

CORY SMITH

Albuquerque, New Mexico | (505)419-2687 | Cory.Smith@emnrd.nm.gov

SUMMARY

Environmental and regulatory professional with over 15 years of experience in compliance, supervision, and program management across state and private sectors. Skilled in leading teams, interpreting and applying state and federal regulations, and managing complex environmental and operational projects. Recognized for building collaborative relationships with industry, government agencies, and the public, while ensuring protection of natural resources, public health, and community well being. Skilled at program development, staff training, and technical oversight with a proven track record of delivering results in high-stakes regulatory environments.

CORE COMPETENCIES

- Regulatory Compliance & Enforcement
- Operator Training & Compliance Oversight
- Team Leadership & Staff Development
- Water Quality & Groundwater Protection
- Internal Program Development & Implementation
- Technical Writing & Reporting
- Public Communication & Stakeholder Engagement
- Data Analysis & Risk Assessment
- Regulatory Program Development & Policy Implementation

PROFESSIONAL EXPERIENCE

State of New Mexico – EMNRD, Oil Conservation Division

Oct 2021- Present

Environmental Scientist Supervisor

- Lead the Environmental Special Projects team overseeing regulatory compliance and environmental programs across New Mexico.
- Supervise, hire, train, and evaluate staff; manage workload distribution, schedules, and performance reviews.
- Designed and managed the Orphaned Well Plugging & Reclamation Program, including contractor procurement, bid evaluation, and compliance with state/federal requirements.
- Oversaw the groundwater protection program- reviewed/approved remediation work plans, closure reports, implementation of standard operating procedures.
- Developed compliance audits, violation letters, and public notices; managed multiple legal enforcement cases.
- Served as the Division Environmental IT & IPRA liaison, designing online permitting systems, workflows, digital compliance forms, coordinating responses, and key search terms.
- Participated in drafting and implementing state regulations, including the Oil & Gas Release, Produce Water Reuse & Recycling, and the Waste Methane Waste Rules.

State of New Mexico – EMNRD, Oil Conservation Division

Mar 2014- Oct 2021

Environmental Scientist/Specialist

- Reviewed and approved technical permits (pits, tanks, groundwater remediation, waste transport).
- Conducted site inspections, sample collection, audits, and compliance meetings across oil/gas facilities statewide.
- Interpreted hydrology and environmental data to assess risks to groundwater and public health.
- Trained operators, prepared technical guidance documents, and responded to public complaints.
- Investigated releases, directed remediation actions, and ensured regulatory compliance.

CORY SMITH

Albuquerque, New Mexico | (505) 419-2687 | Cory.Smith@emnrd.nm.gov

PROFESSIONAL EXPERIENCE

Elm Ridge Exploration

Apr 2008 - Mar 2014

Instrumentation Technician / Regulatory Compliance Administrator

- Installed, calibrated, troubleshot, and maintained electronic transducers, flow/level meters, and other process control instrumentation to ensure safe and reliable facility operations.
- Developed and maintained compliance documentation for Air Permits, SPCC Plans, Clean Water Act Discharges, and NSR/NOI permitting requirements.
- Managed and administered Leak Detection and Repair (LDAR) programs, including recordkeeping and reporting under KKK/0000 federal standards.
- Responded to pipeline and plant leaks/spills, coordinated remediation activities and ensured compliance with environmental regulations.
- Served as primary liaison with federal, state, and local regulatory agencies to resolve compliance issues and support audits/inspections.
- Coordinated contractor selection, oversight, and performance for environmental and maintenance projects.
- Assisted pipeline and plant operations teams with troubleshooting, operational support, and regulatory training.

Aztec Well Service

May 2004 - May 2007

Motor Man (Seasonal)

- Supported drilling operations and performed routine equipment maintenance.
 - Conducted job safety analyses and adhered to strict safety protocols.
 - Assisted with fluid mixing, rig equipment handling, and general site operations.
-

EDUCATION

San Juan College

A.A.S., Instrumentation Controls Technology

2006 - 2008

RULEMAKING PROCEEDINGS & IMPLEMENTATIONS

- 19.15.34 NMAC - Produce Water, Drilling Fluids, and Liquid Oil Field Waste, 2015
 - 19.15.29 NMAC 0 Release, 2018
 - 19.15.27 NMAC - Venting and Flaring of Natural Gas, 2021
 - 19.15.28 NMAC - Natural Gas Gathering Systems, 2021
-

CERTIFICATIONS & TRAINING

- NIMS: 100b, 200b, 300, 400, 700a, 800c, Basic Public Information Officer (PIO) – G-290
- Extensive training in compliance, enforcement, and regulatory program implementation
- TOPCORE Energy Training (University of Colorado School of Mines, PennState, Texas A&M)
- National Environmental Management Academy
 - Principles of Contaminant Transports and Fate in Soil and Groundwater
 - PFAS Transport, Fate, and Remediation Training

DIRECT TESTIMONY OF CORY SMITH

1 My name is Cory Smith, and I am the Supervisor of the Environmental Special Projects
2 Group of the Energy, Minerals and Natural Resources Department, Oil Conservation
3 Division (“OCD” or “Division”). I hereby present my direct testimony regarding Grand Banks
4 OCD case number 25895. I have an Associates of Applied Science in Instrumentation and
5 Controls Technology from San Juan College. I have served within the OCD for 12 years. I
6 began my career with the OCD in 2014 as an Environmental Specialist in the Aztec Field
7 Office overseeing Part 29 environmental releases and remediations, Part 17 pit
8 registrations, modifications and closures, part 30 ground water remediations, Part 34
9 produced water recycling permits, and general environmental field inspections. In October
10 of 2021 I was promoted to the Environmental Special Project Supervisor. My current role
11 covers a variety of responsibilities, but specific to this case, I was designated as the
12 Environmental Subject Matter Expert (SME) for the task of modernizing OCD environmental
13 submissions (C-141), and implementation of the methane Waste Rule (C-115B, C-129, etc).
14 I have extensive experience with applying OCD rules to Environmental aspects of oil and
15 gas development and their implementation within OCD Permitting. I have been involved in
16 multiple OCC rulemakings to include the release rule, 19.15.29 NMAC, the produced water
17 rule ,19.15.34 NMAC, and the natural gas waste rule (19.15.27 and 19.15.28 NMAC). Prior
18 to my time at the OCD, I served as an Instrumentation Tech / Regulatory Compliance
19 Admin for Elm Ridge Exploration d.b.a BeeLine Gas Systems and a Motor Man for Aztec
20 Well Service where I was exposed to both Exploration and Midstream Operations in the oil
21 and gas Industry. My resume is attached as **Exhibit 1**.

22

DIRECT TESTIMONY OF CORY SMITH

1 Throughout my direct testimony I will discuss various topics such as rule requirements for
2 Part 29, “Release Rule”; Part 27 “Methane Waste Rule”; and how Operators submit C-141
3 and C-129 applications through OCD Permitting.

4

5 In 2018 the OCC revised 19.15.29 NMAC “Releases.” The revised rule outlines the
6 requirements and established procedures operators must follow to secure, report, site
7 characterize, remediate, reclaim, and revegetate unauthorized oil, gases, produced water,
8 condensate, or other oil field related waste/contaminants. The 2018 revision included a
9 transitional clause. Operators with ongoing corrective actions under the prior rule and
10 without approved timelines were required to submit updated remediation plans within 90
11 days. OCD Permitting automatically recorded these extensions as “Site Extension
12 Requests” beginning August 14, 2018. This ensured older incidents were brought into the
13 newer regulatory framework rather than left unresolved.

14

15 There are two classifications of unauthorized releases that are based on volumes and not
16 the contents that were released. A Major Release is a release that is greater than 25 BBLS
17 or 500 MCF (gasses) or any volume in which the release resulted in a fire; with reasonable
18 probability reaches a watercourse; endangers public health, or substantially damages
19 property/environment. A Minor Release is any release that is not a Major release and is
20 greater than 5 BBLS or 50 MCF. All Major and Minor releases are prohibited, which is a
21 violation of 19.15.29 NMAC as of August 24, 2021. OCD Permitting displays the release

DIRECT TESTIMONY OF CORY SMITH

1 severity, status, and stage on the Incident Details page to allow Regulators, Operators, and
2 the public to track progress.

