2.20	110	2.00	0.172		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.21	111	2.00	1.39		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.67	111	6.00	2.35		
Total BTX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/12/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	184	92.1	200	2.87	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	180	90.0	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 7 (4-5) (H230146-22)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.63		
Toluene*	<0.050	0.050	01/11/2023	ND	2.20	110	2.00	0.172		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.21	111	2.00	1.39		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.67	111	6.00	2.35		
Total BTX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/12/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	184	92.1	200	2.87	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	180	90.0	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 7 (6-7) (H230146-23)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.63		
Toluene*	<0.050	0.050	01/11/2023	ND	2.20	110	2.00	0.172		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.21	111	2.00	1.39		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.67	111	6.00	2.35		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/12/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	184	92.1	200	2.87	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	180	90.0	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 7 (8-9) (H230146-24)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.63		
Toluene*	<0.050	0.050	01/11/2023	ND	2.20	110	2.00	0.172		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.21	111	2.00	1.39		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.67	111	6.00	2.35		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/12/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	197	98.4	200	6.91	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	188	94.1	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 7 (14-15) (H230146-25)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.63		
Toluene*	<0.050	0.050	01/11/2023	ND	2.20	110	2.00	0.172		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.21	111	2.00	1.39		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.67	111	6.00	2.35		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/12/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	197	98.4	200	6.91	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	188	94.1	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 7 (19-20) (H230146-26)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.63		
Toluene*	<0.050	0.050	01/11/2023	ND	2.20	110	2.00	0.172		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.21	111	2.00	1.39		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.67	111	6.00	2.35		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	01/12/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	197	98.4	200	6.91	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	188	94.1	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 7 (24-25) (H230146-27)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.63		
Toluene*	<0.050	0.050	01/11/2023	ND	2.20	110	2.00	0.172		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.21	111	2.00	1.39		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.67	111	6.00	2.35		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/12/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	197	98.4	200	6.91		
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	188	94.1	200	15.8		
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND						

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/11/2023
 Reported: 01/12/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C -MD - 02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/11/2023
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: BH - 7 (29-30) (H230146-28)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.63		
Toluene*	<0.050	0.050	01/11/2023	ND	2.20	110	2.00	0.172		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.21	111	2.00	1.39		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.67	111	6.00	2.35		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/12/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	197	98.4	200	6.91	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	188	94.1	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 8 (0-1) (H230146-29)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.63		
Toluene*	<0.050	0.050	01/11/2023	ND	2.20	110	2.00	0.172		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.21	111	2.00	1.39		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.67	111	6.00	2.35		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/12/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	197	98.4	200	6.91	
DRO >C10-C28*	132	10.0	01/11/2023	ND	188	94.1	200	15.8	
EXT DRO >C28-C36	73.5	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 8 (2-3) (H230146-30)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.63		
Toluene*	<0.050	0.050	01/11/2023	ND	2.20	110	2.00	0.172		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.21	111	2.00	1.39		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.67	111	6.00	2.35		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/12/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	197	98.4	200	6.91	
DRO >C10-C28*	10.7	10.0	01/11/2023	ND	188	94.1	200	15.8	
EXT DRO >C28-C36	11.4	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 8 (3-4) (H230146-31)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.63		
Toluene*	<0.050	0.050	01/11/2023	ND	2.20	110	2.00	0.172		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.21	111	2.00	1.39		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.67	111	6.00	2.35		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/12/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	197	98.4	200	6.91	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	188	94.1	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 8 (4-5) (H230146-32)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.63		
Toluene*	<0.050	0.050	01/11/2023	ND	2.20	110	2.00	0.172		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.21	111	2.00	1.39		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.67	111	6.00	2.35		
Total BTX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/12/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	197	98.4	200	6.91	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	188	94.1	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 8 (6-7) (H230146-33)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.06	103	2.00	0.788		
Toluene*	<0.050	0.050	01/11/2023	ND	2.15	107	2.00	1.17		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.15	108	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.70	112	6.00	2.34		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/12/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	197	98.4	200	6.91	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	188	94.1	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 8 (8-9) (H230146-34)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.06	103	2.00	0.788		
Toluene*	<0.050	0.050	01/11/2023	ND	2.15	107	2.00	1.17		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.15	108	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.70	112	6.00	2.34		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/12/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	197	98.4	200	6.91	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	188	94.1	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 8 (14-15) (H230146-35)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.06	103	2.00	0.788		
Toluene*	<0.050	0.050	01/11/2023	ND	2.15	107	2.00	1.17		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.15	108	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.70	112	6.00	2.34		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	01/12/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	197	98.4	200	6.91	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	188	94.1	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 8 (19-20) (H230146-36)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.06	103	2.00	0.788		
Toluene*	<0.050	0.050	01/11/2023	ND	2.15	107	2.00	1.17		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.15	108	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.70	112	6.00	2.34		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	01/12/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	197	98.4	200	6.91	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	188	94.1	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 8 (24-25) (H230146-37)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.06	103	2.00	0.788		
Toluene*	<0.050	0.050	01/11/2023	ND	2.15	107	2.00	1.17		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.15	108	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.70	112	6.00	2.34		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	01/12/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	197	98.4	200	6.91	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	188	94.1	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 9 (0-1) (H230146-38)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.06	103	2.00	0.788		
Toluene*	<0.050	0.050	01/11/2023	ND	2.15	107	2.00	1.17		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.15	108	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.70	112	6.00	2.34		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	01/12/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	197	98.4	200	6.91	
DRO >C10-C28*	168	10.0	01/12/2023	ND	188	94.1	200	15.8	
EXT DRO >C28-C36	27.3	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 9 (2-3) (H230146-39)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	2.06	103	2.00	0.788	
Toluene*	<0.050	0.050	01/11/2023	ND	2.15	107	2.00	1.17	
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.15	108	2.00	1.46	
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.70	112	6.00	2.34	
Total BTX	<0.300	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/12/2023	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	197	98.4	200	6.91	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	188	94.1	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 9 (3-4) (H230146-40)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.06	103	2.00	0.788		
Toluene*	<0.050	0.050	01/11/2023	ND	2.15	107	2.00	1.17		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.15	108	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.70	112	6.00	2.34		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/12/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	197	98.4	200	6.91	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	188	94.1	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 9 (4-5) (H230146-41)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.06	103	2.00	0.788		
Toluene*	<0.050	0.050	01/11/2023	ND	2.15	107	2.00	1.17		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.15	108	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.70	112	6.00	2.34		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/12/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	197	98.4	200	6.91	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	188	94.1	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 9 (6-7) (H230146-42)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.06	103	2.00	0.788		
Toluene*	<0.050	0.050	01/11/2023	ND	2.15	107	2.00	1.17		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.15	108	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.70	112	6.00	2.34		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/12/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	197	98.4	200	6.91	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	188	94.1	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 9 (8-9) (H230146-43)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	2.06	103	2.00	0.788	
Toluene*	<0.050	0.050	01/11/2023	ND	2.15	107	2.00	1.17	
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.15	108	2.00	1.46	
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.70	112	6.00	2.34	
Total BTEX	<0.300	0.300	01/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/12/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	197	98.4	200	6.91	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	188	94.1	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2023	Sampling Date:	01/11/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C -MD - 02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 9 (14-15) (H230146-44)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2023	ND	2.06	103	2.00	0.788		
Toluene*	<0.050	0.050	01/11/2023	ND	2.15	107	2.00	1.17		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.15	108	2.00	1.46		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.70	112	6.00	2.34		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/12/2023	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	181	90.6	200	8.02	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	192	96.0	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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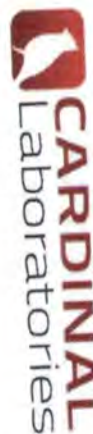
A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech

