From:	Hall, Brittany, EMNRD
To:	Barnhill, Amy
Subject:	RE: [EXTERNAL] Amoco Federal 11 CTB - Post-Excavation Sampling Plan
Date:	Thursday, December 19, 2024 8:01:00 AM

#### Good morning Amy,

The sampling plan is approved. A copy of the sampling plan and this email thread will be uploaded to the incident file. The new due date for a complete and accurate report (either a complete remediation closure report or remediation plan, which ever is applicable), is due by 2/28/2025.

#### 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/

<u>Effective 12/1/2024</u>: OCD has updated guidance on karst potential occurrence zones. This notice can be found at: <u>https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/</u> under "2024 OCD ANNOUNCEMENTS AND NOTIFICATIONS".

The Digital C-141 guidance documents can be found at <u>https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/</u> or <u>https://www.emnrd.nm.gov/ocd/ocd-forms/</u>.

From: Barnhill, Amy <ABarnhill@chevron.com>
Sent: Wednesday, December 18, 2024 9:12 AM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Subject: [EXTERNAL] Amoco Federal 11 CTB - Post-Excavation Sampling Plan

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

Hello Brittany,

Please find attached the finalized *Amoco Federal 11 CTB Post-Excavation Sampling Plan* for approval by the OCD. The final plan addresses the OCDs comments on the draft plan as discussed during our call with the OCD on 12/13/24.

We are hoping to get the drilling permit requests submitted to the State before the holidays pending getting BLM approval back in time.

Let me know if you need anything else.

Thank you, Amy Barnhill Environmental Specialist 2 Tel +1 432 687 7108 Mobile +1 432 940 8524 ABarnhill@chevron.com

## **Mid-Continent Business Unit**

Chevron North America Exploration and Production Company



Amoco Federal 11 CTB New Mexico Oil Conservation Division (NMOCD) Incident ID No. nAPP2216547154

Prepared for: Chevron Mid-Continent Business Unit (MCBU)

Prepared by: AECOM Technical Services, Inc. 13355 Noel Road, Suite 400 Dallas, TX 75240

December 18, 2024

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### Prepared for:

Chevron Mid-Continent Business Unit (MCBU)

Prepared by:

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## 1. Introduction

On behalf of Chevron Mid-Continent Business Unit (MCBU), AECOM Technical Services, Inc. (AECOM) has prepared this *Post-Excavation Sampling Plan* to present the proposed sampling plan subsequent to the remediation excavation activities conducted from July through September 2024. The remedial activities were conducted to address soil impacts resulting from a produced water release that occurred at the Amoco Federal 11 Central Tank Battery (CTB) spill site in Eddy County, New Mexico (the "Site") in June 2022, as well as other historical impacts that were encountered during delineation of the June 2022 release.

An initial closure report, documenting the remedial excavation activities and confirmation sampling, was submitted to the New Mexico Oil Conservation Division (OCD) on September 30, 2024. The OCD subsequently rejected the *Application for administrative approval of a release notification and corrective action* (C-141) on October 2, 2024, and based on comments received, additional post-excavation sampling is needed to satisfy the requirements of the OCD. A copy of the OCD rejection email is provided in **Appendix A**.

## 2. Site Setting and Background

The Site is located at Latitude 32.31808478° North, Longitude 104.05284149° West, in Eddy County, New Mexico (**Figure 1**). Site features include a caliche pad, product flow lines, electrical service lines, and an active tank battery and heater-treater battery along the western and southern portions of the pad, respectively. A former oil well with pump jack was located in the central portion of the pad and was plugged and abandoned between late May and mid July 2024. The Site is located on U.S. Bureau of Land Management (BLM) land.

Operations near the Site are for oil and gas exploration, development, production, and storage. The Site is surrounded by other active and inactive well pads to the north, south, east, and west. The Pecos River is located approximately 940 feet west of the western edge of the well pad. New Mexico Salt and Minerals Corporation is located approximately 1.5 miles to the southeast of the Site. No sensitive environmental and/or ecological receptors were identified within the search criteria distances described in 19.15.29.11 and 19.15.29.12.C.(4) New Mexico Administrative Code (NMAC).

## 2.1 Initial Hydrocarbon Release

On June 3, 2022, a release was discovered at the Site, which included approximately 1.6 barrels (bbls) of crude oil and 4.7 bbls of produced water. The release was reported to have occurred when a two-phase liquid sump became plugged and prevented flow, causing the vessel to overflow. One bbl of crude oil was reported to have been recovered from the release area.

A Release Notification C-141 Form, dated June 14, 2022, was submitted to the NMOCD. The C-141 Form documents the responsible party, location of the release source, nature, and volume of the release, and initial response to the release. The NMOCD assigned Incident ID # nAPP2216547154 to the Site release. The original C-141 Form is provided in **Appendix A**.

It is noted that the above reported release was considered a minor release (<25 bbls) with a relatively small footprint. Based on the chloride delineation sampling results and age of the well pad, it is evident that historical impacts, which occurred prior to Chevron's purchase of this asset, were encountered while attempting to delineate the 2022 release.

## 2.2 Soil Assessment and Delineation History

The following soil assessment and delineation activities have been conducted at the Site:

- On August 23, 2022, initial soil assessment activities were conducted at the Site, which included drilling and sampling of ten hand auger borings (B-1 through B-10) to depths of 3 to 4 feet bgs. Soil samples were collected at 1-foot intervals from each of the borings and field-screened using a photoionization detector (PID) to measure volatile organic vapor concentrations. Soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8021B, total petroleum hydrocarbons (TPH) by EPA Method 8015 NM, and chloride by EPA Method 300.0.
- In **November 2022**, soil delineation samples were collected from ten borings (DB-1 through DB-10) that were drilled to depths ranging from 4 to 10 feet bgs using a combination of hand auger and direct-push drilling and sampling equipment. Soil samples from select borings and depth intervals were submitted for laboratory analysis of chloride and TPH using the methods described above.
- In February 2023, borings DB-11 through DB-19 were drilled using air rotary drilling equipment and soil samples were collected for additional horizontal and vertical delineation of chloride-impacted soil.
- In **March 2023**, hand auger borings DB-15A through DB-15C and DB-17A through DB-17C were drilled and sampled to depths of 1 to 2 feet bgs for horizontal delineation of elevated chloride concentrations in shallow soil.
- On **April 17, 2024**, six additional horizontal step-out hand auger borings (DB-19A through 19C and DB-20A through 20C) were advanced to 1 to 2 feet bgs, at locations north and northeast of the previous sample locations and estimated footprint of impacted soil.
- On **April 23, 2024**, two additional horizontal step-out sample locations (DB-19D and DB-20D) were sampled off the edge of the Amoco pad to the north and northeast.
- On May 28-30, 2024, one additional deeper soil boring (DB-19/MW-1) was advanced to a total depth of 46 feet bgs to confirm the presence/absence of groundwater within the upper 51 feet of soils underlying the Site. Soil samples were collected in DB-19/MW-1 at 2-foot intervals from 10 to 18 feet bgs, and chloride was not reported greater than 600 ppm from at least 16 feet bgs. A temporary monitoring well (MW-1) was installed as a flush-mount well with 2-inch diameter polyvinyl chloride (PVC) casing and factory-slotted screen from 30 to 45 feet bgs. Groundwater was encountered at approximately 33 feet bgs during drilling of the monitoring well borehole. Following installation of the monitoring well, groundwater was observed at approximately 27.5 feet bgs, indicating that the water bearing unit appears to occur under confined conditions. Groundwater samples were not collected from MW-1 as groundwater is separated by at least 15 feet of soil beyond the deepest chloride exceedance, including clay between 22 to 26 and 30 to 33 feet bgs. The monitoring well was subsequently plugged and abandoned on July 17, 2024. The soil boring and well construction log is included in Appendix B along with the laboratory analytical report.

The soil assessment and delineation activities were documented in the *Delineation Report and Remediation Plan*, dated August 23, 2023, and the *Revised Delineation Report and Remediation Plan*, dated April 29, 2024. The locations of soil borings advanced at the Site from August 2022 through May 2024 are shown on **Figure 2**, and the analytical results from the delineation sampling events described above are presented on **Figure 3A** (TPH) and **Figure 3B** (Chloride). Benzene and BTEX results were below the regulatory limits for all soil samples analyzed. Soil analytical results were compared to Table I, Closure Criteria for Soils Impacted by a Release provided in 19.15.29.12 NMAC, which includes the following regulatory limits:

Table I Closure Criteria for Soils Im	pacted by a Release	
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/L TDS	Constituent	Limit
	Chloride	600 mg/kg
< 50 foot bac	TPH (GRO+DRO+MRO)	100 mg/kg
≤ 50 feet bgs	BTEX	50 mg/kg
	Benzene	10 mg/kg

Based on the presence of groundwater observed in monitoring well MW-1 at approximately 27.5 feet bgs, the applicable closure criteria for the Site are 600 milligrams per kilogram (mg/kg) for chloride and 100 mg/kg for TPH. These limits are also consistent with the requirements specified for the upper four feet of soil under 19.15.29.13.D.(1) NMAC for *RESTORATION, RECLAMATION AND RE-VEGETATION*.

## 2.3 Soil Remediation/Reclamation

Soil remediation/reclamation activities were initiated at the Site on July 16, 2024, and continued until September 14, 2024. Remediation/reclamation was performed by excavation and offsite disposal of soil containing concentrations above the closure criteria. The soil was excavated to depths ranging from 2.0 to 20 feet bgs, as shown on **Figure 4**. The excavation was advanced until confirmatory sample results were reported below the closure criteria and/or until the excavation could not be further advanced due to the presence of active production equipment (limited deferral request) and one area where the excavation extended vertically to a competent rock layer at approximately 20 ft bgs.

A total of approximately 10,100 cubic yards of excavated soil was transported offsite for disposal, as oil and gas exploration and production (E&P) exempt waste, at the R360 Halfway Facility (NM1-006) located at 6601 Hobbs Hwy US 62/180, Mile Marker 66, Carlsbad, NM. The remedial excavation activities and sample results were presented in the *Site Closure Report and Limited Deferral Request,* dated September 26, 2024.

Based on the rejection response received from the OCD on October 2, 2024, additional post-excavation sampling is needed to satisfy the requirements of the OCD. A copy of the OCD rejection email is provided in **Appendix A**.

The following section presents the proposed post-excavation sampling plan for the OCDs review and approval.

## 3. Proposed Post-Excavation Sampling Plan

To further evaluate areas of the Site in question, based on OCD comments, additional drilling and sampling is being proposed. **Figure 4A, 4B** and **4C** present the proposed additional locations, and the following **Table A** provides the sample collection and analysis plan.

## Table A – Sampling Plan

Sampling ID	Soil Sample Intervals	Soil Analysis	GW Analysis	Rational/Purpose
Locations 1 to 8	Collect samples at 1 ft intervals from below rock layer (~21 ft) to groundwater. Samples will be analyzed in consecutively deeper intervals if analytes exceed the applicable closure criteria.	Chloride, BTEX and TPH.	Pending – one monitoring well will be installed but not sampled unless soil results indicate a need. If field readings indicate impacts not likely, then the OCD will be contacted while on site to confirm if sampling the well is necessary.	Collection of confirmatory samples below rock layer per OCD request since collection of base samples was not possible during excavation activities.
Location 9	Collect composite samples for each five foot vertical interval below 5 ft (5-10, 10- 15 and 15-20 ft) as shown on <b>Figure 4B</b>	Chloride, BTEX and TPH	None	Collection of a sample to confirm concentrations for deeper portion of wall at CSW-2 per OCD request. If field titrations appear elevated, a step out boring will also be advanced to the east.
Location 10	Collect samples at 1 ft intervals from 0 ft to groundwater or until field titration results decrease. Analyze at 1 ft intervals from 0 to 10 ft bgs and then subsequently deeper pending results for above intervals.	Chloride, BTEX and TPH	None	To confirm vertical delineation below heater treater/separator battery to assist with subsequent cleanup and/or further discussion of cleanup requirements.
Location 11 & 12	Collect samples at 1 ft intervals from 0 ft to 4 ft.	Chloride, BTEX and TPH	None	To better define horizontal delineation within heater treater/separator battery to assist with subsequent cleanup and/or further discussion of cleanup requirements.
Locations 1B and 2B	None	NA	Install one monitoring well in these areas for evaluation of background chloride concentrations and determining groundwater flow direction.	Assess background chloride and total dissolved solids (TDS) concentrations at upgradient locations relative to the site. Analysis of BTEX and TPH will also be conducted.