3

4 Operators have the responsibility to initially respond to Major and Minor release as soon as
5 possible by stopping the sources of the release by performing actions such as closing
6 valves, shutting in wells, etc.; containing the release by building earthen berms, deploying
7 absorbent booms, etc.; site stabilization or removing any free liquid; and lastly, Operators
8 may start remediation immediately. Major releases require Operators to provide notice to
9 the OCD, specifically the Environmental Bureau Chief and appropriate Division District
10 Office, within 24 hours of discovery. This task is generally completed by submitting a Notice
11 of Release (NOR) application through OCD Permitting, which automatically sends email
12 notifications to the Environmental Bureau Chief, Incidents Supervisor, Environmental Field
13 Compliance Supervisor, and the assigned OCD reviewer. Operators are not required to
14 submit an initial notice of release within 24 hours for Minor releases. Operators are then
15 required to submit an initial C-141 within 15 days of the date of discovery for both
16 classifications of releases. As described in the C-141 Guidance Document, each C-141
17 submission updates the incident status and stage in OCD Permitting. Dates of receipt,
18 approval, or rejection are stored in OCD Permitting on the Incident Details page, creating a
19 transparent review/compliance timeline. **Exhibit 26.**

20 Operators have 90 days from the date of release discovery to submit a Site
21 Characterization/Remediation plan or a Final Closure report. At this stage of the release

DIRECT TESTIMONY OF CORY SMITH

1 Operators generally must decide on how to approach the remediation of the release. Some
2 limited factors that could affect decision making could be the size/volume of the release,
3 location of the release, distance to landfills/land farms, etc. If the Operator chooses to
4 formally do a Site Characterization/Remediation plan that could include activities such as
5 drilling delineation bore holes, excavating test trenches, and collecting field and laboratory
6 samples following the requirements of 19.15.29.11 NMAC. OCD considers the site to be
7 fully delineated when the vertical and horizontal boundaries of the impacted area have
8 been defined to the Remediation Standards set in Table I of 19.15.29 NMAC, and the top 4'
9 to the Reclamation standards outline in 19.15.29.13 NMAC. Once the site is fully
10 delineated, Operators will submit the Site Characterization data (Depth to Water, Distances
11 to water courses, etc.) along with a proposed Remediation plan/deferral request, that
12 includes remediation timelines, to OCD Permitting within 90 days from the date of
13 discovery following the requirements of 19.15.29.12 NMAC. The proposed remediation
14 plan is reviewed by an OCD Environmental Scientist and either approved (with or without
15 conditions) or rejected. Generally speaking, the most common method of site
16 characterization and remediation that the Division encounters is the "Dig & Haul" method.
17 This method is straight forward in approach and achieves immediate results. Operators
18 who are remediating the release via Dig & Haul may do so "At risk" as this remediation
19 technique generally does not have an approved remediation plan prior to remediation
20 commencing. The Dig & Haul remediation method is done by completing Vertical and
21 Horizontal delineation and remediation through the means of excavation that is guided by
22 field sampling analysis such as field head space analysis, Petroflag/ Field TPH, and

DIRECT TESTIMONY OF CORY SMITH

1 chloride titration strips. Operators will use the field data and/or olfactory sense to
2 determine when to submit the required sampling notice (C-141N) and subsequently collect
3 the 200 square foot laboratory soil confirmation samples as outline in 19.15.29.12.D(1)
4 NMAC. Impacted soils are transported offsite to approved OCD surface waste
5 management facilities. Operators will compile and submit to OCD permitting using form C-
6 141, a report that includes an Executive summary, Site Characterization/Remediation Plan,
7 Remediation closure summary, Laboratory Analysis, scaled site maps, and photos and any
8 other related documentation. OCD Staff will review the submitted report for completeness
9 and compliance, and either approve, approve with conditions, or deny the entire report.
10 OCD Permitting does not allow for partial application approvals. For incidents that
11 occurred within a lined containment, the operator must expose and inspect the liner and
12 certify its integrity. In the event that liner integrity is compromised, Operators will treat the
13 release as if was not in a lined containment, following the Site
14 Characterization/Remediation Plan, Remediation, Reclamation and Vegetation
15 requirements.

16

17 Once the Remediation Closure report has been approved most incidents will stay in the
18 status of "Active" and the stage "Remediation Closure Report Approved, Pending
19 Reclamation Report from Operator." These incidents are considered active, as the operator
20 still must complete reclamation and revegetation. However, reclamation and revegetation
21 for areas that are reasonably needed for production operations or for subsequent drilling
22 operations may be delayed. These areas must be stabilized and maintained to prevent dust

DIRECT TESTIMONY OF CORY SMITH

1 and erosion until those areas are no longer reasonably needed. Once the impacted areas
2 are no longer reasonably needed, the impacted area must be reclaimed to the reclamation
3 standards in the top 4 feet of the impacted area and a reclamation report must be
4 submitted to OCD permitting. All other areas that are not reasonably needed must be
5 reclaimed to the reclamation standards immediately following remediation and are noted
6 in the remediation closure report. These areas are required to be reseeded in the next
7 favorable growing season.

8 Once reclamation has been completed Operators must submit a reclamation report to
9 OCD permitting for approval. The incident will be in a status of "Active" and stage of
10 "Reclamation Report Approved, Pending Revegetation Report from Operator." Due to the
11 climate of New Mexico, it is possible for release sites to not meet the revegetation
12 requirements in the first favorable growing season. Once revegetation requirements have
13 been met, Operators will submit a revegetation closure report to OCD Permitting for review.
14 Upon approval of the revegetation report restoration is considered complete, and the
15 status of the incident will change to "Inactive", and the stage will be "Restoration
16 Complete."

17 During the entire Remediation process Operators have the ability to request an extension of
18 time for Site Characterization/Remediation Plan & Remediation Closure reporting
19 requirements. Operators must provide information showing good cause as determined by
20 the Division as to why an extension is needed. Extensions are handled through
21 email/phone communications and are documented in OCD Permitting in the OCD events
22 details sections for older sites or in the Incident Date section for newer sites.

Brittany Hall

Aztec, New Mexico
Brittany.hall@emnrd.nm.gov
505-517-5333

SKILLS PROFILE

- Supervisory Experience in both field and office setting.
- Skilled with field data collection.
- Skilled in writing technical reports.
- Skilled in reviewing technical reports.
- Proficient in sampling techniques, monitoring, and assessment.
- Proficient using Field Data Recorders, GPS units, and other technical equipment.
- Skilled in project management.
- Recognized for quality use and experience of various software/hardware troubleshooting and instruction.

EDUCATION

Bachelor's Degree Columbia Southern University, Environmental Management- 2017

Associate's Degree San Juan College, Occupational Safety- 2016

WORK EXPERIENCE

Environmental Supervisor-Environmental Field Compliance Group

State of New Mexico EMNRD Oil Conservation Division (OCD) – Aztec, NM – April 2025 to Present

Oversees and manages OCD's Environmental Bureau's Environmental Field Inspections Program to ensure goals and objectives are met.

Assigns and directly supervises the work of the Environmental Incidents and Inspections program

Interviews and recommends selection of applicants.

Conducts training of personnel.

Acts upon leave requests, conducts performance evaluations, and administers disciplinary actions.

Has the expertise to coordinate and implement environmental inspections with OCD staff to ensure that they meet legal requirements.

Advises senior management on management issues.

Has in-depth familiarity with the Oil and Gas Act, the Water Quality Act, and Rules.

Environmental Specialist-A

State of New Mexico EMNRD Oil Conservation Division (OCD) – Aztec, NM – August 2022 to April 2025

Support the Orphan Well/facility Plugging and Reclamation program. Specific duties include reviewing third party inspection reports and making recommendations for action; reviewing all plans for compliance with regulations and all program requirements; and track and manage assigned projects.

Support the OCD Incidents Group with managing and reviewing documentation associated with historic releases. Duties also include communicating program requirements with industry/operators.

Assist with the development and testing of OCD Permitting and Standard Operating Procedures.

Environmental Project Scientist

Envirotech, Inc. - Farmington, NM - July 2017 to August 2022

Emergency spill response

Soil sampling

Water sampling

Air sampling including SVE and vapor intrusion sampling

Phase I and II Site Assessments

Spill cleanups

Project oversight

Synthesizing environmental data to create conceptual site models, contaminant distribution and degradation models, and groundwater flow models

Customer Service Manager

City of Farmington-Farmington Regional Animal Shelter - Farmington, NM - September 2013 to July 2017

Customer Service Data analyst

Intake Manager

General animal care

Build and develop monthly reports

Ensure all city and state ordinances are followed

Ensure the health and safety of employees and animals in the shelter

Anesthesia Technician

San Juan Regional Medical Center - Farmington, NM - April 2012 to September 2013

Maintenance of Anesthesia machines

Turn over operating rooms

Assist anesthesia providers with arterial lines, nerve blocks, etc.