Project Manager: Christian Lull

Address: 8911 Capital o Texas Hwy, Suite 2310

City: Austin **State:** TX **Zip:** 78750

Phone #: (512)565-0190 **Fax #:**

Project #: 212C-MD-02933, Task 110 **Project Owner:** ConocoPhillips

Project Name: Big George State #3 Release

Project Location: Eddy County, New Mexico

Sampler Name: Colton Bickelstaff

P.O. #:

Company: Tetra Tech

Attn: Christian Lull

Address: EMAIL

City: **State:** **Zip:**

Phone #: **Fax #:**

BILL TO

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500Cl-B
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:							
1130146	BH-7 (3-4)	G	1	X								01/11/2023		X	X	X
21	BH-7 (4-5)	G	1	X								01/11/2023		X	X	X
22	BH-7 (6-7)	G	1	X								01/11/2023		X	X	X
23	BH-7 (8-9)	G	1	X								01/11/2023		X	X	X
24	BH-7 (14-15)	G	1	X								01/11/2023		X	X	X
25	BH-7 (19-20)	G	1	X								01/11/2023		X	X	X
26	BH-7 (24-25)	G	1	X								01/11/2023		X	X	X
27	BH-7 (29-30)	G	1	X								01/11/2023		X	X	X
28	BH-8 (0-1)	G	1	X								01/11/2023		X	X	X
29	BH-8 (2-3)	G	1	X								01/11/2023		X	X	X

Relinquished By: Colton Bickelstaff

Date: 1/11/23 **Received By:** [Signature]

Time: 1:52 **Received By:** [Signature]

Remarks:

Verbal Result: ☐ Yes ☐ No **Add'l Phone #:**

Remarks:

Thermometer Test: ☒ Standard ☐ Backus (only Sample Condition)

Correction Factor: 4.5°C

Observed Temp. °C: 8.5°C **Corrected Temp. °C:** 7.9°C

Sample Condition: ☒ Cool ☐ Hot ☐ Ice ☐ No

Checked By: [Signature] **Initials:** AO



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: Tetra Tech		P.O. #:	
Project Manager: Christian Lull		Company: Tetra Tech	
Address: 8911 Capital o Texas Hwy, Suite 2310		Attn: Christian Lull	
City: Austin State: TX Zip: 78750		Address: EMAIL	
Phone #: (512)565-0190 Fax #:		City: State: Zip:	
Project #: 212C-MD-02933, Task 110 Project Owner: ConocoPhillips		Phone #: Fax #:	
Project Name: Big George State #3 Release		Project Location: Eddy County, New Mexico	
Sampler Name: Colton Bickerstaff		Lab I.D.	

Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500C1-B
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE:							
11230146		1								01/12/2023			X	X	X
41 BH-9 (4-5)		1	X							01/11/2023			X	X	X
42 BH-9 (6-7)		1	X							01/11/2023			X	X	X
43 BH-9 (8-9)		1	X							01/11/2023			X	X	X
44 BH-9 (14-15)		1	X							01/11/2023			X	X	X

Relinquished By: Colton Bickerstaff	Date: 11/11/23	Received By: <i>Colton Bickerstaff</i>	Time: 1:52
Relinquished By:	Date:	Received By:	Time:
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>	
	9.92	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	<i>Colton Bickerstaff</i>
Thermometer ID #113 Correction Factor -0.5°C			
Turnaround Time: Standard <input type="checkbox"/> Cool <input checked="" type="checkbox"/> Backlog <input type="checkbox"/> Observed Temp. °C			
Add'l Phone #:			
Remarks:			

FORM-006 R.12.10/07/21

† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinalhsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 17, 2023

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BIG GEORGE STATE #3 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/16/23 12:14.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/16/2023	Sampling Date:	01/09/2023
Reported:	01/17/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 14 (2-3) (H230210-01)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/16/2023	ND	2.05	102	2.00	5.25		
Toluene*	<0.050	0.050	01/16/2023	ND	2.19	109	2.00	4.29		
Ethylbenzene*	<0.050	0.050	01/16/2023	ND	2.14	107	2.00	5.35		
Total Xylenes*	<0.150	0.150	01/16/2023	ND	6.61	110	6.00	4.99	QR-03	
Total BTEX	<0.300	0.300	01/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	01/16/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2023	ND	201	100	200	7.94	
DRO >C10-C28*	<10.0	10.0	01/17/2023	ND	216	108	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	01/17/2023	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/16/2023
 Reported: 01/17/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C-MD-02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 14 (3-4) (H230210-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/16/2023	ND	2.05	102	2.00	5.25		
Toluene*	<0.050	0.050	01/16/2023	ND	2.19	109	2.00	4.29		
Ethylbenzene*	<0.050	0.050	01/16/2023	ND	2.14	107	2.00	5.35		
Total Xylenes*	<0.150	0.150	01/16/2023	ND	6.61	110	6.00	4.99		
Total BTEx	<0.300	0.300	01/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	01/16/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2023	ND	201	100	200	7.94	
DRO >C10-C28*	<10.0	10.0	01/17/2023	ND	216	108	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	01/17/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/16/2023
 Reported: 01/17/2023
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C-MD-02933, TASK 110
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 15 (2-3) (H230210-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2023	ND	2.05	102	2.00	5.25	
Toluene*	<0.050	0.050	01/16/2023	ND	2.19	109	2.00	4.29	
Ethylbenzene*	<0.050	0.050	01/16/2023	ND	2.14	107	2.00	5.35	
Total Xylenes*	<0.150	0.150	01/16/2023	ND	6.61	110	6.00	4.99	
Total BTEX	<0.300	0.300	01/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	01/16/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2023	ND	201	100	200	7.94	
DRO >C10-C28*	20.6	10.0	01/17/2023	ND	216	108	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	01/17/2023	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/16/2023	Sampling Date:	01/09/2023
Reported:	01/17/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 15 (3-4) (H230210-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/16/2023	ND	2.05	102	2.00	5.25		
Toluene*	<0.050	0.050	01/16/2023	ND	2.19	109	2.00	4.29		
Ethylbenzene*	<0.050	0.050	01/16/2023	ND	2.14	107	2.00	5.35		
Total Xylenes*	<0.150	0.150	01/16/2023	ND	6.61	110	6.00	4.99		
Total BTEx	<0.300	0.300	01/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1620	16.0	01/16/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2023	ND	201	100	200	7.94	
DRO >C10-C28*	<10.0	10.0	01/17/2023	ND	216	108	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	01/17/2023	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/16/2023	Sampling Date:	01/09/2023
Reported:	01/17/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 18 (2-3) (H230210-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/16/2023	ND	2.05	102	2.00	5.25		
Toluene*	<0.050	0.050	01/16/2023	ND	2.19	109	2.00	4.29		
Ethylbenzene*	<0.050	0.050	01/16/2023	ND	2.14	107	2.00	5.35		
Total Xylenes*	<0.150	0.150	01/16/2023	ND	6.61	110	6.00	4.99		
Total BTEx	<0.300	0.300	01/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	01/16/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2023	ND	201	100	200	7.94	
DRO >C10-C28*	<10.0	10.0	01/17/2023	ND	216	108	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	01/17/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/16/2023	Sampling Date:	01/09/2023
Reported:	01/17/2023	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933, TASK 110	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 18 (3-4) (H230210-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/16/2023	ND	2.05	102	2.00	5.25		
Toluene*	<0.050	0.050	01/16/2023	ND	2.19	109	2.00	4.29		
Ethylbenzene*	<0.050	0.050	01/16/2023	ND	2.14	107	2.00	5.35		
Total Xylenes*	<0.150	0.150	01/16/2023	ND	6.61	110	6.00	4.99		
Total BTEx	<0.300	0.300	01/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	01/16/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2023	ND	201	100	200	7.94	
DRO >C10-C28*	<10.0	10.0	01/17/2023	ND	216	108	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	01/17/2023	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

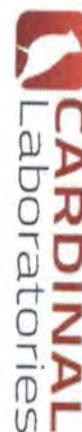
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech

Project Manager: Christian Lull

Address: 8911 Capital o Texas Hwy, Suite 2310

City: Austin

State: TX **Zip:**

Phone #: (512)565-0190 **Fax #:**

Project #: 212C-MD-02933, Task 110 **Project Owner:** ConocoPhillips

Project Name: Big George State #3 Release

Project Location: Eddy County, New Mexico

Sampler Name: Colton Bickerstaff

Lab I.D.:

BILL TO

P.O. #:

Company: Tetra Tech

Attn: Christian Lull

Address: EMAIL

City:

State: **Zip:**

Phone #:

Fax #:

Analysis Request

Sample ID	Container	Matrix	Preserv.	Sampling	TPH 8015M	BTEX 8021B	Chloride SM4500Cl-B	Analysis Request	
								Yes	No
1 BH-14 (2-3)	G 1	X	X	X	X	X	X		
2 BH-14 (3-4)	G 1	X	X	X	X	X	X		
3 BH-15 (2-3)	G 1	X	X	X	X	X	X		
4 BH-15 (3-4)	G 1	X	X	X	X	X	X		
5 BH-18 (2-3)	G 1	X	X	X	X	X	X		
6 BH-18 (3-4)	G 1	X	X	X	X	X	X		