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and 4B well in these areas for chloride and TDS evaluation of concentrations at background chloride cross/downgradient concentrations and location relative to the determining site. Analysis of BTEX and groundwater flow TPH will also be direction. conducted. Note, location 4B is pending landowner
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In addition to the above proposed sampling table, the following is also provided to further address the OCDs comments:

- Sample Depth Discrepancies (Eastern Area): The OCD noted that there were discrepancies between the sample depths listed in the closure report table compared to the total depth excavated within the Eastern Area where the excavation extended down to a rock layer at approximately 20 feet. Following multiple sample depth intervals which continued to exceed the closure criteria for chloride by laboratory analysis for this area (as presented in the closure report table), several deeper samples were collected for field titration testing and which still appeared elevated. As such, rather than collecting additional lab samples and the associated delays awaiting results, this section was excavated down to the rock layer with the intention of removing any remaining impacted soil above the rock layer. The field titration data that was recorded for this area during the excavation activities are presented in **Appendix C**.
- Facility Deferral Request Review Heater Treater/Separator Battery: Further to the discussion related to the deferral request for the active separator/heater treater battery, and regarding the question of potential decommissioning of this pad, it has since been confirmed with Chevron operations that the Amoco pad and related infrastructure will not be decommissioned in the foreseeable future. As such, the above proposed Locations 10, 11 and 12 will be advanced to further confirm vertical and horizontal delineation below/within the battery and for use in further discussion and for determining the planned approach to address remaining impacts within/under the battery. In additional, while on site for the drilling/sampling, a vacuum truck will be utilized to remove approximately the upper six inches impacted soil within the battery (i.e. stained areas and/or based on field screening).
- Facility Deferral Request Review Enterprise Assets and Electrical Line: Enterprise will be contacted to determine their desired approach to addressing the remaining impacts below their meters and lines to the east of the battery. A further update will be provided to the OCD upon communications with Enterprise. It is noted that a vacuum truck was utilized along the electrical line and southern (underground) portion of the Enterprise line to daylight and remove impacted soil above these line locations. It is anticipated that only a small amount of soil remains below these lines.

## 3.1.1 Drilling and Sampling Methodology

Soil borings will be advanced through underlying caliche and rock layers using a sonic drill rig in order to obtain continuous samples that can be used to prepare detailed logs of the geological strata underlying the Site. Prior to drilling, a utility clearance request will be submitted through the New Mexico One-Call service for the proposed drilling locations, and a Chevron Dig Plan Permit will be completed and signed by a Chevron representative. In addition, the soil boring locations will be cleared by a third-party utility/pipeline locate company using ground penetrating radar. A hand auger will be used to advance the boring location to depths of 5 ft bgs or to the depth of hand auger refusal (anticipated to be 3 to 5 ft bgs) to clear each boring for subsurface obstructions. Below the depth of hand auger refusal, sonic drilling equipment will

then be used for to advance the borings and produce a continuous soil core for logging the lithology present beneath the Site.

Soil samples will be collected at the intervals described above and will be field screened with a PID for each sample interval. Soil sample intervals will be logged and recorded by an AECOM Geologist to identify soil type, depth to groundwater and any visual signs of impacts. A chloride field titration kit will also be used to field screen a portion of each sample to assist with evaluating relative chloride concentrations.

Selected soil samples (as per the above **Table A**) from the borings will be transferred into clean, laboratory-provided sample containers, which will be labeled and placed on ice in laboratory-provided coolers. Chain of Custody forms will be completed, and the samples will be transported to Eurofins Laboratories (Eurofins) in Midland, TX, a National Environmental Laboratory Accreditation Program (NELAP) certified laboratory. Eurofins will analyze the samples for chloride by U.S. Environmental Protection Agency (EPA) Method 300; BTEX by EPA Method 8021B and TPH by Method 8015 NM.

Prior to initiation of field activities, an *Application for Permit to Drill a Well with No Consumptive Use* (Form WR-07) will be submitted to the New Mexico Office of the State Engineer (NMOSE) for each boring location (since extending >29 ft and to groundwater) and for groundwater monitoring wells.

In addition, and prior to the OSE permit requests, a notification of intent will be submitted to the BLM for sundry approval to include with the OSE permit requests.

Background monitoring wells will be installed to the bottom of the borehole and constructed of two-inch diameter, flush-joint, Schedule 40, polyvinyl chloride (PVC) riser and 0.010-inch factory-slotted PVC well screen. Borings will be drilled until the first groundwater bearing unit (GWBU) is encountered and then extended into the groundwater for installation of monitoring wells. Based on previous drilling at the site, it is anticipated that groundwater will be encountered between 30 to 40 feet bgs, therefore the borings will be advanced to between 40 and 50 ft bgs. Well screens will be installed across the groundwater table and well screens will be at least 10 to 15 feet in length. Each monitoring well will then be completed by installing a sand filter pack within the borehole annulus, from the bottom of the borehole to two feet above the screened interval, followed by a bentonite chip seal to within two feet the ground surface, and completed with concrete to ground surface and a concreate pad. The monitoring wells will be completed as either flush-mount or stick-up casing wells depending on the location.

Following installation (and at least 24 hours after installation), each of the wells will be developed by a combination of surging and pumping using a down-hole pump, to remove suspended sediments and enhance communication with the water-bearing zone. The pump will be decontaminated between each well using distilled water and Aloconox© soap. At least three well volumes will be removed from each well and/or until groundwater clarity improves. Water levels and total well depths will be gauged with an electronic water level meter to the nearest 0.01 foot. The location, ground surface elevation, and top of PVC casing elevation of each well will be surveyed by a professional surveyor licensed in NM, in order to obtain groundwater elevations and confirm groundwater flow direction.

Following adequate well development, each monitoring well will be sampled using low-flow sampling techniques. The total well depth and water level will be gauged in each well prior to sampling and recorded. After gauging, each monitoring well will be purged using low-flow sampling techniques (pumping rate between 0.1 to 0.25 gallon per minute) and at a rate which minimizes drawdown to confirm hydraulic connection to the formation groundwater. A downhole pump (i.e., monsoon or bladder pump) and dedicated tubing will be utilized for purging and sampling each monitoring well, with the water intake positioned at approximately the mid-point of the well screen and/or water column. The pump will be decontaminated between each well using distilled water and Aloconox© soap. Groundwater samples will be collected after the field parameters (temperature, pH, conductivity, dissolved oxygen [DO], and oxidation-reduction potential [ORP]) have stabilized. The field parameters will be measured with a flow-through cell and a calibrated YSI<sup>™</sup> multi-parameter meter and recorded. Once purging is completed, the tubing will be disconnected from the flow-through cell, and the groundwater samples will be collected directly into laboratory-supplied containers.

The samples will be immediately placed on ice in laboratory-supplied coolers and transported by AECOM personnel directly to the laboratory under chain of custody procedures. Samples will be collected for analysis of chloride, TDS, BTEX and TPH by NM Methods.

Soil cuttings/cores from drilling, decontamination water and development/purge water from monitoring wells, will be placed in 55-gallon drums, labelled and staged on site for later disposal at an approved disposal facility.

## 4. Variance Requests

As per the variance requirements of 19.15.29.14A NMAC, Chevron is requesting a variance for additional sampling of BTEX and TPH based on the following.

As per the approved remediation plan, it is noted that all initial confirmation samples were to be analyzed for chlorides as well TPH and BTEX. During confirmation sampling, all initial confirmation sample location were analyzed for all three analytes. If any of the three analytes exceeded the closure criteria, then additional soil was removed and another confirmation sample was collected but only for the analyte(s) which exceeded, since the other analyte(s) were/was ruled out based on the initial confirmation sample results. The only exceptions to this were a number of locations where BTEX and TPH were missed on the initial sample. A total of **135** initial confirmation sample locations were collected and analyzed for chloride and of which **126** were also analyzed for BTEX and TPH.

Throughout the excavation, there were no obvious indications of hydrocarbon impacts (no odors or staining) and PID readings were low, with a maximum of **2.4 ppm** out of **139** recorded readings. As such, the field crew inadvertently missed marking BTEX and TPH on the laboratory sample chain of custody forms for **16 samples**, as the primarily constituent of concern (COC) for the site is chloride and again since there were no indications of hydrocarbon impacts. The PID readings recorded during collection of samples have been added next to the associated sample on the attached confirmation sample analytical results table (**Table 1**).

The absence of BTEX in soil is further evidenced based on the sample data collected during both the assessment stage and the excavation activities. **BTEX**, with the exception of one very low detection of xylenes in a single sample, has not been reported above the detection limit in any other sample collected and analyzed to date (total of **137** samples). For **TPH**, only two samples out of **126** confirmation samples, were reported with relatively low concentrations, but above the closure criteria of 100 mg/kg at 118 and 244 mg/kg. Both of these locations were further excavated and resampled for TPH until reported concentrations were below the closure criteria. These sample locations were also located at the southern area of the excavation, closer to the separator battery. During the assessment stage, TPH was also limited to immediately adjacent or within the battery and with an overall maximum reported concentration of 1,060 mg/kg.

Based on the field observations and analytical data, chloride is considered the primarily COC associated with the site. As such, Chevron is respectively asking for a variance for the requirement to resample previously sampled locations which were missed for BTEX and TPH during the excavation activities.

## 5. Schedule and Path Forward

Following approval by the OCD of the proposed sampling plan, the drilling will be scheduled ASAP following receipt of the approved drilling permits from the NMOSE and pending drilling contractor availability. Assuming receipt of drilling permits by the second or third week of January, it is anticipated that drilling can commence the week of **January 20, 2025**. Following receipt of analytical results, an

update with a summary of findings and recommended next steps will be provided to the OCD by the **last** week in February 2025.

Pending the results of the sampling, an additional sampling and/or work plan will be provided to the OCD for approval and additional excavation activities will be scheduled as needed.

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AMOCO FED 11 CTB

SITE LOCATION MAP

AECOM Figure: 1



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## Legend





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# Table 1Confirmation Soil Analytical Results (BTEX, TPH, Chloride)Chevron MCBU - Amoco Federal 11 CTB Spill SiteEddy County, New Mexico