BLS certified

Transport patients

Set up anesthesia machine for cases

General cleanliness of Operating Room

Schedule procedures

Answer phones

Safely handle any infectious material and ensure the health and safety of not only me but the patients as well

TRAINING AND CERTIFICATIONS

First Aid/CPR/AED/Bloodborne Pathogens (expired)

SafeLand Training

Asbestos Awareness (expired)

40-Hour HAZWOPER and 8-Hour Refresher Training (expired)

DIRECT TESTIMONY OF BRITTANY HALL

1 My name is Brittany Hall, and I am the Supervisor for the Environmental Field
2 Compliance Group for the Energy, Minerals and Natural Resources Department, Oil
3 Conservation Division (“OCD” or “Division”). I am providing direct testimony regarding the
4 Notice of Violation (NOV) issued to Buckeye Disposal, LLC, resulting in Division Case No.
5 25894. I have a Bachelor of Science in Environmental Management (2017) from Columbia
6 Southern University and an Associates of Science in Occupational Safety (2016) from San
7 Juan College. I have been the supervisor for the Environmental Field Compliance Group
8 since April 2025. Prior to holding this position, I was a Senior Environmental Specialist with
9 the Division’s Environmental Special Projects group, which I was hired for in August of
10 2022. During my time as a senior environmental specialist my duties were processing C-
11 141 forms; reviewing historical incidents; and assisting with the oversight and coordination
12 of funds to support OCD awarded vendor contracts for environmental assessment,
13 remediation, restoration, and monitoring contract services associated with orphan oil and
14 gas operations. Specific duties for the oversight and coordination for the orphan oil and gas
15 operations included reviewing third party inspection reports and making recommendations
16 for action; reviewing all plans for compliance with regulations and all program
17 requirements; and tracking and managing assigned projects. In April 2025, I was promoted
18 to my current role, and my duties include daily supervisory activities, performing
19 environmental compliance inspections of well sites and facilities, witness confirmation
20 sampling, and reviewing sampling plans. Prior to my time at OCD, I served as an
21 Environmental Project Scientist for Envirotech, which is an environmental consulting

DIRECT TESTIMONY OF BRITTANY HALL

1 company located in Farmington, New Mexico from July 2017 to August 2022. My resume is
2 attached as OCD Exhibit 3.

3 Throughout my direct testimony, I will discuss the timeline of events for each
4 incident listed in the NOV; how the timeline contributed to the civil penalties; and a
5 discussion of the statuses of the Operator's additional open incidents referenced in the
6 NOV. I was directly responsible for drafting the NOV, subject to review and approval by my
7 supervisors.

8 **Incident #nKL1625134663**

9 Based on information provided on the NMOCD Permitting website's Incident page
10 for nKL1625134663, this release was discovered by OCD employees during a field visit on
11 August 16, 2016. On the same day, notification was made to representative of Buckeye
12 Disposal LLC (Operator) that a C-141 needed to be submitted. Additional notes state "the
13 site was in terrible condition. Liner ripped in south eastern corner, 1-1/2 foot of asfalteens
14 [sic] layered with salt crystals." OCD told the operator that the C-141 needed to be filed by
15 September 1, 2016. A call was made to the operator on September 1, 2016, due to a C-141
16 not being received. The OCD told the operator that if a C-141 was not filed that the operator
17 would receive a Notice of Violation for failure to report. The incident details page is
18 included as **Exhibit 11**. The initial C-141 was received on September 1, 2016. The initial C-
19 141 was approved with conditions on September 7, 2016. The conditions of approval
20 included:

DIRECT TESTIMONY OF BRITTANY HALL

1 “Submit Remediation Proposal no Later than 10/7/2016. Provide depth to Ground
2 Water Delineate and Remediate per NMOCD Guidelines. Discrete Samples
3 Accepted ONLY. NMOCD must approve all site investigation & Corrective Activities
4 prior to implementation. Corrective action is site specific and risk based. NMOCD
5 retains the right to require remediation to more stringent levels than proposed in
6 guidelines if warranted by site specific conditions. Notify NMOCD prior to all
7 sampling, to allow opportunity for witness sampling operations.”

8 The Operator submitted a Remediation plan dated October 3, 2016, but the OCD marked
9 “Information Only” which indicates the remediation plan was not approved. Except for a
10 single day fee, for a total of \$1,500, for having a release, the Operator did not incur any civil
11 penalties for any of the aforementioned actions.

12 Per 19.15.29.16 B. NMAC, Responsible parties with ongoing corrective
13 actions/remediation without approved timelines or plans as of August 14, 2018, must
14 submit a Characterization plan or corrective action/Remediation plan with proposed
15 timeframes within 90 days of August 14, 2018. The Operator did not submit a
16 characterization plan or corrective action/remediation plan with proposed timeframes
17 within 90 days of August 14, 2018. OCD received a report titled *Work Plan for*
18 *Characterization and Remediation of State AF #003 SWD Site* on August 16, 2019. This work
19 plan gives a brief timeline of the incidents, including a summary of emails between the
20 Operator and the New Mexico State Land Office (SLO). This section of the work plan
21 describes actions that the Operator would perform to characterize site conditions. The
22 steps included cleaning and inspection of the liner, sampling and analysis of soils beneath

DIRECT TESTIMONY OF BRITTANY HALL

1 the liner and outside the containment area, construction of a berm or other containment to
2 prevent fluids from migrating off-site, removal of all unnecessary equipment from the site,
3 and maintenance of the access road. A description of soil sampling activities that were
4 performed on February 14, 2019, are described and the soil sampling results obtained from
5 this event are compared to the least stringent closure criteria found on Table I of 19.15.29
6 NMAC. The work plan then states “Chloride concentrations in soil samples collected
7 around the containment area in February 2019 range from 960 to 5,520 mg/kg, all well
8 below the OCD numerical limit. Based on these results, chloride concentrations in soil
9 outside the containment area do not require remediation.” The work plan also contains
10 proposed actions in including removal and disposal of the damaged liner from the
11 containment area; inspect the condition of the soil beneath the liner; collect soil samples
12 from six locations and analyze those samples for total petroleum hydrocarbons(TPH),
13 including gasoline-range organics (GRO) (C8-C10), diesel-range organics (DRO) (>C10-
14 C28), and motor oil-range organics (MRO) (>C28-C36) (TPH) and benzene, toluene,
15 ethylbenzene, and xylenes (BTEX), and chloride; collect soil from two of the February 2019
16 sampling locations that had the highest chloride concentrations to reanalyze for TPH and
17 BTEX as these compounds were not analyzed in February 2019 sampling event. The
18 proposed actions also include comparing the analytical results to the least stringent
19 closure criteria found on Table I of 19.15.29 NMAC to evaluate if additional samples are
20 needed to establish the lateral and vertical extent of the contamination. Once the lateral
21 and vertical extents of the contamination had been established, the Operator then
22 proposed to remove and dispose of contaminated soils, backfill the excavations with clean

DIRECT TESTIMONY OF BRITTANY HALL

1 and compacted soil, and install a new HDPE liner within the containment. This work plan
2 was denied by the OCD on January 29, 2020, for the following reasons:

3 “Horizontal delineation is not complete. Buckeye will need to further assess the
4 horizontal limits of the release to 600 mg/kg. NMOCD recommends for Buckeye
5 Disposal to provide additional sampling locations for preapproval. Depth to
6 groundwater is not adequately identified. When nearby wells are used to determine
7 depth to groundwater, the wells should be no further than ½ mile away from the site,
8 and data should be no more than 25 years old, and well construction information
9 should be provided. Buckeye Disposal (Buckeye) will need to drill a borehole on site
10 to 51’ bgs and leave it open for at least 24 hours. If there is no evidence of ground
11 water after 24 hours, the OCD will review Buckeye’s remediation plan with a copy of
12 the driller’s log (see stipulations below). If Buckeye chooses not to drill a borehole to
13 confirm depth to groundwater, the impacted area will need to be further delineated
14 to closure criteria for water at a depth of <50’. For further clarifications regarding the
15 implementation of the spill rule, visit the OCD website:
16 [http://www.emnrd.state.nm.us/OCD/documents/OCDInternalPolicy-](http://www.emnrd.state.nm.us/OCD/documents/OCDInternalPolicy-SpillRuleClarifications.pdf)
17 [SpillRuleClarifications.pdf](http://www.emnrd.state.nm.us/OCD/documents/OCDInternalPolicy-SpillRuleClarifications.pdf). NMOCD recommends soil assessment to 4 feet below
18 ground surface or to 600 mg/kg, whichever comes first, to determine the potential
19 vertical remedial efforts. In the future, a completed C-141 must be included with the
20 submittal of incident related documents on the fee portal.”