Relinquished By: Colton Bickerstaff

Date: 1/16/23

Received By: [Signature]

Date: 1/21/23

Time:

Observed Temp. °C: 3.5

Corrected Temp. °C: 2.9

Sample Condition: Cool ☒ Ice ☐ ☐ No

CHECKED BY: [Signature]

Remarks:

Verbal Result: ☐ Yes ☐ No **Addt Phone #:**

All Results are emailed. Please provide Email address:

Thermometer ID #113

Correction Factor: -0.5°C

Observed Temp. °C: 24.1

Corrected Temp. °C:

FORM-006 R 3.2 10/07/21



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Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Page 1 of 1

Company Name: <u>Covaco Phillips</u>				BILL TO				ANALYSIS REQUEST																				
Project Manager: <u>Christian Hull</u>				P.O. #:																								
Address: <u>christian.hull@tetratech.com</u>				Company: <u>Tetra Tech</u>																								
City: _____ State: _____ Zip: _____				Attn: <u>Christian Hull</u>																								
Phone #: _____ Fax #: <u>NA</u>				Address: _____																								
Project #: <u>212C-MD-02933</u> Project Owner: _____				City: _____																								
Project Name: <u>BIG GEORGE STATE #3</u>				State: _____ Zip: _____																								
Project Location: <u>Eddy County, New Mexico</u>				Phone #: _____																								
Sampler Name: <u>Joe Tyler</u>				Fax #: _____																								
FOR LAB USE ONLY		G/RAB OR (C)OMP.		MATRIX				PRESERV.		SAMPLING																		
Lab I.D.	Sample I.D.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH	BTEX	Chlorides	Hold											
<u>4233166</u>																												
<u>1</u>	<u>BH-12R (0'-1')</u>	<u>G</u>	<u>1</u>			<u>X</u>				<u>X</u>		<u>6-19</u>	<u>1100</u>	<u>x</u>	<u>x</u>	<u>x</u>												
<u>2</u>	<u>BH-12R (1'-2')</u>												<u>1110</u>															
<u>3</u>	<u>BH-12R (2'-3')</u>												<u>1120</u>															
<u>4</u>	<u>BH-12R (3'-4')</u>												<u>1140</u>															
<u>5</u>	<u>BH-12R (4'-5')</u>												<u>1200</u>															
<u>6</u>	<u>BH-12R (5'-6')</u>												<u>1220</u>															
<u>7</u>	<u>BH-12R (6'-7')</u>												<u>1240</u>															
<u>8</u>	<u>BH-12R (7'-8')</u>												<u>1300</u>															
<u>9</u>	<u>BH-12R (8'-9')</u>												<u>1320</u>															
<u>10</u>	<u>BH-12R (9'-10')</u>												<u>1340</u>															

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Relinquished By: <u>Joe Tyler</u>	Date: <u>6-19-23</u>	Received By: <u>Shawn Cisneros</u>	Phone Results: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: <u>11:10</u>		Fax Results: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	Email Results to:	
	Time:		<u>Christian Hull</u>	
			<u>Rush</u>	
			<u>JHT</u>	

Delivered By: (Circle One) <input checked="" type="radio"/> Sampler - UPS <input type="radio"/> Bus <input type="radio"/> Other:	<u>2.8</u> <u>2.2 #113</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) <u>[Signature]</u>
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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 10, 2024