Sample Location	Sample ID	Sample Date	Sample Depth (ft bgs)	Total Pe GRO (C6-C10)	etroleum Hydrocarb DRO (C10-C28)	oons (SW846 Meth MRO (C28-C36)	od 8015 NM) Total TPH GRO+DRO+MRO	Benzene	Volatile Organic Toluene	Compounds (SW8 Ethylbenzene	46 Method 8021B) Total Xylenes	Total BTEX	Chloride (Method EPA 300.0 Anions by Ion Chromatography)	PID (ppm)
NMAC Regulate	ory Limits (Groundwater <	50 ft bgs)	0 - 4 ft bgs > 4 ft bgs				100 100	10 10				50 50	600 600	
Confirmation Bas CSB-001	se Samples CSB-001-4.0-20240822	8/22/2024	4.0	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	670	2.2
CSB-002	CSB-001-4.5-20240826	8/26/2024	4.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	159	NM
	CSB-002-4.0-20240822	8/22/2024	4.0	<14.5	<15.1 *+	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	858	2.0
CSB-002	CSB-002-4.5-20240826	8/26/2024	4.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	145	NM
CSB-003	CSB-003-4.0-20240815	8/15/2024	4.0	<14.6	<15.2	<15.2	<15.2	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	586 F1	NM
CSB-004	CSB-004-4.0-20240815	8/15/2024	4.0	<14.6	<15.3	<15.3	<15.3	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	579	NM
CSB-005	CSB-005-4.0-20240821	8/21/2024	4.0	<14.5	<b>17.8 J</b>	<15.1	<b>17.8 J</b>	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	767	NM
CSB-005	CSB-005-4.5-20240823	8/23/2024	4.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	449	NM
	CSB-006-4.0-20240822	8/22/2024	4	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	353	1.5
CSB-007 CSB-008	CSB-007-4.0-20240822 CSB-008-4.0-20240822	8/22/2024 8/22/2024	4 4	<14.5 <14.5	<b>15.2 J</b> <15.1	<15.1 <15.1	<b>15.2 J</b> <15.1	<0.00139 <0.00140	<0.00200 <0.00201	<0.00109 <0.00110	<0.00228 <0.00230	<0.00228 <0.00230	329 342	1.4 1.7
CSB-009	CSB-009-4.0-20240822	8/22/2024	4	<14.4	<15.0	<15.0	<15.0	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	397	2.0
	CSB-010-4.0-20240813	8/13/2024	4.0	<14.4	<b>49.0 J</b>	<15.0	<b>49.0 J</b>	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	601	NM
CSB-010	CSB-010-5.5-20240816	8/16/2024	5.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,300	NM
	CSB-010-6.0-20240820	8/20/2024	6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	684	NM
	CSB-010-6.25-20240822	8/22/2024	6.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	562	NM
	CSB-011-4.0-20240813	8/13/2024	4.0	<14.4	18.8 J	<15.0	18.8 J	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	1,530	NM
CSB-011	CSB-011-5.0-20240814	8/14/2024	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	<mark>1,020</mark>	NM
	CSB-011-5.5-20240816	8/16/2024	5.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	470	NM
	CSB-012-3.0-20240813	8/13/2024	3.0	<14.6	40.4 J	<15.2	40.4 J	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	1,520	NM
	CSB-012-4.0-20240814	8/14/2024	4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,130	NM
CSB-012	CSB-012-5.5-20240816	8/16/2024	5.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,110	NM
	CSB-012-6.0-20240820	8/20/2024	6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	613	NM
CSB-013	CSB-012-6.25-20240822	8/22/2024	6.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	483	NM
	CSB-013-3.0-20240813	8/13/2024	3.0	<14.6	<b>49.5 J</b>	<15.3	49.5 J	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	370	NM
CSB-014	CSB-014-3.0-20240822	8/22/2024	3.0	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	600	1.7
CSB-015	CSB-015-3.0-20240822	8/22/2024	3.0	<14.4	<15.0	<15.0	<15.0	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	338	1.9
CSB-016	CSB-016-3.0-20240822 CSB-016-DUP-3.0	8/22/2024	3.0	<14.5 <14.5	<15.1 <15.1	<15.1 <15.1	<15.1 <15.1	<0.00140 <0.00140	<0.00201 <0.00201	<0.00110 <0.00109	<0.00230 <0.00229	<0.00230 <0.00229	294 398	1.5
CSB-017	CSB-017-2.5-20240809	8/9/2024	2.5	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	922	1.6
	CSB-017-4.0-20240812	8/12/2024	4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	795	NM
C68 040	CSB-017-6.0-20240814	8/14/2024	6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	377	NM
	CSB-018-4.0-20240806	8/6/2024	4.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	0.00407	0.00407	1,010	NM
CSB-018 CSB-019	CSB-018-4.5-20240809 CSB-019-6.0-20240806	8/9/2024 8/6/2024	4.5 6.0	<14.5 <49.8	<b>24.7 J</b> <49.8	<15.1 <49.8	<b>24.7 J</b> <49.8	<0.00139 <0.00201	<0.00199 <0.00201	<0.00108 <0.00201	<0.00228 <0.00402	<0.00228 <0.00402	78.2 F1 389	2.1 NM
CSB-020	CSB-020-10.3-20240809	8/9/2024	10.3	<14.5	<b>244</b>	<15.1	<mark>244</mark>	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	893	1.4
	CSB-020-12.0-20240812	8/12/2024	12.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,140	NM
030-020	CSB-020-13.0-20240814 CSB-020-13.25-20240820	8/14/2024 8/20/2024	13.0 13.25	<14.5 NA	55.5 F1 B	<15.1 NA	<b>55.5</b> NA	NA NA	NA NA	NA NA	NA NA	NA NA	3,450 559	NM NM
CSB-021	CSB-021-10.25-20240809	8/9/2024	10.25	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	<mark>1,060</mark>	0.1
	CSB-021-11.5-20240812	8/12/2024	11.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	402	NM
CSB-022 CSB-023	CSB-022-10.0-20240808 CSB-023-3.0-20240726	8/8/2024 7/26/2024	10.0 3.0	<14.5 <49.7 *1	<b>22.6 J</b> <49.7 *+*1	<15.1 <49.7	<b>22.6 J</b> <49.7	<0.00140 <0.00202	<0.00201 <0.00202	<0.00109 <0.00202	<0.00229 <0.00404	<0.00229 <0.00404	200 210	0.5 1.5
CSB-024	CSB-024-3.0-20240726	7/26/2024	3.0	<49.7 *1	<49.7 *+*1	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	451	1.7
CSB-025	CSB-025-3.0-20240726	7/26/2024	3.0	<50.0 *1	<50.0 *+*1	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	311	2.1
CSB-026	CSB-026-3.0-20240726	7/26/2024	3.0	<49.8 *1	<49.8 *+*1	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	323	0.9
CSB-027	CSB-027-3.0-20240726	7/26/2024	3.0	<49.8 *1	<49.8 *+*1	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	503	1.2
CSB-028	CSB-028-3.0-20240820	8/20/2024	3.0	<14.4	<15.0 *+	<15.0	<15.0	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<b>521</b>	<b>1.9</b>
	CSB-028-3.0-20240828	8/28/2024	3.0	<14.4	<15.0	<15.0	<15.0	NA	NA	NA	NA	NA	NA	NM
CSB-029	CSB-029-4.0-20240806	8/6/2024	4.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	269	NM
	CSB-030-4.0-20240806	8/6/2024	4.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,060	NM
	CSB-030-4.75-20240809	8/9/2024	4.75	<14.4	<15.0	<15.0	<15.0	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	631	NM
	CSB-030-5.5-20240812	8/12/2024	5.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,610 F1	NM
CSB-030	CSB-030-7.0-20240814	8/14/2024	7.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,850	NM
	CSB-030-7.25-20240820	8/20/2024	7.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	662	NM
005.004	CSB-030-7.5-20240822	8/22/2024	7.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	489	NM
	CSB-031-4.0-20240806	8/6/2024	4.0	<49.9 *1	<49.9 *1	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	602	NM
CSB-031	CSB-031-4.75-20240809	8/9/2024	4.75	<14.4	<15.0	<15.0	<15.0	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	441	NM
CSB-032	CSB-032-4.0-20240808	8/8/2024	4.0	<14.5	<b>40.0 J</b>	<15.1	<b>40.0 J</b>	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	509	1.2
CSB-033	CSB-033-2.0-20240723	7/23/2024	2.0	<50.1	<50.1	<50.1	<50.1	<0.00199 *	+ <0.00199	<0.00199	<0.00398	<0.00398	<mark>1,380</mark>	0.7
	CSB-033-3.0-20240726	7/26/2024	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	435	NM
CSB-034	CSB-034-2.0-20240719	7/19/2024	2.0	<49.7	<49.7 *1	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	929 F1	2.4
	CSB-034-3.0-20240724	7/24/2024	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	502	NM
CSB-035	CSB-035-2.0-20240719	7/19/2024	2.0	<49.9	<49.9 *1	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	759	1.4
	CSB-035-3.0-20240724	7/24/2024	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	291	NM
CSB-036	CSB-036-2.0-20240719	7/19/2024	2.0	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<mark>927</mark>	0.5
	CSB-036-3.0-20240724	7/24/2024	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	559	NM
CSB-037	CSB-037-2.0-20240719	7/19/2024	2.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<mark>1,100</mark>	2.1
	CSB-037-3.0-20240724	7/24/2024	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	567	NM
CSB-038	CSB-038-3.0-20240820	8/20/2024	3.0	<14.5	51.8 B	<15.1	51.8	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	415	1.2
CSB-039	CSB-039-3.0-20240820	8/20/2024	3.0	<14.5	27.5 JB	<15.1	27.5 J	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	548	1.0
CSB-040	CSB-040-3.5-20240805	8/5/2024	3.5	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	101	1.2
CSB-041	CSB-041-3.0-20240801	8/1/2024	3.0	<49.8	<b>118</b>	<49.8	<b>118</b>	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	1,130	NM
CSB-041	CSB-041-3.5-20240805	8/5/2024	3.5	<49.7	<49.7	<49.7	<49.7	NA	NA	NA	NA	NA	70.8	1.0
	CSB-042-3.5-20240805	8/5/2024	3.5	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	80.4	0.9
CSB-043	CSB-043-2.0-20240723	7/23/2024	2.0	<49.6	<49.6	<49.6	<49.6	<0.00199 *	+ <0.00199	<0.00199	<0.00398	<0.00398	<mark>886</mark>	0.2
	CSB-043-3.0-20240726	7/26/2024	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	553	NM
CSB-044	CSB-044-2.0-20240719	7/19/2024	2.0	<50.0	<50.0 *1	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	904	0.3
	CSB-044-3.0-20240724	7/24/2024	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	324	NM
CSB-045	CSB-045-2.0-20240719	7/19/2024	2.0	<49.9	<49.9 *1	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<mark>909</mark>	0.8
	CSB-045-3.0-20240724	7/24/2024	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	453	NM
CSB-046	CSB-046-2.0-20240719	7/19/2024	2.0	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	222	1.1
CSB-047	CSB-047-2.0-20240719	7/19/2024	2.0	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,260	2.0
	CSB-047-3.0-20240724	7/24/2024	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	448	NM
	CSB-048-3.0-20240731	7/31/2024	3.0	<14.5 *+	<15.1	<15.1	<15.1	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	725	0.9
CSB-048	CSB-048-3.5-20240812 CSB-048-5.0-20240814	8/12/2024 8/14/2024	3.5 5.0	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	952 F1 1,020	NM
	CSB-048-5.25-20240816	8/16/2024	5.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	659	NM
	CSB-048-5.5-20240821	8/21/2024	5.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	744	NM
	CSB-049-3.0-20240731	7/31/2024	3.0	<14.4 *+	<15.0	<15.0	<15.0	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	998	1.3
	CSB-049-3.5-20240812	8/12/2024	3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	886	NM
CSB-049	CSB-049-5.0-20240814	8/14/2024	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	828	NM
	CSB-049-5.25-20240816	8/16/2024	5.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	995	NM
	CSB-049-5.5-20240821 CSB-049-10.0-20240823	8/21/2024 8/23/2024	5.5 10.0	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	668 937 284	NM NM
CSB-050	CSB-050-3.0-20240730	7/30/2024	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	384	1.7
CSB-051	CSB-051-3.0-20240730	7/30/2024	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	280	1.5
CSB-052	CSB-052-3.0-20240730	7/30/2024	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	378	1.0
CSB-053	CSB-053-2.0-20240723	7/23/2024	2.0	<49.7	<49.7	<49.7	<49.7	<0.00200 *	+ <0.00200	<0.00200	<0.00399	<0.00399	978	1.4
CSB-054	CSB-053-3.0-20240726	7/26/2024	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	413	NM
	CSB-054-2.0-20240719	7/19/2024	2.0	<49.8	<49.8 *1	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	321	1.4
CSB-055	CSB-055-2.0-20240719	7/19/2024	2.0	<49.6	<49.6 F1	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,430	0.4
	CSB-055-3.0-20240724	7/24/2024	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	474	NM
CSB-056	CSB-056-2.0-20240719	7/19/2024	2.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<mark>669</mark>	1.9
	CSB-056-3.0-20240724	7/24/2024	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	247	NM
CSB-057	CSB-057-2.0-20240719	7/19/2024	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	290	2.1
	CSB-058-3.0-20240731	7/31/2024	3.0	<14.5 *+	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	775	1.1
CSB-058	CSB-058-DUP-3.0 CSB-058-3.5-20240812	8/12/2024	3.0 3.5	<14.4 *+ NA	<15.0 NA	<15.0 NA	<15.0 NA	<0.00138 NA	<0.00199 NA	<0.00108 NA	<0.00227 NA	<0.00227 NA	990 951	1.1 NM
000-000	CSB-058-5.0-20240814	8/14/2024	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,240	NM
	CSB-058-5.5-20240816	8/16/2024	5.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	815	NM
	CSB-058-5.75-20240821	8/21/2024	5.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	783	NM
	CSB-059-3.0-20240731	7/31/2024	3.0	<14.5 *+	<15.1	<15.1	<15.1	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	1,010	1.0
	CSB-059-5.0-20240808	8/8/2024	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,130	NM
	CSB-059-5.5-20240812	8/12/2024	5.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,440	NM
CSB-059	CSB-059-6.0-20240814	8/14/2024	6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,190	NM
	CSB-059-6.25-20240816	8/16/2024	6.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,120	NM
	CSB-059-6.5-20240821	8/21/2024	6.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	644	NM