21 The work plan and the OCD’s denial email is included as **Exhibit 10**.

DIRECT TESTIMONY OF BRITTANY HALL

1 The next event that occurred for this incident was a ninety (90) day extension
2 request. The extension was requested by the Operator as “they are working with the State
3 Land Office and need time to coordinate field activities and obtain access and clearances
4 (i.e., cultural compliance). Results of the characterization activities will be used to develop
5 the remediation plan.” The NOV states that this occurred on February 2, 2024, but this is a
6 typo and the extension was requested on February 1, 2024. The OCD approved the
7 extension request on February 1, 2024, and set the new due date to May 2, 2024, as the
8 Operator requested. The email chain for the request and the approval is included in **Exhibit**
9 **12.**

10 On May 2, 2024, the new due date set by the extension request, the Operator failed
11 to submit a complete and accurate Site Characterization and Remediation Plan in violation
12 of *19.15.29.11 NMAC*, and *19.15.29.12 NMAC*. On July 1, 2024, the OCD reached out to the
13 Operator via email asking for an update on the submission of the Site Characterization and
14 Remediation Plan as the incident was 60 days out of compliance. The Operator responded
15 on July 2, 2024, stating:

16 “The State Land Office approved Buckeye’s site assessment plan (SAP) last Friday
17 (6/28/2024). As you know, the investigation activities proposed in the SAP are
18 needed for the Site Characterization and Remediation Plan that we intend to submit
19 to OCD. We’ve been including you on the emails to SLO regarding the SAP to keep
20 you updated but should have formally requested another extension. I apologize. I
21 was under the impression that meeting the additional requirements of SLO was
22 inline with us also meeting your expectations for the two documented releases and

DIRECT TESTIMONY OF BRITTANY HALL

1 collection of data to support remediation and reclamation. We intend to report all
2 data collected during implementation of the SAP to OCD in the Site
3 Characterization and Remediation Plan. SLO just approved the SAP. We still need to
4 obtain a Right-of-Entry permit and consult with the SLO Cultural Resources Office.
5 I'm starting these additional requirements this week and will have a better idea of
6 when we can start investigation activities and submit the Site Characterization and
7 Remediation Plan to OCD after I make headway on these two requirements.”

8 The email chain regarding the requested update is included in **Exhibit 13**.

9 On September 17, 2024, the OCD sent another email to the Operator as the incident
10 was still out of compliance and the OCD had not received a Site Characterization and
11 Remediation Plan submittal. Additionally, OCD made the Operator aware that no additional
12 extension requests would be approved. OCD also made the Operator aware that
13 enforcement discretion would be used to determine if additional enforcement action is
14 warranted. The Operator responded back on September 18, 2024, to acknowledge the
15 receipt of the email and to inform the OCD that they will be consulting with their legal
16 counsel before sending a formal response. The Operator sent an additional email on
17 September 23, 2024, stating that there was a delay with the right of way paperwork, a
18 cultural resources survey had to be completed, and that the ground at the location is very
19 hard with will necessitate the need for a drill rig to collect the samples. The email also
20 stated: “Please consider this communication to represent our intentions and
21 understanding of the seriousness and urgency of this matter. We not only aim to avoid
22 penalties, but we want to get this project completed and move forward without delay.” OCD

DIRECT TESTIMONY OF BRITTANY HALL

1 responded on the same day requesting to be kept informed of activities occurring at the
2 site, if all SLO requirements had been completed and if the delineation plan could be
3 implemented, if additional sampling had been performed, and what dates the driller would
4 be available to install the soil borings. OCD received a response from the Operator on
5 September 24, 2024, stating that to their understanding, all requirements from SLO had
6 been completed and they were waiting on the driller's schedule to implement the SLO
7 approved delineation plan and no additional sampling had been completed since May
8 2023. The email chain regarding the requested update is included in **Exhibit 14**.

9 On October 7, 2024, OCD sent an email to the Operator requesting information
10 regarding when the drill rig would be moved to the site to begin drilling. OCD sent an
11 additional email on November 19, 2024, requesting a detailed timeframe for the
12 remediation and reclamation of the incident. On December 5, 2024, OCD was included on
13 an email the Operator sent to SLO stating:

14 "I am sorry, it looks like we might have missed this email from Britany in the
15 Thanksgiving craziness. We are having bi-weekly meetings with John regarding this
16 project. From our last meeting, it is my understanding that we are just waiting on a
17 date from the driller. We discussed the option of using a backhoe to accelerate the
18 sampling, but decided that we will need to wait for the driller as we ran into some
19 very hard layers that the backhoe couldn't break through when we collected the
20 prior samples that were presented to you all last year. I will follow up with John today
21 to verify that this is still the status. I believe the holidays have caused some delays
22 in scheduling. I will send a follow up to this email after speaking with John."

DIRECT TESTIMONY OF BRITTANY HALL

1 OCD responded to this email on the same day stating:

2 “As requested on November 19, 2024, please send a detail timeframe for the
3 remediation and reclamation of incident numbers nOY1813152090 and
4 nKL1625134663. Include any correspondence from all drilling contractors that have
5 been contacted, including correspondence on when rigs are available. Additionally,
6 please include a timeline of events that have occurred since the date of discovery of
7 each incident. These incidents had due dates of May 2, 2024, which was 217 days
8 ago. Per previous emails, the EM survey was completed on October 8th and the
9 results were being processed. Has that been completed? If so, please send a copy
10 of the EM survey with the requested timeframe and timeline.”

11 The Operator responded via email on December 6, 2024, stating:

12 “We are analyzing the EM survey data now and expect to be done in a week or two. I
13 understand that it’s taking longer than expected to address remediation and
14 reclamation of incidents nOY1813152090 and nKL1625134663; however, our
15 investigation area covers a much larger region than where the two spills occurred
16 (i.e., within the former AST containment) and we are also trying to satisfy SLO
17 requests. We’ll let you know once analysis of the EM survey data is complete and
18 have scheduled drilling. After the investigation work is complete, we’ll be in a better
19 position to provide a schedule for remediation and reclamation.”

20 The email chain regarding the requested update is included in **Exhibit 15**.

DIRECT TESTIMONY OF BRITTANY HALL

1 On January 7, 2025, the Operator copied OCD in a response to SLO stating:
2 “Attached is a figure summarizing the EM survey results at the Buckeye State AF
3 #003 site. We used linear regression to provide a preliminary estimate of areas
4 exceeding 600-mg/kg chloride and to delineate potential excavation areas. The
5 linear regression uses soil chloride data from the December 2023 soil sampling.
6 Please note: there are a few areas with elevated TPH that are not addressed on the
7 attached figure and that actual excavation areas will likely be more square and
8 rectangle. The EM survey was conducted in October 2023. We contracted Atkins
9 Engineering to complete the survey. They also captured an aerial photograph of the
10 site with a drone. The aerial is shown in the attached figure. The EM survey was
11 completed using both an EM31 and EM38, and by varying coil spacing and
12 orientation so that we could image different depths. These data are in the GIS we
13 used to prepare the attached figure. We’re going to place the raw data on separate
14 maps and send them to you in a separate email (hopefully later today or tomorrow).
15 We’ve obtained a quote from Atkins Engineering to complete the borehole
16 investigation. I’ve considered modifying the borehole investigation work some
17 based on the EM survey results but need to discuss it more with Buckeye. We’ll
18 obtain SLO approval before moving forward with any changes.”

19 OCD responded to the email on January 8, 2025, stating: “Thank you for the information. As
20 Buckeye Disposal, L.L.C. (222759) has not met previous conditions stipulated by the OCD,
21 Buckeye Disposal and these incidents are now under a compliance review.” A copy of the
22 email chain and the attachments supplied by the operator are included in **Exhibit 16**.

DIRECT TESTIMONY OF BRITTANY HALL

1 On April 8, 2025, the NOV was issued to the Operator. **Exhibit 8.**

2 On April 11, 2025, the Operator submitted a Site Characterization and Remediation
3 Plan to the OCD through the OCD Permitting website. This report included a description of
4 the site resources including a description of the biological, cultural, soil, and water
5 resources; a brief description of the releases and initial soil characterization activities; a
6 description of additional soil characterization activities that occurred in December 2023
7 through January 2025; and a proposed remediation and reclamation plan. The proposed
8 remediation and reclamation plan included advancing two exploratory borings to delineate
9 the vertical extent of soil impacts and excavating the impacted soil from a depth of up to 5
10 feet and replace it with clean fill or in regions where soil impacts exist to depths of at least
11 4 feet, impacted soil would be removed to 5 feet to allow the placement of 0.5 to 1 foot of
12 low-permeability clay at the base of excavations and at least 4 feet of clean top soil above
13 the clay to support vegetation. Once the soils were excavated and backfilled, the areas
14 would be graded and reseeded to restore them pursuant to 19.15.29.13 NMAC or SW-324,
15 which are the New Mexico State Land Office requirements. These actions were going to be
16 implemented on the former well pad and the pad of the former tank battery with the
17 exceptions of two locations which included the “wash south of the former tank battery
18 location and the suspected reserve pit north of the former State AF #003 SWD well.” The
19 report states there are “areas of impacted soil not caused by Buckeye operations.” The
20 OCD denied the Site Characterization and Remediation plan on May 6, 2025, for incorrectly
21 answering questions on the form C-141; incorrectly characterizing the closure criteria;
22 OCD denied the proposal to excavate soils to a depth of 5 feet and placing a 0.5 to 1 foot

DIRECT TESTIMONY OF BRITTANY HALL

1 layer of clay at the base of the excavation; OCD denied the proposed excavation areas
2 identified in the report as the entire release area must be delineated and excavated to the
3 most stringent closure criteria; OCD denied the “anticipated confirmation sample
4 locations” depicted in the report as the full extent of contamination would not be
5 represented by the sample locations. A copy of the submitted site characterization and
6 remediation plan and the reasons of rejection are included as **Exhibit 17**.