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BIG GEORGE STATE #3 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/09/24 14:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 A (0-1') (H240084-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	3.01	
Toluene*	<0.050	0.050	01/09/2024	ND	2.16	108	2.00	2.67	
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.17	108	2.00	3.11	
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.44	107	6.00	3.24	
Total BTEX	<0.300	0.300	01/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/10/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	185	92.6	200	2.55	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	171	85.6	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 A (1'-2') (H240084-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	3.01		
Toluene*	<0.050	0.050	01/09/2024	ND	2.16	108	2.00	2.67		
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.17	108	2.00	3.11		
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.44	107	6.00	3.24		
Total BTEX	<0.300	0.300	01/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/10/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	185	92.6	200	2.55	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	171	85.6	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/09/2024
 Reported: 01/10/2024
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C-MD-02933
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 12 - 24 A (2'-3') (H240084-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	3.01	
Toluene*	<0.050	0.050	01/09/2024	ND	2.16	108	2.00	2.67	
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.17	108	2.00	3.11	
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.44	107	6.00	3.24	
Total BTEX	<0.300	0.300	01/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/10/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	185	92.6	200	2.55	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	171	85.6	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 A (3'-4') (H240084-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	3.01		
Toluene*	<0.050	0.050	01/09/2024	ND	2.16	108	2.00	2.67		
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.17	108	2.00	3.11		
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.44	107	6.00	3.24		
Total BTEX	<0.300	0.300	01/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/10/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	185	92.6	200	2.55	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	171	85.6	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 A (4'-5') (H240084-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	3.01		
Toluene*	<0.050	0.050	01/09/2024	ND	2.16	108	2.00	2.67		
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.17	108	2.00	3.11		
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.44	107	6.00	3.24		
Total BTEX	<0.300	0.300	01/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/10/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	185	92.6	200	2.55	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	171	85.6	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 A (5'-6') (H240084-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	3.01		
Toluene*	<0.050	0.050	01/09/2024	ND	2.16	108	2.00	2.67		
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.17	108	2.00	3.11		
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.44	107	6.00	3.24		
Total BTEx	<0.300	0.300	01/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/10/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	185	92.6	200	2.55	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	171	85.6	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/09/2024
 Reported: 01/10/2024
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C-MD-02933
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 12 - 24 A (6'-7') (H240084-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	3.01	
Toluene*	<0.050	0.050	01/09/2024	ND	2.16	108	2.00	2.67	
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.17	108	2.00	3.11	
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.44	107	6.00	3.24	
Total BTEX	<0.300	0.300	01/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/10/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	185	92.6	200	2.55	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	171	85.6	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 A (7'-8') (H240084-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	3.01		
Toluene*	<0.050	0.050	01/09/2024	ND	2.16	108	2.00	2.67		
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.17	108	2.00	3.11		
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.44	107	6.00	3.24		
Total BTEx	<0.300	0.300	01/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/10/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	185	92.6	200	2.55	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	171	85.6	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 76.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/09/2024
 Reported: 01/10/2024
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C-MD-02933
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 12 - 24 A (8'-9') (H240084-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	3.01		
Toluene*	<0.050	0.050	01/09/2024	ND	2.16	108	2.00	2.67		
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.17	108	2.00	3.11		
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.44	107	6.00	3.24		
Total BTEX	<0.300	0.300	01/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/10/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	185	92.6	200	2.55	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	171	85.6	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 79.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 A (9'-10') (H240084-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	3.01		
Toluene*	<0.050	0.050	01/09/2024	ND	2.16	108	2.00	2.67		
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.17	108	2.00	3.11		
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.44	107	6.00	3.24		
Total BTEX	<0.300	0.300	01/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/10/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	185	92.6	200	2.55	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	171	85.6	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 B (0-1') (H240084-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	3.01		
Toluene*	<0.050	0.050	01/09/2024	ND	2.16	108	2.00	2.67		
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.17	108	2.00	3.11		
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.44	107	6.00	3.24		
Total BTEX	<0.300	0.300	01/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/10/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	185	92.6	200	2.55	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	171	85.6	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 79.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 B (1'-2') (H240084-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	3.01		
Toluene*	<0.050	0.050	01/09/2024	ND	2.16	108	2.00	2.67		
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.17	108	2.00	3.11		
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.44	107	6.00	3.24		
Total BTEX	<0.300	0.300	01/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	01/10/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	185	92.6	200	2.55	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	171	85.6	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 71.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 B (2'-3') (H240084-13)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	3.01		
Toluene*	<0.050	0.050	01/09/2024	ND	2.16	108	2.00	2.67		
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.17	108	2.00	3.11		
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.44	107	6.00	3.24		
Total BTEX	<0.300	0.300	01/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	01/10/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	185	92.6	200	2.55	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	171	85.6	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 B (3'-4') (H240084-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	3.01		
Toluene*	<0.050	0.050	01/09/2024	ND	2.16	108	2.00	2.67		
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.17	108	2.00	3.11		
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.44	107	6.00	3.24		
Total BTEX	<0.300	0.300	01/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	01/10/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	185	92.6	200	2.55	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	171	85.6	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 76.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 B (4'-5') (H240084-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	3.01		
Toluene*	<0.050	0.050	01/09/2024	ND	2.16	108	2.00	2.67		
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.17	108	2.00	3.11		
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.44	107	6.00	3.24		
Total BTEX	<0.300	0.300	01/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	01/10/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	185	92.6	200	2.55	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	171	85.6	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 B (5'-6') (H240084-16)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	3.01		
Toluene*	<0.050	0.050	01/09/2024	ND	2.16	108	2.00	2.67		
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.17	108	2.00	3.11		
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.44	107	6.00	3.24		
Total BTEX	<0.300	0.300	01/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	01/10/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	185	92.6	200	2.55	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	171	85.6	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 B (6'-7') (H240084-17)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	3.01		
Toluene*	<0.050	0.050	01/09/2024	ND	2.16	108	2.00	2.67		
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.17	108	2.00	3.11		
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.44	107	6.00	3.24		
Total BTEX	<0.300	0.300	01/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	01/10/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	185	92.6	200	2.55	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	171	85.6	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 75.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 B (7'-8') (H240084-18)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	3.01	
Toluene*	<0.050	0.050	01/09/2024	ND	2.16	108	2.00	2.67	
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.17	108	2.00	3.11	
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.44	107	6.00	3.24	
Total BTEX	<0.300	0.300	01/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/10/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	185	92.6	200	2.55	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	171	85.6	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 B (8'-9') (H240084-19)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2024	ND	2.18	109	2.00	2.06		