# Table 1Confirmation Soil Analytical Results (BTEX, TPH, Chloride)Chevron MCBU - Amoco Federal 11 CTB Spill SiteEddy County, New Mexico



nple Location	Sample ID	Sample Date	Sample Depth		etroleum Hydrocar				Volatile Organic	: Compounds (SW84	46 Method 8021B)		Chloride (Method EPA 300.0	PID (p
			(ft bgs)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C36)	Total TPH GRO+DRO+MRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Anions by Ion Chromatography)	
NMAC Regulat	tory Limits (Groundwater ·	<50 ft bgs)	0 - 4 ft bgs > 4 ft bgs				100 100	10 10				50 50	600 600	
	CSB-060-3.0-20240730 CSB-060-3.5-20240805	7/30/2024 8/5/2024	3.0 3.5	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	1,060 1,020	0.1
CSB-060	CSB-060-5.0-20240808 CSB-060-5.5-20240812	8/8/2024 8/12/2024	5.0 5.5	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	658 762	0. Ni
CSB-061	CSB-060-7.0-20240814 CSB-061-3.0-20240730	8/14/2024 7/30/2024	7.0 3.0	NA NA	NA NA	NA NA	NA NA	NA NA	NA	NA NA	NA NA	NA NA	450 544	N 1
CSB-062	CSB-062-3.0-20240729	7/29/2024	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	424	1
CSB-063 CSB-064	CSB-063-3.0-20240729 CSB-064-2.0-20240723	7/29/2024 7/23/2024	3.0 2.0	NA <49.7	NA <49.7	NA <49.7	NA <49.7	NA <0.00200	NA <0.00200	NA <0.00200	NA <0.00399	NA <0.00399	289 587	2 1
CSB-065	CSB-065-2.0-20240719 CSB-065-3.0-20240724	7/19/2024 7/24/2024	2.0 3.0	<49.8 NA	<49.8 NA	<49.8 NA	<49.8 NA	<0.00199 NA	<0.00199 NA	<0.00199 NA	<0.00398 NA	<0.00398 NA	650 223	0 N
CSB-066	CSB-066-2.0-20240719 CSB-066-3.0-20240724	7/19/2024 7/24/2024	2.0 3.0	<49.8 NA	<49.8 NA	<49.8 NA	<49.8 NA	<0.00200 NA	<0.00200 NA	<0.00200 NA	<0.00400 NA	<0.00400 NA	<mark>692</mark> 361	1 N
CSB-067	CSB-067-2.0-20240719	7/19/2024	2.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	25.3	1
	CSB-068-3.0-20240731 CSB-068-4.0-20240805	7/31/2024 8/5/2024	3.0 4.0	<14.5 *+ NA	<15.1 NA	<15.1 NA	<15.1 NA	<0.00136 NA	<0.00195 NA	<0.00106 NA	<0.00223 NA	<0.00223 NA	964 691	0 N
CSB-068	CSB-068-5.0-20240808 CSB-068-5.25-20240812	8/8/2024 8/12/2024	5.0 5.25	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	739 988	0 N
000	CSB-068-6.0-20240814 CSB-068-6.25-20240816	8/14/2024 8/16/2024	6.0 6.25	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	1,230 1,020	N N
	CSB-068-6.5-20240821 CSB-068-14.0-20240823	8/21/2024 8/23/2024	6.5 14.0	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	923 678	N N
	CSB-069-3.0-20240731 CSB-069-4.0-20240805	7/31/2024 8/5/2024	3.0 4.0	<14.5 *+ NA	<15.1	<15.1	<15.1	<0.00146	<0.00210	<0.00114	<0.00240	<0.00240	915	0
	CSB-069-4.5-20240812	8/12/2024	4.5	NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	880 1,250	N N
CSB-069	CSB-069-5.0-20240814 CSB-069-5.5-20240816	8/14/2024 8/16/2024	5.0 5.5	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	1,700 F1 1,120	0 N
	CSB-069-5.75-20240821 CSB-069-15.0-20240823	8/21/2024 8/23/2024	5.75 15.0	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	1,010 833	N N
CSB-070 CSB-071	CSB-070-3.0-20240730 CSB-071-3.0-20240729	7/30/2024 7/29/2024	3.0 3.0	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	569 326	0
CSB-071	CSB-072-3.0-20240729	7/29/2024	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	315 F1	1
CSB-073	CSB-073-2.0-20240723 CSB-073-3.0-20240726	7/23/2024 7/26/2024	2.0 3.0	<49.8 NA	<49.8 NA	<49.8 NA	<49.8 NA	<0.00199 NA	<0.00199 NA	<0.00199 NA	<0.00398 NA	<0.00398 NA	1,660 597	0
CSB-074 CSB-075	CSB-074-2.0-20240719 CSB-075-2.0-20240719	7/19/2024 7/19/2024	2.0 2.0	<49.9 <49.8	<49.9 <49.8	<49.9 <49.8	<49.9 <49.8	<0.00200 <0.00199	<0.00200 <0.00199	<0.00200 <0.00199	<0.00399 <0.00398	<0.00399 <0.00398	573 203	1 0
CSB-076	CSB-076-2.0-20240719 CSB-076-DUP-2.0	7/19/2024	2.0	<49.7 <49.8	<49.7 <49.8	<49.7 <49.8	<49.7 <49.8	<0.00202 <0.00200	<0.00202 <0.00200	<0.00202 <0.00200	<0.00404 <0.00401	<0.00404 <0.00401	456 433	1
	CSB-077-3.0-20240731 CSB-077-4.0-20240805	7/31/2024 8/5/2024	3.0 4.0	<14.4 *+ NA	<15.0 NA	<15.0 NA	<15.0 NA	<0.00138 NA	<0.00200 <0.00199 NA	<0.00200 <0.00108 NA	<0.00227 NA	<0.00227 NA	1,150 1,080	0
	CSB-077-5.0-20240808	8/8/2024	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	978	1
CSB-077	CSB-077-5.25-20240812 CSB-077-6.0-20240814	8/12/2024 8/14/2024	5.25 6.0	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	819 1,530	N N
	CSB-077-6.25-20240816 CSB-077-6.5-20240821	8/16/2024 8/21/2024	6.25 6.5	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	1,090 1,030	N N
CSB-078	CSB-077-12.0-20240823 CSB-078-3.0-20240801	8/23/2024 8/1/2024	12.0 3.0	NA <50.0	NA <50.0	NA <50.0	NA <50.0	NA <0.00200	NA <0.00200	NA <0.00200	NA <0.00400	NA <0.00400	830 217	N 1
	CSB-079-3.5-20240802	8/2/2024 8/8/2024	3.5	<49.7	84.0	<49.7	84.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<mark>1,360</mark>	1
CSB-079	CSB-079-4.0-20240808 CSB-079-4.5-20240820	8/20/2024	4.0 4.5	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	748 181	0 N
CSB-080	CSB-080-3.0-20240802 CSB-080-4.0-20240808	8/2/2024 8/8/2024	3.0 4.0	<49.7 NA	<49.7 NA	<49.7 NA	<49.7 NA	<0.00202 NA	<0.00202 NA	<0.00202 NA	<0.00404 NA	<0.00404 NA	1,240 639	1 0
	CSB-080-4.5-20240820 CSB-081-3.0-20240802	8/20/2024 8/2/2024	4.5 3.0	NA <49.7	NA <49.7	NA <49.7	NA <49.7	NA <0.00200	NA <0.00200	NA <0.00200	NA <0.00399	NA <0.00399	195 1,070	N 0
CSB-081	CSB-081-4.0-20240808 CSB-081-4.5-20240820	8/8/2024 8/20/2024	4.0 4.5	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	713 189	<b>0</b> N
CSB-082	CSB-082-3.0-20240729	7/29/2024	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	738	1
CSB-083	CSB-082-4.0-20240731 CSB-083-3.0-20240726	7/31/2024	4.0 3.0	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	223 446 F1	N 0
	CSB-083-DUP-3.0 CSB-084-2.0-20240719	7/19/2024	2.0	NA <50.0	NA <50.0	NA <50.0	NA <50.0	NA <0.00199	NA <0.00199	NA <0.00199	NA <0.00398	NA <0.00398	402 610	1
CSB-084	CSB-084-3.0-20240724 CSB-085-2.0-20240719	7/24/2024 7/19/2024	3.0 2.0	NA <49.7	NA <49.7	NA <49.7	NA <49.7	NA <0.00200	NA <0.00200	NA <0.00200	NA <0.00400	NA <0.00400	588 951	N 0
CSB-085	CSB-085-3.0-20240724 CSB-085-4.0-20240729	7/24/2024	3.0 4.0	NA	NA NA	NA	NA	NA	NA NA	NA NA	NA	NA	654 528	N N
	CSB-086-3.0-20240731	7/31/2024	3.0	<14.5 *+	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	984	1
	CSB-086-4.0-20240805 CSB-086-5.0-20240808	8/5/2024 8/8/2024	4.0 5.0	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	1,090 1,280	0 1
CSB-086	CSB-086-5.25-20240812 CSB-086-6.0-20240814	8/12/2024 8/14/2024	5.25 6.0	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	1,200 1,240	N N
	CSB-086-6.25-20240816 CSB-086-6.5-20240821	8/16/2024 8/21/2024	6.25 6.5	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	1,150 1,150	N N
CSB-087	CSB-087-3.0-20240731	7/31/2024	3.0	<14.5 *+ NA		<15.1	<15.1 NA	<0.00139 NA	<0.00199 NA	<0.00108	<0.00228	<0.00228	1,010 129	0 N
CSB-088	CSB-087-4.0-20240805 CSB-088-3.0-20240802	8/5/2024 8/2/2024	4.0 3.0	<49.8	<49.8	NA <49.8	<49.8	<0.00200	<0.00200	NA <0.00200	NA <0.00400	NA <0.00400	<mark>1,610</mark>	1
CSB-089	CSB-088-4.0-20240808 CSB-089-3.0-20240802	8/8/2024 8/2/2024	4.0 3.0	NA <50.0	NA <50.0	NA <50.0	NA <50.0	NA <0.00201	NA <0.00201	NA <0.00201	NA <0.00402	NA <0.00402	306 1,480	0 1
	CSB-089-4.0-20240808 CSB-090-3.5-20240802	8/8/2024 8/2/2024	4.0 3.5	NA <49.8	NA <49.8	NA <49.8	NA <49.8	NA <0.00200	NA <0.00200	NA <0.00200	NA <0.00399	NA <0.00399	297 1,370	0
CSB-090	CSB-090-4.0-20240808 CSB-091-3.0-20240729	8/8/2024 7/29/2024	4.0	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	591 F1	
CSB-091	CSB-091-4.0-20240731	7/31/2024	4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	121	Ν
CSB-092	CSB-092-3.0-20240726 CSB-092-4.0-20240730		3.0 4.0	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	803 323	0 N
CSB 000	CSB-093-2.0-20240719 CSB-093-3.0-20240724	7/19/2024 7/24/2024	2.0 3.0	<49.7 NA	<49.7 NA	<49.7 NA	<49.7 NA	<0.00200 NA	<0.00200 NA	<0.00200 NA	<0.00399 NA	<0.00399 NA	841 F1 603	1 N
CSB-093	CSB-093-4.0-20240729 CSB-093-5.0-20240731	7/29/2024 7/31/2024	4.0 5.0	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	707 382	N
CSB-094	CSB-094-2.0-20240719 CSB-094-3.0-20240724	7/19/2024	2.0 3.0	<50.0 NA	<50.0 NA	<50.0 NA	<50.0 NA	<0.00200 NA	<0.00200 NA	<0.00200 NA	<0.00399 NA	<0.00399 NA	1,200 1,060	1
	CSB-094-4.0-20240726	7/26/2024	4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	513	Ν
	CSB-095-3.0-20240731 CSB-095-4.0-20240805	7/31/2024 8/5/2024	3.0 4.0	<14.5 *+ NA	<15.1 NA	<15.1 NA	<15.1 NA	<0.00148 NA	<0.00213 NA	<0.00116 NA	<0.00243 NA	<0.00243 NA	896 1,080	0
	CSB-095-5.0-20240808 CSB-095-5.25-20240812	8/8/2024 8/12/2024	5.0 5.25	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	1,280 1,320	0 N
CSB-095	CSB-095-6.0-20240814 CSB-095-6.25-20240816	8/14/2024 8/16/2024	6.0 6.25	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	1,490 1,420	N N
	CSB-095-6.5-20240821 CSB-095-7.0-20240823	8/21/2024 8/23/2024	6.5 7.0	NA NA NA	NA NA	NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA	NA NA NA	870 108	
CSB-096	CSB-096-3.0-20240801	8/1/2024	3.0	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	76.4	Ν
CSB-097	CSB-097-3.5-20240802 CSB-097-4.0-20240808	8/2/2024 8/8/2024	3.5 4.0	<49.6 NA	<49.6 NA	<49.6 NA	<49.6 NA	<0.00200 NA	<0.00200 NA	<0.00200 NA	<0.00400 NA	<0.00400 NA	<mark>1,810</mark> 331	0
	CSB-098-3.0-20240802 CSB-098-4.0-20240808	8/2/2024 8/8/2024	3.0 4.0	<49.8 NA	<49.8 NA	<49.8 NA	<49.8 NA	<0.00202 NA	<0.00202 NA	<0.00202 NA	<0.00404 NA	<0.00404 NA	<mark>2,120</mark> 333 F1	1
CSB-098	CSB-099-3.0-20240729	7/29/2024	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	313	0
	CSB-100-3.0-20240726	7/26/2024 7/30/2024	3.0 4.0	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	800 226	
CSB-099 CSB-100	CSB-100-4.0-20240730	7/26/2024	3.0 3.0	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	502 472	1 0
CSB-099 CSB-100 CSB-101	CSB-100-4.0-20240730 CSB-101-3.0-20240726 CSB-102-3.0-20240726	7/26/2024				10.0	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	1,120	0
CSB-098 CSB-099 CSB-100 CSB-101 CSB-102	CSB-101-3.0-20240726	7/26/2024 8/2/2024 8/8/2024	3.5 4.0	<49.8 NA	<49.8 NA	<49.8 NA	~49.8 NA	NA	NA	NA	NA	NA	722	0
CSB-099 CSB-100 CSB-101	CSB-101-3.0-20240726 CSB-102-3.0-20240726 CSB-103-3.5-20240802 CSB-103-4.0-20240808 CSB-103-4.5-20240812	8/2/2024 8/8/2024 8/12/2024	3.5 4.0 4.5	NA NA	NA NA	NA NA	NA NA	NA NA	NA	NA	NA NA	NA	722 799	0
CSB-099 CSB-100 CSB-101 CSB-102	CSB-101-3.0-20240726 CSB-102-3.0-20240726 CSB-103-3.5-20240802 CSB-103-4.0-20240808 CSB-103-4.5-20240812 CSB-103-6.0-20240814 CSB-103-6.25-20240816	8/2/2024 8/8/2024 8/12/2024 8/14/2024 8/16/2024	3.5 4.0 4.5 6.0 6.25	NA NA NA NA	NA NA NA NA	NA NA NA NA	NA NA NA NA	NA NA NA NA	NA NA NA	NA NA NA	NA NA NA NA	NA NA NA	722 799 698 F1 595	0 N N
CSB-099 CSB-100 CSB-101 CSB-102	CSB-101-3.0-20240726 CSB-102-3.0-20240726 CSB-103-3.5-20240802 CSB-103-4.0-20240808 CSB-103-4.5-20240812 CSB-103-6.0-20240814	8/2/2024 8/8/2024 8/12/2024 8/14/2024	3.5 4.0 4.5 6.0	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA	NA NA	NA NA NA	NA NA	722 799 698 F1	0. 0. N N 1. 0.