7 **Incident #nOY1813152090**

8 An Initial C-141 was received on May 11, 2026, for a 30-barrel produced water
9 release. The Initial C-141 indicates that all produced water was recovered as the release
10 occurred within a lined containment. Based on information provided on the OCD
11 Permitting website Incident page for nOY1813152090, a release was discovered by SLO
12 employees during a field visit in January 2018 and impacts outside of the containment were
13 observed. A copy of the initial C-141 is included as **Exhibit 18**. A copy of the Incident
14 Details page is included as **Exhibit 19**.

15 Per 19.15.29.16 B. NMAC, Responsible parties with ongoing corrective
16 actions/remediation without approved timelines or plans as of August 14, 2018, must
17 submit a characterization plan or corrective action/remediation plan with proposed
18 timeframes within 90 days of August 14, 2018. The Operator did not submit a Site
19 Characterization plan or corrective action/Remediation plan with proposed timeframes
20 within 90 days of August 14, 2018. OCD received a report titled *Work Plan for*
21 *Characterization and Remediation of State AF #003 SWD Site* on August 16, 2019. This work

DIRECT TESTIMONY OF BRITTANY HALL

1 plan gives a brief timeline of the incidents, including a summary of emails between the
2 Operator and the New Mexico State Land Office (SLO). This section of the work plan
3 describes actions that the Operator would perform to characterize site conditions. The
4 steps included cleaning and inspection of the liner, sampling and analysis of soils beneath
5 the liner and outside the containment area, construction of a berm or other containment to
6 prevent fluids from migrating off-site, removal of all unnecessary equipment from the site,
7 and maintenance of the access road. A description of soil sampling activities that were
8 performed on February 14, 2019, are described and the soil sampling results obtained from
9 this event are compared to the least stringent closure criteria found on Table I of 19.15.29
10 NMAC. The work plan then states “Chloride concentrations in soil samples collected
11 around the containment area in February 2019 range from 960 to 5,520 mg/kg, all well
12 below the OCD numerical limit. Based on these results, chloride concentrations in soil
13 outside the containment area do not require remediation.” The work plan also contains
14 proposed actions in including removal and disposal of the damaged liner from the
15 containment area; inspect the condition of the soil beneath the liner; collect soil samples
16 from six locations and analyze those samples for total petroleum hydrocarbons (TPH),
17 including gasoline-range organics (GRO) (C8-C10), diesel-range organics (DRO) (>C10-
18 C28), and motor oil-range organics (MRO) (>C28-C36) (TPH) and benzene, toluene,
19 ethylbenzene, and xylenes (BTEX), and chloride; collect soil from two of the February 2019
20 sampling locations that had the highest chloride concentrations to reanalyze for TPH and
21 BTEX as these compounds were not analyzed in February 2019 sampling event. The
22 proposed actions also include comparing the analytical results to the least stringent

DIRECT TESTIMONY OF BRITTANY HALL

1 closure criteria found on Table I of 19.15.29 NMAC to evaluate if additional samples are
2 needed to establish the lateral and vertical extent of the contamination. Once the lateral
3 and vertical extents of the contamination had been established, the operator then
4 proposed to remove and dispose of contaminated soils, backfill the excavations with clean
5 and compacted soil, and install a new HDPE liner within the containment. This work plan
6 was denied by the OCD on January 29, 2020, for the following reasons:

7 “Horizontal delineation is not complete. Buckeye will need to further assess the
8 horizontal limits of the release to 600 mg/kg. NMOCD recommends for Buckeye
9 Disposal to provide additional sampling locations for preapproval. Depth to
10 groundwater is not adequately identified. When nearby wells are used to determine
11 depth to groundwater, the wells should be no further than ½ mile away from the site,
12 and data should be no more than 25 years old, and well construction information
13 should be provided. Buckeye Disposal (Buckeye) will need to drill a borehole on site
14 to 51’ bgs and leave it open for at least 24 hours. If there is no evidence of ground
15 water after 24 hours, the OCD will review Buckeye’s remediation plan with a copy of
16 the driller’s log (see stipulations below). If Buckeye chooses not to drill a borehole to
17 confirm depth to groundwater, the impacted area will need to be further delineated
18 to closure criteria for water at a depth of <50’. For further clarifications regarding the
19 implementation of the spill rule, visit the OCD website:

20 [http://www.emnrd.state.nm.us/OCD/documents/OCDInternalPolicy-](http://www.emnrd.state.nm.us/OCD/documents/OCDInternalPolicy-SpillRuleClarifications.pdf)
21 [SpillRuleClarifications.pdf](http://www.emnrd.state.nm.us/OCD/documents/OCDInternalPolicy-SpillRuleClarifications.pdf). NMOCD recommends soil assessment to 4 feet below
22 ground surface or to 600 mg/kg, whichever comes first, to determine the potential

DIRECT TESTIMONY OF BRITTANY HALL

1 vertical remedial efforts. In the future, a completed C-141 must be included with the
2 submittal of incident related documents on the fee portal.”

3 The work plan and the OCD’s denial email is included as **Exhibit 10**.

4 On September 13, 2023, the Operator submitted a Site Characterization &
5 Remediation plan. The Remediation plan included a description of the release and the
6 initial soil characterization that occurred in February of 2019. A section of the report also
7 describes additional soil characterization that took place in February and May of 2023. The
8 remediation plan also included a proposed plan and approach to restore and reclaim the
9 impacted surface area. The Operator proposed to grade and revegetate the impacted area,
10 without remediation, since the “chloride and TPH concentrations of the soil samples
11 collected at the site in both 2019 and 2023 are below the OCD numerical limits prescribed
12 in Table 1 of 19.15.29.12 NMAC for groundwater deeper than 100 feet bgs.” The
13 Remediation plan was denied by the OCD on September 19, 2023. The reasons of rejection
14 included the rejection of the analytical results for the samples collected because the total
15 petroleum hydrocarbons were not analyzed using an acceptable method and all laboratory
16 reports indicate that the samples were not received at the proper temperature and were
17 not received by the laboratories on ice; all samples were not analyzed for all the
18 constituents listed on Table I; the release occurred within 1000 feet of any fresh water well
19 or spring and the responsible party must treat the release as if it occurred less than 50 feet
20 to ground water in Table I of 19.15.29.12 NMAC pursuant to Per 19.15.29.12 C.(4) NMAC;
21 and there is a playa lake located southeast of SB-08. Horizontal and vertical delineation of
22 the site will need to include sample points that will assess if the playa lake has been

DIRECT TESTIMONY OF BRITTANY HALL

1 impacted by the release. The Operator was given a new remediation due date of December
2 19, 2023, to submit a complete and accurate report through the OCD Permitting website.
3 The Site Characterization & Remediation plan, and the reason of rejections are included in
4 **Exhibit 21.**

5 On December 5, 2023, the Operator submitted an extension request via email to the
6 OCD. The reason an extension request was needed was “Last week, Buckeye collected soil
7 samples to better delineate soil impacts and meet the analytical criteria specified in your
8 email below. The samples were submitted to Cardinal Laboratories in Hobbs.” The
9 Operator requested a 45-day extension with a new remediation due date of February 2,
10 2024. OCD approved this extension request. **Exhibit 22.**

11 The next event that occurred for this incident was a ninety (90) day extension
12 request. The extension was requested by the Operator as “they are working with the State
13 Land Office and need time to coordinate field activities and obtain access and clearances
14 (i.e., cultural compliance). Results of the characterization activities will be used to develop
15 the remediation plan.” The NOV states that this occurred on February 2, 2024, but this is a
16 typo and the extension was requested on February 1, 2024. The OCD approved the
17 extension request on February 1, 2024, and set the new remediation due date to May 2,
18 2024, as the Operator requested. The email chain for the request and the approval is
19 included in **Exhibit 12.**

DIRECT TESTIMONY OF BRITTANY HALL

1 On May 2, 2024, the new remediation due date set by the extension request, the
2 Operator failed to submit a complete and accurate Site Characterization and Remediation
3 Plan in violation of *19.15.29.11 NMAC*, and *19.15.29.12 NMAC*.