Toluene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	2.13		
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.12	106	2.00	2.51		
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.19	103	6.00	2.31		
Total BTEX	<0.300	0.300	01/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	01/10/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	185	92.6	200	2.55	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	171	85.6	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 63.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/09/2024
 Reported: 01/10/2024
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C-MD-02933
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 12 - 24 B (9'-10') (H240084-20)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2024	ND	2.18	109	2.00	2.06	
Toluene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	2.13	
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.12	106	2.00	2.51	
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.19	103	6.00	2.31	
Total BTEX	<0.300	0.300	01/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/10/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	185	92.6	200	2.55	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	171	85.6	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 70.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.0 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/09/2024
 Reported: 01/10/2024
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C-MD-02933
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 12 - 24 C (0-1') (H240084-21)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2024	ND	2.18	109	2.00	2.06	
Toluene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	2.13	
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.12	106	2.00	2.51	
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.19	103	6.00	2.31	
Total BTEX	<0.300	0.300	01/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/10/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	197	98.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	179	89.4	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 74.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 C (1'-2') (H240084-22)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2024	ND	2.18	109	2.00	2.06		
Toluene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	2.13		
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.12	106	2.00	2.51		
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.19	103	6.00	2.31		
Total BTEX	<0.300	0.300	01/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/10/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	197	98.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	179	89.4	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 68.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.0 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/09/2024
 Reported: 01/10/2024
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C-MD-02933
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 12 - 24 C (2'-3') (H240084-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2024	ND	2.18	109	2.00	2.06	
Toluene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	2.13	
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.12	106	2.00	2.51	
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.19	103	6.00	2.31	
Total BTEX	<0.300	0.300	01/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/10/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	197	98.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	179	89.4	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 C (3'-4') (H240084-24)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2024	ND	2.18	109	2.00	2.06		
Toluene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	2.13		
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.12	106	2.00	2.51		
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.19	103	6.00	2.31		
Total BTEX	<0.300	0.300	01/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	01/10/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	197	98.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	179	89.4	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 70.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 C (4'-5') (H240084-25)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2024	ND	2.18	109	2.00	2.06		
Toluene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	2.13		
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.12	106	2.00	2.51		
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.19	103	6.00	2.31		
Total BTEX	<0.300	0.300	01/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/10/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	197	98.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	179	89.4	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 74.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.0 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/09/2024
 Reported: 01/10/2024
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C-MD-02933
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 12 - 24 C (5'-6') (H240084-26)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2024	ND	2.18	109	2.00	2.06	
Toluene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	2.13	
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.12	106	2.00	2.51	
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.19	103	6.00	2.31	
Total BTEX	<0.300	0.300	01/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/10/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	197	98.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	179	89.4	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 70.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.6 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 C (6'-7') (H240084-27)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2024	ND	2.18	109	2.00	2.06	
Toluene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	2.13	
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.12	106	2.00	2.51	
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.19	103	6.00	2.31	
Total BTEX	<0.300	0.300	01/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/10/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	197	98.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	179	89.4	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 C (7'-8') (H240084-28)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2024	ND	2.18	109	2.00	2.06	
Toluene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	2.13	
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.12	106	2.00	2.51	
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.19	103	6.00	2.31	
Total BTEX	<0.300	0.300	01/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/10/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	197	98.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	179	89.4	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 72.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 C (8'-9') (H240084-29)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2024	ND	2.18	109	2.00	2.06		
Toluene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	2.13		
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.12	106	2.00	2.51		
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.19	103	6.00	2.31		
Total BTEX	<0.300	0.300	01/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/10/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	197	98.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	179	89.4	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 69.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 C (9'-10') (H240084-30)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2024	ND	2.18	109	2.00	2.06		
Toluene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	2.13		
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.12	106	2.00	2.51		
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.19	103	6.00	2.31		
Total BTEX	<0.300	0.300	01/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	01/10/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	197	98.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	179	89.4	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 60.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 55.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/09/2024
 Reported: 01/10/2024
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C-MD-02933
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 12 - 24 D (0-1') (H240084-31)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2024	ND	2.18	109	2.00	2.06	
Toluene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	2.13	
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.12	106	2.00	2.51	
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.19	103	6.00	2.31	
Total BTEX	<0.300	0.300	01/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/10/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	197	98.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	179	89.4	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 71.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 D (1'-2') (H240084-32)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2024	ND	2.18	109	2.00	2.06	
Toluene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	2.13	
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.12	106	2.00	2.51	
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.19	103	6.00	2.31	
Total BTEX	<0.300	0.300	01/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/10/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	197	98.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	179	89.4	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 72.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/09/2024
 Reported: 01/10/2024
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C-MD-02933
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 12 - 24 D (2'-3') (H240084-33)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2024	ND	2.18	109	2.00	2.06	
Toluene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	2.13	
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.12	106	2.00	2.51	
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.19	103	6.00	2.31	
Total BTEX	<0.300	0.300	01/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/10/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	197	98.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	179	89.4	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 67.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 D (3'-4') (H240084-34)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2024	ND	2.18	109	2.00	2.06	
Toluene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	2.13	
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.12	106	2.00	2.51	
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.19	103	6.00	2.31	
Total BTEX	<0.300	0.300	01/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	01/10/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	197	98.5	200	3.97		
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	179	89.4	200	7.75		
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND						