## Table 1Confirmation Soil Analytical Results (BTEX, TPH, Chloride)Chevron MCBU - Amoco Federal 11 CTB Spill SiteEddy County, New Mexico



Sample Location	Sample ID	Sample Date	Sample Depth	Total Pe	etroleum Hydrocarl	bons (SW846 Meth	nod 8015 NM)	Volatile Organic Compounds (SW846 Method 8021B)					Chloride (Method EPA 300.0	PID (ppm)
		Sample Date	(ft bgs)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C36)	Total TPH GRO+DRO+MRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Anions by Ion Chromatography)	
NMAC Regulat	ory Limits (Groundwater	<50 ft bgs)	0 - 4 ft bgs > 4 ft bgs				100 100	10 10				50 50	600 600	
	CSB-105-3.0-20240802	8/2/2024	3.0	 <49.9	 <49.9	 <49.9	<49.9	<0.00201	 <0.00201	<0.00201	<0.00402	<0.00402	860	
	CSB-105-4.0-20240808	8/8/2024	4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	782	0.1
CSB-105	CSB-105-4.5-20240812	8/12/2024	4.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,330	NM
	CSB-105-6.0-20240814	8/14/2024	6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,150	NM
	CSB-105-6.25-20240816 CSB-105-6.5-20240820	8/16/2024 8/20/2024	6.25 6.5	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	<mark>1,230</mark> 591	NM NM
CSB-106	CSB-106-3.0-20240730	7/30/2024	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	413	1.7
CSB-107	CSB-107-3.0-20240730	7/30/2024	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	534	2.1
	CSB-108-4.0-20240805	8/5/2024	4.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	911 F1	1.2
	CSB-108-5.25-20240812	8/12/2024	5.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	633	0.8
CSB-108	CSB-108-6.0-20240814 CSB-108-6.25-20240816	8/14/2024 8/16/2024	6.0 6.25	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	727 966	NM NM
038-100	CSB-108-6.5-20240810	8/20/2024	6.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	704	NM
	CSB-108-6.75-20240822	8/22/2024	6.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	709	NM
	CSB-108-7.0-20240826	8/26/2024	7.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	144	NM
	CSB-109-4.0-20240805	8/5/2024	4.0	<49.6	<49.6	<49.6	<49.6	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	759	0.5
	CSB-109-5.0-20240808 CSB-109-5.25-20240812	8/8/2024 8/12/2024	5.0 5.25	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	661 822	0.5 NM
CSB-109	CSB-109-6.0-20240814	8/14/2024	6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	901	NM
	CSB-109-6.25-20240816	8/16/2024	6.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	993	NM
	CSB-109-6.5-20240820	8/20/2024	6.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	228	NM
CSB-110	CSB-110-3.0-20240731	7/31/2024	3.0	<14.4 *+	<15.0	<15.0	<15.0	< 0.00139	< 0.00200	<0.00109	<0.00229	<0.00229	598	1.6
CSB-111	CSB-111-3.0-20240820	8/20/2024	3.0	<14.5	15.1 J	<15.1	15.1 J	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	509 F1	
CSB-112	CSB-112-3.0-20240821 CSB-112-3.5-20240823	8/21/2024 8/23/2024	3.0 3.5	<14.5 NA	<15.1 NA	<15.1 NA	<15.1 NA	<0.00140 NA	<0.00201 NA	<0.00110 NA	<0.00230 NA	<0.00230 NA	882 622	NM NM
	CSB-112-4.0-20240827	8/27/2024	4.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.92	NM
Confirmation Wa	II Samples													
CSW-01	CSW-01-0-3-20240820	8/20/2024	0 - 3	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	751	1.5
	CSW-01-0-3-20240822	8/22/2024	0-3	NA	NA 115.1	NA	NA	NA	NA	NA	NA	NA	518 F1	
CSW-02	CSW-02-0-3-20240731 CSW-02-0-3-20240812	7/31/2024 8/12/2024	0 - 3 0 - 3	<14.5 *+ NA	<15.1 NA	<15.1 NA	<15.1 NA	<0.00140 NA	<0.00201 NA	<0.00109 NA	<0.00229 NA	<0.00229 NA	997 1,060	1.0 NM
001102	CSW-02-0-3-20240814	8/14/2024	0-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	445	NM
CSW-03	CSW-03-0-3-20240731	7/31/2024	0 - 3	<14.5 *+	15.9 J	<15.1	15.9 J	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	194	1.3
CSW-04	CSW-04-0-3-20240731	7/31/2024	0 - 3	<14.4	<15.0	<15.0	<15.0	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	<mark>698</mark>	1.4
001104	CSW-04-0-2-20240805	8/5/2024	0 - 2	NA	NA	NA	NA	NA	NA	NA	NA	NA	261	NM
	CSW-05-0-2-20240731 CSW-05-0-3-20240812	7/31/2024 8/12/2024	0 - 2 0 - 3	<14.5 *+ NA	<15.1 NA	<15.1 NA	<15.1 NA	<0.00139 NA	<0.00200 NA	<0.00109 NA	<0.00228 NA	<0.00228 NA	731 1,460	0.8 NM
CSW-05	CSW-05-0-3-20240814	8/14/2024	0-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	760	NM
	CSW-05-0-3-20240816	8/16/2024	0 - 3	NA	NA	NA	NA	NA	NA	NA	NA	NA	820	NM
	CSW-05-0-3-20240820	8/20/2024	0 - 3	NA	NA	NA	NA	NA	NA	NA	NA	NA	459	NM
CSW-06	CSW-06-0-2-20240731	7/31/2024	0 - 2	<14.5 *+	<15.1	<15.1	<15.1	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	<u>634</u>	0.5
	CSW-06-0-2-20240805 CSW-07-0-2-20240731	8/5/2024 7/31/2024	0 - 2 0 - 2	NA <14.5 *+	NA <15.1	NA <15.1	NA <15.1	NA <0.00140	NA <0.00201	NA <0.00109	NA <0.00229	NA <0.00229	590 789	NM 0.8
	CSW-07-0-2-20240805	8/5/2024	0 - 2	 NA	NA	NA	NA	NA	NA	NA	NA	NA	888	NM
CSW-07	CSW-07-0-3-20240808	8/8/2024	0 - 3	NA	NA	NA	NA	NA	NA	NA	NA	NA	912	NM
	CSW-07-0-3-20240815	8/15/2024	0 - 3	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,070	NM
	CSW-07-0-3-20240820	8/20/2024	0 - 3	NA	NA	NA	NA	NA	NA	NA	NA	NA	364	NM
	CSW-08-0-2-20240805 CSW-08-0-3-20240812	8/5/2024 8/12/2024	0 - 2	<50.0 NA	<50.0 NA	<50.0 NA	<50.0 NA	<0.00201 NA	<0.00201 NA	<0.00201 NA	<0.00402 NA	<0.00402 NA	1,670 1,400	0.4 NM
CSW-08	CSW-08-0-2-20240815	8/15/2024	0-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,660	NM
	CSW-08-0-4-20240820	8/20/2024	0 - 4	NA	NA	NA	NA	NA	NA	NA	NA	NA	436	NM
	CSW-09-0-2-20240805	8/5/2024	0 - 2	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	10,700	0.5
CSW-09	CSW-09-0-2-20240815	8/15/2024	0 - 2	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,740	NM
	CSW-09-0-4-20240820 CSW-09-DUP-0-4	8/20/2024	0 - 4	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	436 499	NM
CSW-10	CSW-09-D0P-0-4 CSW-10-0-2-20240801	8/1/2024	0 - 2	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	250	0.6
CSW-11	CSW-11-0-2-20240801	8/1/2024	0 - 2	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	426	0.8
CSW-12	CSW-12-0-2-20240801	8/1/2024	0 - 2	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	286 F1	-
CSW-13	CSW-13-0-3-20240806	8/6/2024	0 - 3	<49.7	<49.7	<49.7	<49.7	<0.00200	< 0.00200	<0.00200	< 0.00401	<0.00401	598	NM
CSW-14	CSW-14-0-4-20240809	8/9/2024 8/9/2024	0 - 4	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	403	NM 1.5
CSW-15	CSW-15-0-2-20240809 CSW-15-0-3-20240812	8/9/2024 8/12/2024	0 - 2 0 - 3	<14.4 NA	<15.0 NA	<15.0 NA	<15.0 NA	<0.00138 NA	<0.00199 NA	<0.00108 NA	<0.00227 NA	<0.00227 NA	<mark>1,020</mark> 498	1.5 NM
	CSW-16-0-3-20240812			<14.6	<15.3	<15.3	<15.3	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	707	NM
CSW-16	CSW-16-DUP-0-3	8/13/2024	0 - 3	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	716	NM
CSW-16A	CSW-16A-5-9-20240826	8/26/2024	5 - 9	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	811	NM
CSW-17	CSW-17-0-3-20240813	8/13/2024	0 - 3	<14.5	51.6	<15.1	51.6	< 0.00139	< 0.00200	< 0.00109	<0.00228	<0.00228	2,160	NM
CSW-18	CSW-18-0-2-20240815 CSW-18-DUP-0-2	8/15/2024	0 - 2	<14.5 <14.5	<15.1 <15.1	<15.1 <15.1	<15.1 <15.1	<0.00140 <0.00139	<0.00201 <0.00200	<0.00109 <0.00109	<0.00229 <0.00228	<0.00229 <0.00228	654 666	NM NM
	CSW-18-D0P-0-2 CSW-19-0-2-20240815	8/15/2024	0 - 2	<14.5	<15.0	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	1,020	NM
0011/10	CSW-19-0-3-20240813	8/21/2024	0 - 2	NA	NA	NA	NA	<0.00139 NA	NA	NA	NA	<0.00229 NA	734	NM
CSW-19	CSW-19-0-3-20240823	8/23/2024	0 - 3	NA	NA	NA	NA	NA	NA	NA	NA	NA	635 F1	NM
	CSW-19-0-3-20240827	8/27/2024	0 - 3	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.63	NM
CSW-20	CSW-20-0-3-20240822	8/22/2024	0 - 3	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	213	1.1
CSW-21	CSW-21-0-3-20240822 CSW-22-0-3-20240822	8/22/2024 8/22/2024	0 - 3 0 - 3	<14.5 <14.5	<15.1	<15.1 <15.1	<15.1	<0.00140 <0.00140	<0.00201 <0.00201	<0.00109	<0.00229 <0.00230	<0.00229	402 711	1.0 1.3
CSW-22	CSW-22-0-3-20240822 CSW-22-0-3-20240826	8/22/2024 8/26/2024	0 - 3	<14.5 NA	<15.1 NA	<15.1 NA	<15.1 NA	<0.00140 NA	<0.00201 NA	<0.00110 NA	<0.00230 NA	<0.00230 NA	711 639	1.3 NM
	CSW-22-0-3-20240828	8/28/2024	0-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.1	NM
CSW-23	CSW-023-0-3-20240821	8/21/2024	0 - 3	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	847	NM

#### Notes:

1. Soil analyses performed by Eurofins Environment Testing in Midland, Texas.

2. All analytical data are reported in units of milligrams per kilogram (mg/kg).

3. Regulatory Limits are from 19.15.29 New Mexico Administrative Code (NMAC) - "Closure Criteria for Soils Impacted by a Release."