4 On July 1, 2024, the OCD reached out to the Operator via email asking for an update
5 on the submission of the Site Characterization and Remediation Plan as the incident was
6 60 days out of compliance. The Operator responded on July 2, 2024, stating “The State
7 Land Office approved Buckeye’s site assessment plan (SAP) last Friday (6/28/2024). As you
8 know, the investigation activities proposed in the SAP are needed for the Site
9 Characterization and Remediation Plan that we intend to submit to OCD. We’ve been
10 including you on the emails to SLO regarding the SAP to keep you updated but should have
11 formally requested another extension. I apologize. I was under the impression that meeting
12 the additional requirements of SLO was inline with us also meeting your expectations for
13 the two documented releases and collection of data to support remediation and
14 reclamation. We intend to report all data collected during implementation of the SAP to
15 OCD in the Site Characterization and Remediation Plan. SLO just approved the SAP. We still
16 need to obtain a Right-of-Entry permit and consult with the SLO Cultural Resources Office.
17 I’m starting these additional requirements this week and will have a better idea of when we
18 can start investigation activities and submit the Site Characterization and Remediation
19 Plan to OCD after I make headway on these two requirements.” The email chain regarding
20 the requested update is included in **Exhibit 13**.

21 On September 17, 2024, the OCD sent another email to the Operator as the incident
22 was still out of compliance and the OCD had not received a Site Characterization and

DIRECT TESTIMONY OF BRITTANY HALL

1 Remediation Plan submittal. Additionally, OCD made the Operator aware that no additional
2 extension requests would be approved. OCD also made the operator aware that
3 enforcement discretion would be used to determine if additional enforcement action is
4 warranted. The Operator responded back on September 18, 2024, to acknowledge the
5 receipt of the email and to inform the OCD that they will be consulting with their legal
6 counsel before sending a formal response. The operator sent an additional email on
7 September 23, 2024, stating that there was a delay with the right of way paperwork, a
8 cultural resources survey had to be completed, and that the ground at the location is very
9 hard with will necessitate the need for a drill rig to collect the samples. The email also
10 stated “Please consider this communication to represent our intentions and understanding
11 of the seriousness and urgency of this matter. We not only aim to avoid penalties, but we
12 want to get this project completed and move forward without delay.” OCD responded on
13 the same day requesting that requested to be kept informed of activities occurring at the
14 site, if all SLO requirements had been completed and if the delineation plan could be
15 implemented, if additional sampling had been performed, and what dates the driller would
16 be available to install the soil borings. OCD received a response from the operator on
17 September 24, 2024, stating that to their understanding, all requirements from SLO had
18 been completed and they were waiting on the driller’s schedule to implement the SLO
19 approved delineation plan and no additional sampling had been completed since May
20 2023. The email chain regarding the requested update is included in **Exhibit 14**.

21 On October 7, 2024, OCD sent an email to the Operator requesting information
22 regarding when the drill rig would be moved to the site to begin drilling. OCD sent an

DIRECT TESTIMONY OF BRITTANY HALL

1 additional email on November 19, 2024, requesting a detailed timeframe for the
2 remediation and reclamation of the incident. On December 5, 2024, OCD was included on
3 an email the operator sent to SLO stating:

4 "I am sorry, it looks like we might have missed this email from Britany in the
5 Thanksgiving craziness. We are having bi-weekly meetings with John regarding this
6 project. From our last meeting, it is my understanding that we are just waiting on a
7 date from the driller. We discussed the option of using a backhoe to accelerate the
8 sampling, but decided that we will need to wait for the driller as we ran into some
9 very hard layers that the backhoe couldn't break through when we collected the
10 prior samples that were presented to you all last year. I will follow up with John today
11 to verify that this is still the status. I believe the holidays have caused some delays
12 in scheduling. I will send a follow up to this email after speaking with John."

13 OCD responded to this email on the same day stating:

14 "As requested on November 19, 2024, please send a detail timeframe for the
15 remediation and reclamation of incident numbers nOY1813152090 and
16 nKL1625134663. Include any correspondence from all drilling contractors that have
17 been contacted, including correspondence on when rigs are available. Additionally,
18 please include a timeline of events that have occurred since the date of discovery of
19 each incident. These incidents had due dates of May 2, 2024, which was 217 days
20 ago. Per previous emails, the EM survey was completed on October 8th and the

DIRECT TESTIMONY OF BRITTANY HALL

1 results were being processed. Has that been completed? If so, please send a copy
2 of the EM survey with the requested timeframe and timeline.”

3 The Operator responded via email on December 6, 2024:

4 “We are analyzing the EM survey data now and expect to be done in a week or two. I
5 understand that it’s taking longer than expected to address remediation and
6 reclamation of incidents nOY1813152090 and nKL1625134663; however, our
7 investigation area covers a much larger region than where the two spills occurred
8 (i.e., within the former AST containment) and we are also trying to satisfy SLO
9 requests. We’ll let you know once analysis of the EM survey data is complete and
10 have scheduled drilling. After the investigation work is complete, we’ll be in a better
11 position to provide a schedule for remediation and reclamation.”

12 The email chain regarding the requested update is included in **Exhibit 15**.

13 On January 7, 2025, the Operator copied OCD in a response to SLO stating:

14 “Attached is a figure summarizing the EM survey results at the Buckeye State AF
15 #003 site. We used linear regression to provide a preliminary estimate of areas
16 exceeding 600-mg/kg chloride and to delineate potential excavation areas. The
17 linear regression uses soil chloride data from the December 2023 soil sampling.
18 Please note: there are a few areas with elevated TPH that are not addressed on the
19 attached figure and that actual excavation areas will likely be more square and
20 rectangle. The EM survey was conducted in October 2023. We contracted Atkins
21 Engineering to complete the survey. They also captured an aerial photograph of the

DIRECT TESTIMONY OF BRITTANY HALL

1 site with a drone. The aerial is shown in the attached figure. The EM survey was
2 completed using both an EM31 and EM38, and by varying coil spacing and
3 orientation so that we could image different depths. These data are in the GIS we
4 used to prepare the attached figure. We're going to place the raw data on separate
5 maps and send them to you in a separate email (hopefully later today or tomorrow).
6 We've obtained a quote from Atkins Engineering to complete the borehole
7 investigation. I've considered modifying the borehole investigation work some
8 based on the EM survey results but need to discuss it more with Buckeye. We'll
9 obtain SLO approval before moving forward with any changes."

10 OCD responded to the email on January 8, 2025, stating "Thank you for the information. As
11 Buckeye Disposal, L.L.C. (222759) has not met previous conditions stipulated by the OCD,
12 Buckeye Disposal and these incidents are now under a compliance review." A copy of the
13 email chain and the attachments supplied by the operator are included in **Exhibit 16**.

14 On March 4, 2025, the Operator submitted a Site Characterization and Remediation
15 plan. This Remediation plan included a description of the soils and water resources at the
16 site; a description of the release; an overview of the initial and December 2023 soil
17 characterization activities; an overview of the site assessment plan activities that took
18 place in October 2024 and January 2025; and a proposed remediation and reclamation
19 plan. The remediation and reclamation plan was to be achieved by excavating impacted
20 soil from a depth of up to 4 feet and replace it with clean fill' grading of the remediated
21 areas; and reseeding the remediated areas. The Operator also stated that soils would only
22 be excavated to 4 feet unless "field screening and confirmation soil sampling data indicate

DIRECT TESTIMONY OF BRITTANY HALL

1 that soil meets the aforementioned standards or consolidated caliche or bedrock is
2 encountered and cannot be penetrated.” The plan also included a plan to collect
3 confirmation soil samples which included a statement stating “Buckeye will attempt to
4 determine the vertical extent of TPH impacts to soil at the former tank battery location
5 during soil removal. The January 2025 soil sampling results showed TPH impacts to soil to 8
6 feet bgs (final depth investigated). The sampling results exceeded the most stringent OCD
7 numerical limit for TPH (100 mg/kg). The TPH impacts appear to be limited to the area of
8 the lined secondary containment.”