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 D (4'-5') (H240084-35)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2024	ND	2.18	109	2.00	2.06		
Toluene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	2.13		
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.12	106	2.00	2.51		
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.19	103	6.00	2.31		
Total BTEX	<0.300	0.300	01/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	01/10/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	197	98.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	179	89.4	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 69.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/09/2024
 Reported: 01/10/2024
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C-MD-02933
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 12 - 24 D (5'-6') (H240084-36)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2024	ND	2.18	109	2.00	2.06		
Toluene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	2.13		
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.12	106	2.00	2.51		
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.19	103	6.00	2.31		
Total BTEX	<0.300	0.300	01/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	01/10/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2024	ND	197	98.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	01/09/2024	ND	179	89.4	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	01/09/2024	ND					

Surrogate: 1-Chlorooctane 72.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 01/09/2024
 Reported: 01/10/2024
 Project Name: BIG GEORGE STATE #3 RELEASE
 Project Number: 212C-MD-02933
 Project Location: COP - EDDY COUNTY, NEW MEXICO

Sampling Date: 01/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BH - 12 - 24 D (6'-7') (H240084-37)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2024	ND	2.18	109	2.00	2.06	
Toluene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	2.13	
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.12	106	2.00	2.51	
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.19	103	6.00	2.31	
Total BTEX	<0.300	0.300	01/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/10/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	197	98.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	179	89.4	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 76.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.1 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 D (7'-8') (H240084-38)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2024	ND	2.18	109	2.00	2.06		
Toluene*	<0.050	0.050	01/09/2024	ND	2.14	107	2.00	2.13		
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.12	106	2.00	2.51		
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.19	103	6.00	2.31		
Total BTEX	<0.300	0.300	01/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	01/10/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	197	98.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	179	89.4	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.7 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 D (8'-9') (H240084-39)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2024	ND	2.27	113	2.00	2.33	
Toluene*	<0.050	0.050	01/09/2024	ND	2.27	114	2.00	1.71	
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.26	113	2.00	1.66	
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.84	114	6.00	1.49	
Total BTEX	<0.300	0.300	01/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/10/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	197	98.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	179	89.4	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.0 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/09/2024	Sampling Date:	01/09/2024
Reported:	01/10/2024	Sampling Type:	Soil
Project Name:	BIG GEORGE STATE #3 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02933	Sample Received By:	Tamara Oldaker
Project Location:	COP - EDDY COUNTY, NEW MEXICO		

Sample ID: BH - 12 - 24 D (9'-10') (H240084-40)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2024	ND	2.27	113	2.00	2.33	
Toluene*	<0.050	0.050	01/09/2024	ND	2.27	114	2.00	1.71	
Ethylbenzene*	<0.050	0.050	01/09/2024	ND	2.26	113	2.00	1.66	
Total Xylenes*	<0.150	0.150	01/09/2024	ND	6.84	114	6.00	1.49	
Total BTEX	<0.300	0.300	01/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/10/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	197	98.5	200	3.97	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	179	89.4	200	7.75	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148

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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

[illegible]



ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2478

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tetra Tech

Project Manager: Christian Lluil

Address: 8911 Capital o Texas Hwy, Suite 2310

City: Austin

Phone #: (512)565-0190

Project #: 212C-MD-02933

Project Name: Big George State #3 Release

Project Location: Eddy County, New Mexico

Sampler Name: Colton Bickerstaff

Lab I.D.

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

P.O. #:

Company: Tetra Tech

Attn: Christian Lluil

Address: EMAIL

City:

State:

Zip:

Phone #:

Fax #:

BILL TO

ANALYSIS REQUEST

Sample I.D.

31 BH-12-24D (0-1')

32 BH-12-24D (1-2')

33 BH-12-24D (2-3')

34 BH-12-24D (3-4')

35 BH-12-24D (4-5')

36 BH-12-24D (5-6')

37 BH-12-24D (6-7')

38 BH-12-24D (7-8')

39 BH-12-24D (8-9')

40 BH-12-24D (9-10')

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH 8015M

BTEX 8021B

Chloride SM4500Cl-B

Relinquished By: Colton Bickerstaff

Received By: *Christian Lluil*

Time: 10/9/24

Date: 10/9/24

Time: 14:47

Date: 10/9/24

Time:

Date:

Time:

Date:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Code Intact

Yes ☒ No ☐

Checked BY: (Initials)

Turnaround Time: *4140*

Thermometer ID: *4140*

Correction Factor: *0.19/24*

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

REMARKS: 24hr. RUSH TAT on ALL samples

FORM-006 R 3.2 10/07/21

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Released to Imaging: 6/21/2024 10:37:02 AM

APPENDIX G

NMSLO Seed Mixture


Custom Soil Resource Report Soil Map



Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)


Soils


 Soil Map Unit Polygons


 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot


 Sinkhole

 Slide or Slip

 Sodic Spot

 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

Water Features

 Streams and Canals

Transportation

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 19, Sep 7, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Custom Soil Resource Report

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
SG	Simona gravelly fine sandy loam, 0 to 3 percent slopes	0.0	6.5%
SM	Simona-Bippus complex, 0 to 5 percent slopes	0.5	93.5%
Totals for Area of Interest		0.5	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

Custom Soil Resource Report

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Custom Soil Resource Report

Eddy Area, New Mexico**SG—Simona gravelly fine sandy loam, 0 to 3 percent slopes****Map Unit Setting**

National map unit symbol: 1w5w
Elevation: 2,750 to 5,000 feet
Mean annual precipitation: 8 to 16 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 180 to 230 days
Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 95 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Simona**Setting**

Landform: Plains, alluvial fans
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 19 inches: gravelly fine sandy loam
H2 - 19 to 23 inches: indurated

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 2.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Minor Components**Simona**

Percent of map unit: 4 percent

Custom Soil Resource Report

*Ecological site: R070BD002NM - Shallow Sandy**Hydric soil rating: No***Playa***Percent of map unit: 1 percent**Landform: Playas**Landform position (three-dimensional): Talf**Down-slope shape: Concave, convex**Across-slope shape: Concave, linear**Ecological site: R070BC017NM - Bottomland**Hydric soil rating: Yes***SM—Simona-Bippus complex, 0 to 5 percent slopes****Map Unit Setting***National map unit symbol: 1w5x**Elevation: 1,800 to 5,000 feet**Mean annual precipitation: 8 to 24 inches**Mean annual air temperature: 57 to 70 degrees F**Frost-free period: 180 to 230 days**Farmland classification: Not prime farmland***Map Unit Composition***Simona and similar soils: 55 percent**Bippus and similar soils: 30 percent**Minor components: 15 percent**Estimates are based on observations, descriptions, and transects of the mapunit.***Description of Simona****Setting***Landform: Plains, alluvial fans**Landform position (three-dimensional): Rise**Down-slope shape: Convex, linear**Across-slope shape: Linear**Parent material: Mixed alluvium and/or eolian sands***Typical profile***H1 - 0 to 19 inches: gravelly fine sandy loam**H2 - 19 to 23 inches: indurated***Properties and qualities***Slope: 0 to 3 percent**Depth to restrictive feature: 7 to 20 inches to petrocalcic**Drainage class: Well drained**Runoff class: Very high**Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)**Depth to water table: More than 80 inches**Frequency of flooding: None**Frequency of ponding: None*