4. "--" Indicates that no applicable regulatory limit exists for that analyte.

- 5. "ft bgs" feet below ground surface.
- 6. "GRO" Gasoline Range Organic Compounds
- 7. "DRO" Diesel Range Organic Compounds
- 8. "MRO" Motor Oil/Lube Range Organic Compounds
- 9. "NA" Not analyzed.
- 10. "NM" Not measured.
- 11. Results reported below laboratory Sample Detection Limits (SDLs) are preceded by "<".

12. Bold values represent detectable concentrations above the SDLs.

### 13. Bold and Shaded - Reported concentration exceeds NMAC Regulatory Limits.

14. Results followed by "F1" indicate Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) recovery exceeds laboratory control limits.

15. Results followed by (\*1) indicate that Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) Relative Percent Difference is outside laboratory control limits.

16. Results followed by (\*+) indicate that LCS and/or LCSD is outside laboratory control limits, and result is potentially high-biased.

17. Results followed by "J" indicate an estimated concentration, which is less than the Reporting Limit but greater than or equal to the SDL.

18. Results followed by "B" indicate that the analyte was detected in a laboratory blank.

19. Soil removed down to very hard/competent rock layer - further sampling not possible.

20. Sample collected from deferred area for documentation.

## **Appendix A**

## Form C-141 (Amoco Federal 11 CTB) and Project Correspondence

.

From:	Guillory, Ronald
To:	Barnhill, Amy; Wynne, Brad
Subject:	FW: RE: Amoco Federal 11 CTB Closure Denial Response
Date:	Thursday, November 7, 2024 8:05:24 AM

#### This Message Is From an External Sender

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#### Amy/Brad

I hope this email finds you well and in good health.

Please see the response from Brittnay Hall below.

Amy-I request that you set up a meeting to discuss her response and the proposed plan.

Thanks

Ron

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

Sent: Tuesday, November 5, 2024 4:00 PM

To: Guillory, Ronald <rong@chevron.com>

**Cc:** Hudson, Matt <MHudson@chevron.com>; Tyler, Loyd <Loyd.Tyler@chevron.com>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov> **Subject:** [\*\*EXTERNAL\*\*] RE: [EXTERNAL] Amoco Federal 11 CTB Closure Denial Response

Be aware this external email contains an attachment and/or link. Ensure the email and contents are expected. If there are concerns, please submit suspicious messages to the Cyber Intelligence Center using the Report Phishing button.

Mr. Guillory,

I received an email on 10/23/2024 from Amy Barnhill stating that the requested sampling plan discussed during the meeting on October 10, 2024, was almost ready. I had instructed Amy to send me the sampling plan via email as there is currently no way to upload a sampling plan through the OCD portal. As of today, I still have not received a copy of a sampling plan.

OCD is not opposed to having another meeting to discuss additional concerns, but we would like to review the sampling plan prior to having a meeting to ensure that Chevron's and OCD's concerns are addressed at the same time. Is the sampling plan available for review prior to

### scheduling a meeting?

To detail some of OCD's concerns, please see my responses in blue below. These responses are addressing your comments included in this email. Once the sampling plan has been submitted via email and reviewed, additional concerns and comments may arise.

- Sample Analysis for Table I Constituents: It was noted that numerous confirmation/final samples were not analyzed for all Table I constituents of concern (TPH, BTEX, and chloride) as instructed in the conditions of approval for the remediation plan dated May 8, 2024. We acknowledge this oversight and will ensure that all future samples are analyzed for these constituents. Following the conversation that Chevron had with NMOCD on October 10, 2024, it is our understanding that resampling this site will not be required. OCD requested that a variance be included in the sampling plan as to why all constituents were not analyzed. The variance request must meet the variance requirements of 19.15.29.14 A. NMAC.
- 2. Sample Collection Depths: From our October 10<sup>th</sup> meeting, it was specifically indicated that a wall sample between CSW-2 and the deeper excavation extent nearby will be the only confirmation sample that will need to be collected. We plan to collect this sample between 10-15 feet (ft.) below ground surface (bgs) with the use of a drilling rig. OCD requested the sampling plan to ensure that the proposed number of samples collected from this area and the method of sampling were adequate. One sample collected between 10-15 ft. is not adequate for the area of CSW-2. CSW-2 only had a confirmation sample collected from 0-3 ft bgs and the adjacent bases were excavated to 20 ft based on the information included in the rejected report.
- 3. Sample Depth Discrepancies: Based on the submitted closure report, NMOCD noted discrepancies between the sample depths listed in the table and the laboratory analytical results for CSB-048, CSB-049, CSB-058, CSB-059, CSB-068, CSB-069, CSB-077, and CSB-086 compared to the depths indicated on the map. Chevron determined that analytical samples were not collected beyond the depths listed on the table due to elevated field screening readings at multiple depths down to 20 ft. bgs. While additional samples could be collected at these total depths by deploying a drilling rig to the location, we have concerns about drilling through the hard pack caprock currently in place at 20 feet bgs. This could potentially create a conduit, allowing possible constituents in the area a direct route to the shallow groundwater table. We would appreciate further discussion on this matter. OCD is open to discussing this but be advised that closure will not be granted if contamination above the remediation closure criteria is left in place unless a variance is requested. A variance must meet the variance requirements of 19.15.29.14 A. NMAC and be fully delineated. OCD was also not provided any data (laboratory analytical or field screening results) from the deepest intervals of the excavation in this area in the rejected remediation closure report. Additionally, the report states that mass source removal has been completed and any

remaining contamination that would flow through any potential conduits that may or may not be created during boring activities should already be mitigated during remediation activities. Additionally, properly plugged boreholes are sufficient to protect groundwater.

- 4. **Analytical Results for DB-19/MW-1:** We will include these results in the upcoming reports. Please include field screening and laboratory analytical results, if applicable.
- 5. Facility Deferral Request Review: In the submitted closure report, Chevron requested a review for deferral of the impacted area around the battery on the south side of the pad. Following the NMOCD's review, it was determined that the remediation of this release does not necessitate a major facility deconstruction. Consequently, a deferral for this release will not be granted, and the remediation must adhere to the most stringent closure criteria. Given the complexity of addressing this issue, Chevron is requesting an additional meeting with the NMOCD to discuss a path forward. This discussion will include a proposed interim remedial step and a potential reevaluation of the deferral request. The proposed interim step involves removing the shallow impacted soil in the battery area, thereby eliminating the majority of the impacted source material that could affect shallow groundwater. We believe that this interim step, which focuses on removing the majority of the chloride mass, will be protective of the shallow groundwater. Additionally, a boring within the battery area will be drilled to confirm vertical delineation. Deferrals must comply with 19.15.29 NMAC. Chevron has communicated to the OCD that the site was to be decommissioned and there was going to be some verification as to if and when that was going to happen. OCD has not received a status update regarding decommissioning of the site yet. If the deferral requirements cannot be met, a variance can also be requested.

In addition to addressing the listed concerns during the upcoming meeting, we would also like to discuss the possibility of drilling temporary groundwater monitoring wells. This would allow us to analyze the local groundwater for chlorides and determine the existing background levels in the area. OCD would like to review the locations of the temporary groundwater monitoring wells before they are installed.

#### 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/

<u>Effective 12/1/2024</u>: OCD has updated guidance on karst potential occurrence zones. This notice can be found at: <u>https://www.emnrd.nm.gov/ocd/ocd-announcements-and-</u>

notifications/ under "2024 OCD ANNOUNCEMENTS AND NOTIFICATIONS".

The Digital C-141 guidance documents can be found at <u>https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-forms/</u>.

From: Guillory, Ronald <rong@chevron.com>
Sent: Tuesday, November 5, 2024 8:32 AM
To: Hall, Brittany, EMNRD <<u>Brittany.Hall@emnrd.nm.gov</u>>
Cc: Hudson, Matt <<u>MHudson@chevron.com</u>>; Tyler, Loyd <<u>Loyd.Tyler@chevron.com</u>>
Subject: [EXTERNAL] Amoco Federal 11 CTB Closure Denial Response

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

NMOCD Leadership

I hope this email finds you well and in good health.

We are writing in response to the denial of our closure/deferral request for the spill at the Amoco Federal 11 CTB [NAPP2216547154], submitted on September 27, 2024. We appreciate the detailed feedback and would like to address the concerns raised. Additionally, we would like to schedule a follow-up meeting with NMOCD to discuss these concerns in further detail to help clarify and align on our path forward.

- Sample Analysis for Table I Constituents: It was noted that numerous confirmation/final samples were not analyzed for all Table I constituents of concern (TPH, BTEX, and chloride) as instructed in the conditions of approval for the remediation plan dated May 8, 2024. We acknowledge this oversight and will ensure that all future samples are analyzed for these constituents. Following the conversation that Chevron had with NMOCD on October 10, 2024, it is our understanding that resampling this site will not be required.
- 2. **Sample Collection Depths:** From our October 10<sup>th</sup> meeting, it was specifically indicated that a wall sample between CSW-2 and the deeper excavation extent nearby will be the only confirmation sample that will need to be collected. We plan to collect this sample between 10-15 feet (ft.) below ground surface (bgs) with the use of a drilling rig.
- 3. Sample Depth Discrepancies: Based on the submitted closure report, NMOCD noted discrepancies between the sample depths listed in the table and the laboratory analytical results for CSB-048, CSB-049, CSB-058, CSB-059, CSB-068, CSB-069, CSB-077, and CSB-086 compared to the depths indicated on the map. Chevron determined that analytical samples were not collected beyond the depths listed on the table due to elevated field screening readings at multiple depths down to 20 ft. bgs. While additional

samples could be collected at these total depths by deploying a drilling rig to the location, we have concerns about drilling through the hard pack caprock currently in place at 20 feet bgs. This could potentially create a conduit, allowing possible constituents in the area a direct route to the shallow groundwater table. We would appreciate further discussion on this matter.

- 4. **Analytical Results for DB-19/MW-1:** We will include these results in the upcoming reports.
- 5. **Facility Deferral Request Review:** In the submitted closure report, Chevron requested a review for deferral of the impacted area around the battery on the south side of the pad. Following the NMOCD's review, it was determined that the remediation of this release does not necessitate a major facility deconstruction. Consequently, a deferral for this release will not be granted, and the remediation must adhere to the most stringent closure criteria. Given the complexity of addressing this issue, Chevron is requesting an additional meeting with the NMOCD to discuss a path forward. This discussion will include a proposed interim remedial step and a potential reevaluation of the deferral request. The proposed interim step involves removing the shallow impacted soil in the battery area, thereby eliminating the majority of the impacted source material that could affect shallow groundwater. We believe that this interim step, which focuses on removing the majority of the chloride mass, will be protective of the shallow groundwater. Additionally, a boring within the battery area will be drilled to confirm vertical delineation.

In addition to addressing the listed concerns during the upcoming meeting, we would also like to discuss the possibility of drilling temporary groundwater monitoring wells. This would allow us to analyze the local groundwater for chlorides and determine the existing background levels in the area.

We appreciate your guidance and are committed to addressing all concerns to achieve regulatory compliance.

Thank you for your time and consideration.

#### Best regards,

Ron Guillory MCBU Environmental Field Team Lead Mid-Continent Business Unit (MCBU) Chevron North America Exploration and Production Company 6301 Deauville Midland, TX office 432-687-7329 Mobile 432-215-2131

#### rong@Chevron.com

Ron Guillory MCBU Environmental Field Team Lead Mid-Continent Business Unit (MCBU) Chevron North America Exploration and Production Company 6301 Deauville Midland, TX office 432-687-7329 Mobile 432-215-2131 rong@Chevron.com

From:	Barnhill, Amy
То:	Wynne, Brad
Subject:	The Oil Conservation Division (OCD) has rejected the application, Application ID: 388004
Date:	Wednesday, October 2, 2024 1:15:59 PM

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## Thank you, Amy

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, October 2, 2024 12:05 PM
To: Barnhill, Amy <ABarnhill@chevron.com>
Subject: [\*\*EXTERNAL\*\*] The Oil Conservation Division (OCD) has rejected the application, Application ID: 388004

To whom it may concern (c/o Amy Barnhill for CHEVRON U S A INC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2216547154, for the following reasons:

- Numerous confirmation/final samples were not analyzed for all Table I constituents of concern (TPH, BTEX, and chloride) as instructed in the conditions of approval for the remediation plan on 5/8/2024.
- Sample analytical results from CSW-02 indicate that the sample was collected from 0-3' bgs. Representative samples of the deeper portions of the excavation walls adjacent to the deeper excavation must be collected and analyzed for TPH, BTEX, and chloride.
- Sample depths found on the table and the laboratory analytical results for CSB-048, CSB-049, CSB-058, CSB-059, CSB-068, CSB-069, CSB-077 and CSB-086 do not correlate with the sample depths indicated on the map. Clarify as to why samples were not collected at the total depth of the excavation at these sample locations. Samples must be collected at the total depth of the excavation prior to submitting a closure report.