9 On March 12, 2025, the OCD rejected the Remediation plan. The reasons of
10 rejection included the release occurred within 1000 feet of any fresh water well or spring
11 and the responsible party must treat the release as if it occurred less than 50 feet to ground
12 water in Table I of 19.15.29.12 NMAC pursuant to Per 19.15.29.12 C.(4) NMAC, as was
13 stated in the last remediation plan rejection; there were several C-141 questions that
14 related to distances from a wetland, karst geology occurrence, occurrence of
15 contamination outside of exploration, development, production, or storage sites and if the
16 release was entirely within a lined containment that were answered incorrectly; and
17 vertical delineation was incomplete. Additionally, the OCD informed the Operator that the
18 attempt to excavate soil to a depth of 4 feet unless one of the following conditions is met:
19 (1) field screening and confirmation soil sampling data indicate that soil meets the
20 aforementioned standards or (2) consolidated caliche or bedrock is encountered and
21 cannot be penetrated and the excavation of impacted soil from a depth of up to 4 feet and
22 replacing it with clean fill was not approved. OCD also rejected the use of all samples

DIRECT TESTIMONY OF BRITTANY HALL

1 collected on December 1, 2023, due to qualifiers from the lab that stated "Sample
2 container had headspace. Results may be biased low." OCD included the definition of
3 "Responsible party" pursuant to 19.15.29.7 C. NMAC in the reason of rejection to inform
4 the Operator that OCD will hold the Operator of the site responsible for all releases that
5 occurred at the site, including any pipeline releases that may have affected the site. The
6 Operator was also informed that the submitted report was not applicable to incident
7 number NKL1625134663 as the report was not submitted under NKL1625134663. The
8 Operator was required to submit a complete and accurate report through the OCD
9 Permitting website by April 11, 2025. The remediation plan and reason of rejection are
10 included in **Exhibit 23**.

11 On April 8, 2025, the NOV was issued to the Operator. **Exhibit 8**.

12 On April 11, 2025, the Operator submitted a Site Characterization and Remediation
13 Plan to the OCD through the OCD Permitting website. This report included a description of
14 the site resources including a description of the biological, cultural, soil, and water
15 resources; a brief description of the releases and initial soil characterization activities; a
16 description of additional soil characterization activities that occurred in December 2023
17 through January 2025; and a proposed remediation and reclamation plan. The proposed
18 remediation and reclamation plan included advancing two exploratory borings to delineate
19 the vertical extent of soil impacts and excavating the impacted soil from a depth of up to 5
20 feet and replace it with clean fill or in regions where soil impacts exist to depths of at least
21 4 feet, impacted soil would be removed to 5 feet to allow the placement of 0.5 to 1 foot of
22 low-permeability clay at the base of excavations and at least 4 feet of clean top soil above

DIRECT TESTIMONY OF BRITTANY HALL

1 the clay to support vegetation. Once the soils were excavated and backfilled, the areas
2 would be graded and reseeded to restore them pursuant to 19.15.29.13 NMAC or SW-324,
3 which are the New Mexico SLO requirements. These actions were going to be implemented
4 on the former well pad and the pad of the former tank battery with the exceptions of two
5 locations which included the “wash south of the former tank battery location and the
6 suspected reserve pit north of the former State AF #003 SWD well”. The report states there
7 are “areas of impacted soil not caused by Buckeye operations”. The OCD denied the Site
8 Characterization and Remediation plan on May 6, 2025, for incorrectly answering
9 questions on the form C-141; incorrectly characterizing the closure criteria; OCD denied
10 the proposal to excavate soils to a depth of 5 feet and placing a 0.5 to 1 foot layer of clay at
11 the base of the excavation; OCD denied the proposed excavation areas identified in the
12 report as the entire release area must be delineated and excavated to the most stringent
13 closure criteria; OCD denied the “anticipated confirmation sample locations” depicted in
14 the report as the full extent of contamination would not be represented by the sample
15 locations. A copy of the submitted site characterization and remediation plan and the
16 reasons of rejection are included as **Exhibit 17**.

17 **Calculation of Civil Penalties**

18 The civil penalties were calculated for five (5) separate violations per incident for a
19 total of ten (10) separate violations. **Exhibit 9**. The proposed penalties were calculated by
20 me and approved by OCD leadership as of January 9, 2025. OCD has not proposed to
21 update or modify the proposed penalties since. Each incident violated 19.15.29.(A) NMAC
22 which prohibits major and minor releases, 19.15.29.11 NMAC due to failure to submit an

DIRECT TESTIMONY OF BRITTANY HALL

1 approvable release characterization, 19.15.29.12 NMAC due to failure to submit an
2 approvable remediation plan, 19.15.29.12 NMAC due to failure to submit an approval
3 remediation closure report, and 19.15.5.11 NMAC for failing to comply with term,
4 condition, or provision of a permit, administrative order, authorization, or approval.

5 The violation of 19.15.29.(A) NMAC was calculated as a “single day” penalty. The
6 violations of 19.15.29.11(failure to submit release characterization) and 19.15.29.12 NMAC
7 (failure to submit an approvable remediation plan) were calculated as multiple day
8 violations starting on November 11, 2018, and ending on January 9, 2025, for a total of
9 2,250 days out of compliance. November 11, 2018, was chosen based on 19.15.29.16
10 NMAC which is the transitional provision. This provision states “A. Responsible parties with
11 current ongoing corrective actions/remediation with approved plans and timelines as of
12 August 14, 2018, do not have to submit revised plans. B. Responsible parties with ongoing
13 corrective actions/remediation without approved timelines or plans as of August 14, 2018,
14 must submit a characterization plan or corrective action/remediation plan with proposed
15 timeframes within 90 days of August 14, 2018.” The proposed penalties for this violation are
16 multi-day, ongoing violations, and all proposed penalties attach to daily violations
17 occurring after promulgation of 19.15.5.10.D NMAC. The violations of 19.15.29.12 NMAC
18 (failure to submit an approval remediation closure report) and 19.15.5.11 (failure to comply
19 with term, condition, provision of a permit, administrative order, authorization, or approval)
20 were calculated as multiple day fines starting on May 2, 2024, and ending on January 9,
21 2025, for a total of 252 days out of compliance. May 2, 2024, was chosen as it was the date

DIRECT TESTIMONY OF BRITTANY HALL

1 of the due date that was approved in the last extension request. The NOV and civil penalty
2 calculator are included in **Exhibit 9**.

3 **Statuses of Additional Open Incidents**

4 Part of the *Compliance* section of the NOV, OCD required an update on five (5)
5 additional open incidents. OCD required the update to include a summary of all remedial
6 activities performed to date, a timeline for each incident that outlines how and when the
7 incidents will be brought into compliance, and any additional information regarding why
8 these incidents are out of compliance. The five (5) additional open incidents are discussed
9 further below.

10

11 i. nAB1927632580 is associated with the New Mexico DU State #001 (API: 30-015-
12 24531) saltwater disposal well. OCD received an initial C-141 on September 10, 2019, for a
13 release of 300 barrels of crude oil and 900 barrels of produced water. The release was
14 discovered on June 14, 2018. The Operator submitted a work plan for the characterization
15 and remediation of the release on September 10, 2019, and the plan was approved by the
16 OCD on October 23, 2020.

17 ii. nAB1426550986 is associated with the New Mexico DU State #001 (API: 30-015-
18 24531) saltwater disposal well. OCD received an initial C-141 on September 22, 2014, for a
19 release of 700 barrels of produced water. The release was discovered on September 19,
20 2014.

DIRECT TESTIMONY OF BRITTANY HALL

1 iii. nPRS0522956951 is associated with the CMB #001 (API: 30-025-31173) saltwater
2 disposal well. The incident file indicates that 1,000 barrels of produced water was
3 released. The Incident Events section of the incident file states "C-141: "6" PVC line broke,
4 fluid contained in dyke Retrieved fluid with vacuum truck. 15'x60' west side of dyke dirt dug
5 up placed on plastic." The incident file is also associated with facility ID *FPRS0522955615*
6 *BUCKEY DISPOSAL CBM SWD*. Notes under this facility ID include that the OCD did not
7 receive a complete C-141 for over a month. The notes also describe an inspection that was
8 conducted on August 17, 2025. The inspection indicated that a rainwater puddle on pad
9 tested very high in chloride utilizing a test strip and the tank battery liner was
10 compromised. OCD also directed an employee on site that Buckeye would need to "check
11 the groundwater and build a concrete pad". Other observations made were that normal
12 routine operations included saltwater being released by trucking activities.

13 iv. nSAD0430954509 is associated with the CMB #001 (API: 30-025-31173) saltwater
14 disposal well. The incident file indicates that 25 barrels of brine water was released from a
15 production tank. The Incident Event section states "BAD INCIDENT".

16 v. nBZH2501038804 is associated with the CMB #001 (API: 30-025-31173) saltwater
17 disposal well and was created after a review of the well file was completed and A C-141
18 marked as received on October 24, 2008, was found without a corresponding incident
19 number.