Custom Soil Resource Report

Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 2.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Description of Bippus**Setting**

Landform: Flood plains, alluvial fans
Landform position (three-dimensional): Talf, rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Mixed alluvium

Typical profile

H1 - 0 to 37 inches: silty clay loam
H2 - 37 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: B
Ecological site: R070BC017NM - Bottomland
Hydric soil rating: No

Minor Components**Simona**

Percent of map unit: 8 percent
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Bippus

Percent of map unit: 7 percent
Ecological site: R070BC017NM - Bottomland
Hydric soil rating: No

Custom Soil Resource Report

References

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Custom Soil Resource Report

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SLO Seed Mix

SM Series

1 REVEGETATION PLANS

The following Revegetation Plans were developed for revegetation of sites in southeastern New Mexico. To determine which revegetation plan is appropriate follow procedures in the section titled Determining the Revegetation Plan.

Revegetation Plans contain seed mixtures, as well as seed bed preparation and planting requirements. The detailed instructions for seedbed preparation and planting can be found in the section Revegetation Techniques.

Table 3 - Revegetation Plans, Codes, and Soil Types for Southeastern New Mexico

REVEGETATION PLANS	CODE	SOIL TEXTURES
Clay	C	Clay, Silty Clay, Stony Silty Clay, Clay Loam, Silty Clay Loam (including saline and sodic Clay soils)
Loam	L	Silty Loam, Cobbly Silt Loam, Stony Silt Loam, Silt, Loam, Sandy, Clay Loam
Sandy Loam	SL	Very Fine Sandy Loam, Fine Sandy Loam, Cobbly Fine Sandy Loam, Sandy Loam, Cobbly Sandy Loam, Gravelly Fine Sandy Loam, Very Gravelly Fine Sand Loam, Stony Fine Sandy Loam, Stony Sandy Loam
Shallow	SH	Rocky Loam, Cobbly Loam
Course	CS	Gravelly Loam, very Gravelly Loam, Gravelly Sandy Loam, Very Gravelly Sandy Loam, Stony Loam, Stony Sandy Loam
Sandy	S	Loamy Fine Sand, Loam Sand, Very Gravelly Loamy Fine Sand
Blow Sand	BS	Fine Sand, Sand, Coarse Sand
Mountain Meadow	MM	Clay, Loam
Mountain Upland	MU	Clay Loam, Loam



NMSLO Seed Mix**Sandy Loam (SL)****SANDY LOAM (SL) SITES SEED MIXTURE:**

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Galleta grass	Viva, VNS, So.	2.5	F
Little bluestem	Cimmaron, Pastura	2.5	F
Blue grama	Hachita, Lovington	2.0	D
Sideoats grama	Vaughn, El Reno	2.0	F
Sand dropseed	VNS, Southern	1.0	S
Forbs:			
Indian blanketflower	VNS, Southern	1.0	D
Parry penstemon	VNS, Southern	1.0	D
Blue flax	Appar	1.0	D
Desert globemallow	VNS, Southern	1.0	D
Shrubs:			
Fourwing saltbush	VNS, Southern	2.0	D
Common winterfat	VNS, Southern	1.0	F
Apache plume	VNS, Southern	0.75	F
Total PLS/acre		17.75	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

- VNS, Southern – No Variety Stated, seed should be from a southern latitude collection of this species.
- Double above seed rates for broadcast or hydroseeding.
- If Parry penstemon is not available, substitute firecracker penstemon.
- If desert globemallow is not available, substitute scarlet globemallow or Nelson globemallow.
- If a species is not available, provide a suggested substitute to the New Mexico Land Office for approval. Increasing all other species proportionately may be acceptable.



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QUESTIONS

Action 355638

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	355638
Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nMLB1122858011
Incident Name	NMLB1122858011 BIG GEORGE STATE #003 @ 30-015-28759
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-28759] BIG GEORGE STATE #003

Location of Release Source	
Please answer all the questions in this group.	
Site Name	BIG GEORGE STATE #003
Date Release Discovered	07/27/2011
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. Water Tank Produced Water Released: 50 BBL Recovered: 45 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 355638

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
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Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Christian LLuLL Title: Project Manager Email: christian.llull@tetrattech.com Date: 06/18/2024
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QUESTIONS, Page 3

Action 355638

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	355638
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Attached Document
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	20000
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	4041
GRO+DRO	(EPA SW-846 Method 8015M)	3400
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	10/21/2024
On what date will (or did) the final sampling or liner inspection occur	10/22/2024
On what date will (or was) the remediation complete(d)	10/25/2024
What is the estimated surface area (in square feet) that will be reclaimed	4481
What is the estimated volume (in cubic yards) that will be reclaimed	445
What is the estimated surface area (in square feet) that will be remediated	4481
What is the estimated volume (in cubic yards) that will be remediated	445

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 355638

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:	229137
	Action Number:	355638
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Christian LLuLL Title: Project Manager Email: christian.llull@tetrattech.com Date: 06/18/2024
--	--

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 355638

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 355638
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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Action 355638

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	355638
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 355638

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	355638
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation plan approved. A complete and accurate closure and reclamation report will need to be submitted through the OCD Permitting website by 9/21/2024.	6/21/2024
bhall	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	6/21/2024
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	6/21/2024