- Include a copy of the analytical results of the samples that were collected from DB-19/MW-1.
- The OCD reviews each deferral request on a case-by-case basis. Major facility deconstruction typically involves concrete poured pads, structures, engineered designed facilities that include automation/electrical lines, sprayed in lines, etc. After review, OCD does not consider the remediation of this release to require a major facility deconstruction. A deferral for this release will not be granted and the release will need to be remediated to the most stringent closure criteria.
- Include all correspondence via email for extensions, sampling variances, etc. in the next submission.
- All additional confirmation samples collected after 10/2/2024 must have appropriate sampling notifications submitted through the OCD permitting website on the C-141N. Sampling notifications must be submitted at least 2 full business days prior to collection pursuant to 19.15.29.12.D.(1)(a) NMAC.
- Submit a complete and accurate report through the OCD permitting website by 11/22/2024.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 388004.

Please review and make the required correction(s) prior to resubmitting. If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you, Brittany Hall Projects Environmental Specialist - A 505-517-5333 Brittany.Hall@emnrd.nm.gov

**New Mexico Energy, Minerals and Natural Resources Department** 1220 South St. Francis Drive Santa Fe, NM 87505
# **Appendix B**

# Soil Boring/Monitoring Well Construction Log and Laboratory Analytical Report (DB-19/MW-1)

			DM								CONSTRUCTION DIAGRAM	VI		IMBER AM	PAGE 1 OF 2
			vron M MBER		29410	6; 6	6072				OJECT NAME <u>MCBU NM</u> OJECT LOCATION <u>Loving</u>			IM	
DATE	STA	ART	ED_5/2	<u>8/2</u> 4	DRIL	LII	NG	CONTRA		[alon/LPE	GROUND ELEVATION				
COMF	PLET	TED_	5/29/2	4	DRIL	LI	NG I	METHOD	Geopro	he CV/E Caria	GROUND WATER LEVEL				
		-	B. Cla								AT TIME OF DRILLING				
OTE	s _/	٩mo	co Fede	eral 11	I CTI	B. I	Mon	itor well N	/IW-1 in:	stalled on 5/29/2024.	LATITUDE <u>32.318114</u>			TUDE104	
Sampl HA-Ha			; HSA-Ho	ollow S	Stem	Aug	jer;	SSA - Solic	d Stem A	uger; DP- Direct Push; SC	- Sonic Core	BOREHC		AMETER_	4.5"
					_	.									_
o Leptn	Sample Type	Drilling Log	Push/ Recovery (in.)	UI4	Sampled Interval		Analysis	Graphic Log	NSCS	MATE	RIAL DESCRIPTION		Contact Depth		
-		ł							SW-SM	abundant subangular calid	ell-graded, fine to very fine <b>silty</b> the gravel; dry. prox. 30%, up to small cobble-si				
-	sc	I	000						ML	Light grey, hard/indurated	caliche; dry.		2.0		
-								× × × × × × × × × × × ×							
5									SW-SM	silty sand with subangula	derately to well-graded, fine to ve ir caliche gravel; dry. 15-20%, up to medium pebble-s		4.0		
_									• •			szeu.	6.0		
-	sc		000					× × × × × × × × × × × × × × × × × × ×		Light grey, hard/indurated	calicne; dry.				
<u>10</u>				0.0		(10-12')	Cl-	× × × × × × × × × × × × × × × × × × ×							Detland
_	sc		000	0.0		(12-14')	Cl-	× × × × × × × × × × × × × × × ×	1						Portland Type I/II Cement.
15	sc		55	0.0		(14-16')	Cl-	× × × × × × × × × × × × × × × × × × × ×					16.0		
-	sc		<u>8</u> 6		Ū.	8.)			SW-SM	Light tannish-orange, fine (same as 4-6'); dry.	to very fine silty sand with calid	che gravel	17.0		
-		╢		0.0	$\mathbb{N}$	(16-18')	Cl-	* * * * * * * * * * * * * * * * *	ML	Light grey, hard/indurated	caliche; dry.				
-				0.0	M :	[	~	× × × ×	∘ SW	Tannish-yellow, well-grade	ed, fine gravelly sand; dry.		18.5		
20	sc		48 848	0.0	$\mathbb{N}$	(18-20')	Cl-		•		of subangular caliche, up to 30%	%, small	20.0		
					$\prod$	[]	<i>c</i> .		ML	Light grey, hard/indurated	caliche; dry.		21.0	1	
-		╢	-	0.0	$\mathbb{N}$	(20-22')	Cl-		SW	Tannish-yellow, well-grade dry.	ed, fine <b>gravelly sand</b> (same as	; 18.5-20');	22.0		
-				0.0	$\prod$	(22-24')	Ċ		CL	dry.	dium plasticity <b>gravelly clay</b> ; m				
_	sc		54 28	0.0	$\mathbb{N}$	(22)	Cl-			15-20%, small pebble-size		ne, approx.			
25				0.0		(24-26')	Cl-			- Contains approx. 10-15	% very fine sand and slit.				Bentonite
-	sc		48		Ň	(26-28')	CI-		ML	minor sand; dry.	-grey, consolidated, <b>gravelly si</b> l of rounded caliche, approx. 10-1		26.0	Į	seal with 3/8" hydrated
- 30	S				$\mathbb{N}$	(28-30')	Cl-		c				30.0		

A	Ξ	CC	DM					I	BORING LOG - WELL CONSTRUCTION DIAGRAM	BORIN	g nu	MBER AMOCO DB-19/MW-1 PAGE 2 OF 2
			ron M						PROJECT NAME MCBU NM Sp	ill Sites		
ROJ	ECT	NU	MBER	6072	9416;	6072	29423		PROJECT LOCATION _Loving, E	ddy Cou	nty, N	M
ATE	STA	RTE	<b>D</b> _5/2	<u>8/2</u> 4	DRILL	ING	CONTRAC	TOR_	GROUND ELEVATION			
OMP	LET	ED_	5/29/2	4	DRILL	ING I	METHOD	Geopro	bbe GV5 Sonic GROUND WATER LEVEL			
		_	B. Cla					-	B. Wynne AT TIME OF DRILLING			
			o Fede	eral 11	CTB.	Mon	itor well M	1W-1 in:	stalled on 5/29/2024. LATITUDE 32.318114			
ample A-Har			HSA-He	ollow S	Stem Au	iger;	SSA - Solid	Stem A	uger: DP- Direct Push: SC - Sonic Core			AMETER_4.5" ER_2"
					_				···			
_	ype	bo-	Push/ Recovery (in.)		Sampled Interval	<u>s</u>	U				Depth	
(ff)	Sample Type	Drilling Log	'ush/	DIA DId	ed In	Analysis	Graphic Log	USCS	MATERIAL DESCRIPTION		act D	
	Sam	Drill	Reco		ampl	<b>A</b>	Ū				Contact	
0			_		ű			CL-ML	Brownish-orange, low plasticity sandy to silty clay; medium s	oft to	)	· · · · · · · · · · · · · · · · · · ·
_		I							stiff, consolidated; dry.			
_	SC		36 24									
_								ML	Brownish-yellow, consolidated, very fine sandy silt with minor		<u>33.0</u>	
_		I						IVIL	- Clay is low plasticity, content approx. 10-15%.	r ciay,		
5	sc		36 36		(34-36')	CI-						
_					ЩŞ			<u>em</u>			<u>36.0</u>	8/16
_								SM	Brownish to greyish-yellow, poorly-graded, consolidated, very silty sand; stiff; moist.	tine		Silica <b>◄</b> -Sand
_	sc		4 8 8 8									filter pack.
_	0,	3										
0											40.0	0.010" slotted
_								CL-ML	Brownish to greyish-yellow, low plasticity, very fine <b>sandy to s</b> <b>clay</b> ; consolidated, stiff; moist.	silty		PVC screen.
_	SC		36 30								42.0	
_								CL	Dark grey, low plasticity, very fine <b>sandy clay</b> ; consolidated, v stiff; moist. Reddish-brown oxidation staining visible.	-	<u>43.0</u>	
_								CL-ML	Brownish-yellow, low plasticity, very fine <b>sandy to silty clay</b> (s 40-42'); moist.	same as		
5	sc		30 30								45.0	Cone-sha
_							$\begin{array}{c} \times \times \times \times \\ \times \times \times \\ \times \times \times \\ \times \times \times \end{array}$	ML	Light grey, hard/indurated <b>caliche</b> ; dry. Monitor well installed as flush mount.		46.0	PVC sump.
									Bottom of borehole at 46.0 feet.			oump.



June 06, 2024

BRAD WYNNE

AECOM - DALLAS

13355

DALLAS, TX 75240

RE: AMOCO CTB

Enclosed are the results of analyses for samples received by the laboratory on 05/29/24 8:15.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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,

Whe Singh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

	AECOM - DALLAS BRAD WYNNE 13355 DALLAS TX, 75240 Fax To:		
Received:	05/29/2024	Sampling Date:	05/28/2024
Reported:	06/06/2024	Sampling Type:	Soil
Project Name:	AMOCO CTB	Sampling Condition:	Cool & Intact
Project Number:	60729416	Sample Received By:	Shalyn Rodriguez
Project Location:	CHEVRON - EDDY CO., NM		

### Sample ID: DB - 19 (10-12) (H242960-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/29/2024	ND	1.68	83.8	2.00	4.35	
Toluene*	<0.050	0.050	05/29/2024	ND	1.75	87.4	2.00	4.11	
Ethylbenzene*	<0.050	0.050	05/29/2024	ND	1.82	91.2	2.00	3.16	
Total Xylenes*	<0.150	0.150	05/29/2024	ND	5.54	92.3	6.00	2.31	
Total BTEX	<0.300	0.300	05/29/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	05/30/2024	ND	448	112	400	3.51	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/29/2024	ND	221	111	200	0.609	
DRO >C10-C28*	<10.0	10.0	05/29/2024	ND	218	109	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	05/29/2024	ND					
Surrogate: 1-Chlorooctane	79.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.3	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

		AECOM - DALLAS BRAD WYNNE 13355 DALLAS TX, 75240 Fax To:		
Received:	05/29/2024		Sampling Date:	05/28/2024
Reported:	06/06/2024		Sampling Type:	Soil
Project Name:	AMOCO CTB		Sampling Condition:	Cool & Intact
Project Number:	60729416		Sample Received By:	Shalyn Rodriguez
Project Location:	CHEVRON - EDDY CO	D., NM		

#### Sample ID: DB - 19 (12-14) (H242960-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	05/31/2024	ND	400	100	400	7.69	

# Sample ID: DB - 19 (14-16) (H242960-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	06/04/2024	ND	432	108	400	0.00	

# Sample ID: DB - 19 (16-18) (H242960-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	06/06/2024	ND	432	108	400	3.64	

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Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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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Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

	ne@cardinallabsnm.com	langes to celey.kee	iges. Please email ch	Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	† Cardinal	CVILLET N DA DOD-MINO	2
c	Yes Yes	Thermometer ID #140 Correction Factor 0°C	R		Corrected Temp. °C	r - UPS - Bus - Other:	Sampler
/	Standard Bacteria (only) Sample Condition	2	CHECKED BY:	Sample	Observed Temp. °S. U	ed By: (Circle One)	Delivered By:
T	other simples on Rush	HOLD an	$\sim$		Time:		
F	First Simple on	REMARKS: RUN	C	Received By:	Date:	Relinquished By:	telinqui
	they wy me (a ac con . com	وروالم	wert	STOCKERT	20-	Carlos	FCM
	Yes     No     Add'I Phone #: ailed. Please provide Email address:	All Results are emailed	in a h	Received By:	0 0ate: 0/24	Hyphed By:	telinguisthed
		~ ¥	of use, or loss of profits incurred by c sodn any of the above stated re	without limitation, business interruptions, loss urdinal, regardless of whether such claim is be	ental or consequental damages, including a performance of services hereunder by C	s event shall Cardinal be liable for incid sccessor, mising gytpl or related to the	evice. In no e filiates or suc
		d by the client for the r completion of the applicable	yrt, shall be limited to the amount pel- reived by Cardinal within 30 days afte	y claim arising whether based in contract or to eemed waived unless made in writing and rec	lability and client's exclusive remedy for an and any other cause whatsoever shall be d	TE: Liability and Damages. Cardina's I claims including those for neoficience a	LEASE NOTE
X		1913	× 5/28/24	2	106-82	DB-19	N
X		0281	X 5 28 24		26-28		9
X		0830	X 5/28/24		24-26)	DA	×
X		1828	× 5/28/24	GZ X	E2-24)	1	14
x	•	1807	X SI82	2.	20-22)		-
x		1865	× 52821	2	(18-20)	· 1	N
×	<	1750	X 5 28 H	G 2 X	16-18	DR -19	CI
X	×	1730	1 5/28/24	2	14-16	1 1	N
X	×	1717 .	X 5[28]24	G 2 X	(12-14) .	<b>1</b>	2
		(TIS X	the second	2 X	(10-12)	DA - 19	1 of
Hol	Chi Chi	TIME	ACID/BA ICE / CO OTHER	(G)RAB ( # CONT/ GROUNI WASTEV SOIL OIL SLUDGE OTHER		7	huhi
d	IDRID DRID	lorid	A MARINA AND	WATER VATER	Sample I.D.		Lab I.D.
			PRESERV. SAMP	MATRIX			FOR LAB USE ONLY
			Fax #:	F	5-	ampler Name: Jones	ampler
	dd Lefe	971-1829	Phone #: 214 - 971 -	2	MN	on: (	roject I
	19 20 4	240	State: 1x Zip:75240	S		Name: Amoco	roject Name:
	15		City: D_1-5	MCBU	Project Owner: Chevron	# 60729416	roject #:
	-3-3-	Rd, ste.	Address: 13355 Noel Rd.		29 Fax#:	-126	hone #
		NE	Attn: BRAD WYNNE	75240	State: TX	5	ity: 1
	2 74 7 2 7 2		Company: AE LOM	400 0	Rd. Suite	1335	Address:
	1 57 >,		P.O. #:	P	WYNNE	roject Manager: Brend	roject I
	ANALYSIS REQUEST		BILL TO		2	Company Name: AECOM	ompan
				40	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	101 East Ma (575) 393-2	
				U	ratories	Labo	-
F	CUSTODY AND ANALYSIS REQUEST	CHAIN-OF-CL			CIVIE	L L J	
					ファシ	コトロ	

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# Received by OCD: 12/19/2024 8:03:40 AM

City: Phone #: 2 |4 - 97) - 1829 Relinquisher Project Name: AMOLO Project #: 60729416 Project Manager: Company Name: **Relinquished By:** LEASE NOTE: Liability an Sampler Name: Project Location: Address: 13355 Sampler - UPS - Bus - Other: NELON Delivered By: (Circle One) optorner Lab I.D. FOR LAB USE ONLY in no All claims Dalles rvent shall Ca 101 East Marland, Hobbs, NM 88240 aboratories ARDINAL DB-19 Brad (575) 393-2326 FAX (575) 393-2476 Loving Janes AECOM Noel Sample I.D. Wynee INM. Lovel x 34-36 Rd Observed Temp. °C Fax #: Project Owner: Clavan MCBU Date: Time: Im State: TX Zip: 75240 5 -08:15 20 Site Cardinal cannot accept verbal changes. 24 40 (G)RAB OR (C)OMP 8 **Received By** Received By N # CONTAINERS GROUNDWATER 3 Sample Condition Cool\_Intact Yes Yes WASTEWATER \* MATRIX × SOIL OIL SLUDGE loss of use, or loss of profits City: DALLAS P.O. #: OTHER Fax #: Phone #: 214 - 971-1870 State: 1X Attn: BRAD WY NNE Company: Address: 13355 N=1Rd, Ste. ACID/BASE ed by Cardinal within 30 days after cor PRESERV white white use Please email changes to celey.keene@cardinallabsnm.com CHECKED BY: ICE / COOL BILL Initial OTHER Zip: 75240 RECOM 2/28/24/19/5 DATE 10 SAMPLING ed by client, its subsidiarier vaid by the client for the Turnaround Time All Results are emailed. REMARKS: CHAIN-OF-CUSTODY AND ANALYSIS REQUEST Verbal Result TIME tion of the ap ometer ID #140 tion Factor 0°C Chlorides けって TPH 1 Yes BTEX bradley. wynne @ accon.com Please provide Email address Standard Rush O No 20 Add'l Phone #: ANALYSIS X0 Cool Intact 24-48 Bacteria (only) Sample Condition REQUEST RUSH Corrected Temp. °C Observed Temp: TAT à Hold X

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Released to Imaging: 12/19/2024 8:07:01 AM

Post-Excavation Sampling Plan



# **Field Titration Data – Eastern Area**

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# Table 1 - Field Titration Results - Eastern Area Chevron MCBU - Amoco Federal 11 CTB Spill Site Eddy County, New Mexico

Sample Location	Sample ID	Sample Date	Sample Depth	Field Titratio (PF		Chloride (Method EPA 300.0 Anions by Ion	
			(ft bgs)	Initial Field Result	Correlated result (x2)*	Anions by lo Chromatograp	
NMAC Regulate	ory Limits (Groundwater <	<50 ft bgs)	0 - 4 ft bgs			600	
Confirmation Pag	mple Location         Sample ID           NMAC Regulatory Limits (Groundwate           firmation Base Samples           CSB-048-3.0-20240731           CSB-048-3.0-20240731           CSB-048-3.0-20240731           CSB-048-3.0-20240731           CSB-048-3.0-20240731           CSB-048-3.0-20240812           CSB-048-3.0-20240814           CSB-048-5.2-20240814           CSB-048-5.2-20240814           CSB-048-5.2-20240821           CSB-048-5.2-0240821           CSB-048-3.0-20240731           CSB-049-3.0-20240814           CSB-049-3.0-20240814           CSB-049-5.2-20240814           CSB-049-5.2-20240814           CSB-049-10.0-20240824           CSB-049-10.0-20240824           CSB-058-3.0-20240812           CSB-058-3.0-20240812           CSB-058-3.0-20240812           CSB-058-3.0-20240812           CSB-058-5.2-02240812           CSB-058-5.2-02240812           CSB-058-5.2-02240812           CSB-058-5.2-02240812           CSB-058-5.2-02240812           CSB-058-5.2-02240812           CSB-058-5.2-02240812           CSB-058-5.2-02240812           CSB-058-5.2-02240812           CSB-058-5.2-02240812		> 4 ft bgs			600	
Confirmation Ba		7/31/2024	3.0	390	780	725	_
		8/12/2024	3.5	340	680	952	F1
		8/14/2024	5.0	-	-	1,020	<u></u>
		8/16/2024	5.25			659	-
CSB-048		8/21/2024	5.5	348	696	744	-
		8/23/2024	10.0	408	816	-	
		8/24/2024	15.0	360	720		
		8/27/2024	20.0	505	1010	-	
		7/31/2024	3.0	385	770	998	
		8/12/2024	3.5	-	-	886	-
		8/14/2024	5.0			828	-
CSB-049		8/16/2024	5.25			995	-
		8/21/2024	5.5	343	686	668	-
		8/23/2024	10.0	400	800	937	-
		0/20/2024	10.0	400	000	775	-
		7/31/2024	3.0	275	550	990	
		8/12/2024	3.5	385	385	951	-
		8/14/2024	5.0	-		1,240	-
CSB-058		8/16/2024	5.5			815	-
002 000		8/21/2024	5.75	350	700	783	-
		8/23/2024	10.0	438	876	-	
CSB-058		8/23/2024	15.0	423	846		
		8/27/2024	20.0	495	990	-	
		7/31/2024	3.0	400	800	1,010	
		8/8/2024	5.0	-	-	1,130	-
		8/12/2024	5.5	-	-	1,440	-
CSB-059	CSB-059-6.0-20240814	8/14/2024	6.0	-	-	1,190	-
	CSB-059-6.25-20240816	8/16/2024	6.25	-	_	1,120	-
	CSB-059-6.5-20240821	8/21/2024	6.5	305	610	644	-
	CSB-059-10.0	8/23/2024	10.0	428	856	-	
	CSB-059-13.0-20240823	8/23/2024	13.0	370	740	758	
	CSB-068-3.0-20240731	7/31/2024	3.0	375	750	964	
	CSB-068-4.0-20240805	8/5/2024	4.0	318	636	691	-
	CSB-068-5.0-20240808	8/8/2024	5.0	193	386	739	-
	CSB-068-5.25-20240812	8/12/2024	5.25	-	-	988	-
	CSB-068-6.0-20240814	8/14/2024	6.0	-	-	1,230	-
CSB-068	CSB-068-6.25-20240816	8/16/2024	6.25	-	-	1,020	-
	CSB-068-6.5-20240821	8/21/2024	6.5	325	650	923	_
	CSB-068-10.0	8/23/2024	10.0	515	1030	-	
CSB-068	CSB-068-14.0-20240823	8/23/2024	14.0	345	690	678	
	CSB-068-18.0	8/23/2024	18.0	452	904	-	



### Table 1 - Field Titration Results - Eastern Area Chevron MCBU - Amoco Federal 11 CTB Spill Site Eddy County, New Mexico

Sample Location	Sample ID	Sample Date	Sample Depth (ft bgs)	Field Titration Readings (PPM)		Chloride (Method EPA 300.0	
				Initial Field Result	Correlated result (x2)*	Anions by lon Chromatography)	
NMAC Regulatory Limits (Groundwater <50 ft bgs)		0 - 4 ft bgs			600		
Thinks (Groundwater So it bys)			> 4 ft bgs			600	
	CSB-069-3.0-20240731	7/31/2024	3.0	400	800	915	
	CSB-069-4.0-20240805	8/5/2024	4.0	358	716	880	
	CSB-069-4.5-20240812	8/12/2024	4.5	-	-	1,250	
CSB-069	CSB-069-5.0-20240814	8/14/2024	5.0	248	496	1,700 F1	
C3B-009	CSB-069-5.5-20240816	8/16/2024	5.5	-	-	1,120	
	CSB-069-5.75-20240821	8/21/2024	5.75	333	666	1,010	
	CSB-069-10.0	8/23/2024	10.0	475	950	-	
	CSB-069-15.0-20240823	8/23/2024	15.0	305	610	833	
	CSB-077-3.0-20240731	7/31/2024	3.0	498	996	<mark>1,150</mark>	
	CSB-077-4.0-20240805	8/5/2024	4.0	355	710	1,080	
	CSB-077-5.0-20240808	8/8/2024	5.0	250	500	<mark>978</mark>	
	CSB-077-5.25-20240812	8/12/2024	5.25	-	-	819	
CSB-077	CSB-077-6.0-20240814	8/14/2024	6.0	-	-	1,530	
C3B-0/7	CSB-077-6.25-20240816	8/16/2024	6.25	-	-	1,090	
	CSB-077-6.5-20240821	8/21/2024	6.5	305	610	1,030	
	CSB-077-10.0	8/23/2024	10.0	403	806	-	
	CSB-077-12.0-20240823	8/23/2024	12.0	375	750	830	
	CSB-077-15.0	8/23/2024	15.0	426	852	-	
	CSB-086-3.0-20240731	7/31/2024	3.0	390	780	<mark>984</mark>	
	CSB-086-4.0-20240805	8/5/2024	4.0	378	756	<mark>1,090</mark>	
	CSB-086-5.0-20240808	8/8/2024	5.0	263	526	<mark>1,280</mark>	
	CSB-086-5.25-20240812	8/12/2024	5.25	340	680	1,200	
CSB-086	CSB-086-6.0-20240814	8/14/2024	6.0	-	-	1,240	
C3D-000	CSB-086-6.25-20240816	8/16/2024	6.25	-	-	1,150	
	CSB-086-6.5-20240821	8/21/2024	6.5	333	666	1,150	
	CSB-086-10.0	8/23/2024	10	378	756	-	
	CSB-086-15.0	8/23/2024	15	402	804	-	
	CSB-086-20.0	8/23/2024	20	418	836	-	

#### Notes:

- 1. Soil analyses performed by Eurofins Environment Testing in Midland, Texas.
- 2. All analytical data are reported in units of milligrams per kilogram (mg/kg).
- 3. Regulatory Limits are from 19.15.29 New Mexico Administrative Code (NMAC) "Closure Criteria for Soils Impacted by a Release."
- 4. "-" Indicates not analyzed/sampled
- 5. "ft bgs" feet below ground surface.
- 6. \* Field titration results were found to correlate to lab results generally with a multiplier of 2. This was likely due to sample rinse time and calcium corbonate interfernces from the soil
- 7. Results reported below laboratory Sample Detection Limits (SDLs) are preceded by "<".

8. Bold values represent detectable concentrations above the SDLs.

9. Bold and Shaded - Reported concentration exceeds NMAC Regulatory Limits.

10. Results followed by "F1" indicate Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) recovery exceeds laboratory control limits.

11. Soil removed down to very hard/competent rock layer - further sampling not possible.

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Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	413774
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

( 	Created By	Condition	Condition Date
	bhall	Sampling plan and variance request for the requirement to resample previously sampled locations which were missed for BTEX and TPH during the excavation activities are approved. A complete and accurate report (either a complete remediation closure report or remediation plan, whichever is applicable), is due by 2/28/2025.	12/19/2024

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Action 413774