20 OCD received an email on April 25, 2025, from the operator which included a letter
21 titled *Buckeye Disposal, LLC's response to request for update on open incidents listed*

DIRECT TESTIMONY OF BRITTANY HALL

1 *in Notice of Violation dated April 3, 2025, State AF #003 (30-025-20980) Incident*
2 *#nKL1625134663 and #n041813152090.* This letter included updates for the
3 aforementioned open incidents. The update for nAB1927632580 and nAB1426550986 at
4 the New Mexico DU State #001 (API: 30-015-24531) saltwater disposal well states that
5 remediation plans are being finalized. The update for incident nPRS052956951 included a
6 closure report and a statement that “Buckeye contends that this incident should be
7 closed.” OCD does not have any record that this closure report was submitted. The update
8 for nSAD0430954509 states “Buckeye is in the process of locating the files from this
9 release that are in paper format only.” The update for incident number nBZH2501038804
10 state “Buckeye believes that this incident number is associated with the approval of a C-
11 141 for the 2004 and 2005 incidents at the CBM SWD, described *supra* in items 3 and 4.”
12 and “Buckeye is in the process of locating the pertinent files for this release that are in
13 paper format only.” OCD disagrees that the incident number is associated with the
14 approval of a C-141 for the 2004 and 2005 incidents at the CBM SWD as the referenced
15 initial C-141 is dated as being received by the OCD on October 24, 2008. The letter and
16 associated closure report are included in **Exhibit 24**.

17 On July 17, 2025, OCD representatives met virtually with the Operator on and their
18 representatives to discuss technical aspects of the remediation, including but not limited
19 to the request of a variance at the site. On October 15, 2025, OCD sent a follow-up email to
20 Buckeye and their representatives as OCD has not received the required submittals or
21 documentation discussed during that meeting. This email included a brief overview of the
22 discussion and set due dates for technical actions, which were as follows:

DIRECT TESTIMONY OF BRITTANY HALL

- 1 1. **Soil Delineation:** Complete full vertical and lateral delineation of impacted soils
2 and, if encountered, groundwater or surface water contamination by **November 14,**
3 **2025.**
- 4 2. **Site Characterization and Remediation Plan:** Submit a complete and accurate
5 plan, including all delineation data and proposed remedial approach, through the **C-**
6 **141 application on the OCD Permitting website by December 14, 2025.**
- 7 3. **Remediation Closure and Reclamation Reports:** Submit complete reports
8 documenting remedial actions and reclamation activities via the **C-141 application**
9 **by February 12, 2026.**
- 10 4. **Revegetation Report:** Submit a revegetation report through the **C-141**
11 **application** when vegetative cover meets the requirements of **19.15.29.13(D)(3)**
12 **NMAC.** A copy of this email is included in **Exhibit 25.**

13 As of the date of this hearing, OCD has not received Site Characterization and
14 Remediation Plans; Remediation Closure Reports; Reclamation Reports; or
15 Revegetation Reports for incident numbers nOY1813152090 and NKL1625134663. OCD
16 also has not received any submittals for the five (5) additional open incidents
17 referenced in the NOV. As the Operator has not submitted any form C-141s since the
18 issuance of the NOV almost a year ago, the Operator is still out of compliance and
19 additional civil penalties could be calculated. The Operator is out of compliance with
20 the following rules:

- 21 • 19.15.29.11 A. (1) through (5) and 19.15.29.11 B. NMAC as the operator has not
22 completed delineation of the site;

DIRECT TESTIMONY OF BRITTANY HALL

- 1 • 19.15.29.12 NMAC as the operator has not submitted a complete and accurate
2 remediation plan;
- 3 • 19.15.29.12 NMAC as the operator has not submitted a complete and accurate
4 remediation closure report;
- 5 • 19.15.29.13 NMAC as the operator has not submitted complete and accurate
6 reclamation report; and
- 7 • 19.15.29.13 NMAC as the operator has not submitted complete and accurate
8 revegetation report.

ROSA ROMERO

Ruidoso, NM 88345 | 575 -590-3459 | rosa4100@gmail.com

SKILLS PROFILE

- Supervisory Experience in both field and office setting.
- Skilled with field data collection and survey methods, including the use of backpack electrofishing units, bag seines, and gill nets, as well as radio telemetry, substrate and large woody debris data collection.
- Proficient using Field Data Recorders, GPS units, and other technical equipment.
- Recognized for quality use and experience of various software/hardware troubleshooting and instruction.
- Experience working/living in harsh conditions.
- Experience in teaching, advising in technical training programs and university coursework.
- FEMA Emergency Response Certifications 100, 200, 700 and 800, Emergency Management trained

EDUCATION

Bachelor's Degree Western New Mexico University, Silver City, NM
BS Zoology & Botany minor -2007

EMPLOYMENT HISTORY

OCD Environmental Bureau Chief – New Mexico Office Energy Minerals & Natural Resource Dept. -04/2022-Present
Artesia, NM

- Oversees and manages the Oil Conservation Divisions Environmental Bureau, including the Administrative Permitting Programs, the Environmental Incidents Program, and the Environmental Projects and Compliance group to ensure OCD goals and objectives are met.
- Recommends selection of applicants, conducts training of personnel, acts upon leave requests, conducts performance evaluations administers disciplinary actions.
- Coordinates and implements OCD programs with OCD staff to ensure legal requirements are met.
- Advises senior management on legal and management issues, policies and rules.
- Has an in depth familiarity with the Oil and Gas Act and Rules ad the Water Quality Act and Rules.

Water Resource Professional III – New Mexico Office of the State Engineer. -03/2019-04/2022

Roswell, NM

- Performed advanced water rights analyses for water right applications and made technical recommendations for administrative decisions for water right applications of a complex nature, including modeling parameters, model sensitivity analysis, validity and pertinence of water rights and documentation, analysis of variance requests for well construction and abandonment.
- Provided technical support to junior professionals. Communicated complex water right issues to other agency staff including public attorneys, hydrologists, and engineers from other bureau's. Oversaw and monitored agency compliance with federal and state regulations, served as an expert witness on water resource matters.
- Determined appropriate actions for noncompliance issues. Completed investigations in which no agency specific guidelines existed.
- Performed water data collection and analysis, including groundwater and surface water analysis and calculation of irrigation water requirements. Reviewed and made recommendations on groundwater and surface water rights documents and applications in accordance with rules and regulations.
- Reviewed water resource permit applications and participated in special projects including field water level measurements, compliance issues and corrective actions, and drafted technical reports based on data collection and analysis.
- Performed stream flow measurements including steam gage operations, hydrologic calculations, data management and analysis. Groundwater and surface water analysis. Performed independent water inspections and investigations.
- Evaluated data, performed in depth data analysis using analytics, computer models and GIS databases.
- Participated in interagency water management and planning efforts to effectively manage water resources and the local regional and basin or interstate scale.

Environmental Scientist, State of New Mexico Environment Dept.-12/2013-03/2019

Ruidoso, NM

- Used knowledge of the natural sciences to protect the environment by identifying problems and finding solutions that minimize hazards to the health of the environment and the population.
- Analyzed measurements or observations of food, water, and soil to determine regulatory compliance.
- Understood the issues involved and found solutions to protect the environment from degradation, utilized this understanding to design and monitor waste disposal sites, preserve water supplies.
- Conducted research and perform investigations for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or the health of the population. Utilized knowledge of various scientific disciplines to collect, synthesize, study, report and take actions based on data derived from measurements or observations of food, soil, water, and other sources. Review plans and permit applications for regulatory compliance and issue construction permits for food, liquid waste, and pool facilities. Completed inspections of construction sites at food facilities and new aquatic facilities for regulatory compliance.
- New Mexico State Representative for the Counsel for the Model Aquatic Health Code, voting member for review of changes to upcoming codes.
- NSPF Certified Pool Operator, Field Service Professional, Inspector, and Recreational Water Illness Certifications, NLAFT, NSPF and ATI Qualified Operator Certified.
- Reviewed course certification materials for compliance with the MAHC
- NLAFT Certified Instructor for Qualified Operators
- Work on the 2-5K liquid waste team to permit and transfer liquid waste system to EHB from Groundwater Bureau.
- Review and approve ATS liquid waste permits; monitor ATS maintenance.
- Certification and continuing educational in all areas of environmental health sciences.
- Educated the general public on federal and state environmental policies.

New Mexico State University, Adjunct Professor-08/2014-05/2015

Alamogordo, NM

- Developed and managed syllabus materials. Was responsible for selecting and compiling tests, assignments and/or online discussion exercises that permit measurement of performance relative to standardized learning objectives.
- Coordinated courseware and curriculum, reviewing any textbook and other courseware changes with the academic department chair and other full-time faculty teaching the course.
- Facilitated Class Instruction and teaching the Human Biology Lab in accordance with learning objectives and session plan outlines specified by the NMSU and coordination of lab material with attached curriculum.
- Evaluated Student Performance. Administered evaluations of student performance based on course deliverables and course rubrics.

Wildlife Technician, United States Forest Service-05/2011-10/2012

Reserve, NM

- Participated in large scale ecosystem restoration project using NEPA guidelines to edit, and evaluate for the Burro Analysis for the Restoration of Forest Health project. Proofread for the final environmental assessment, comment analysis and analyzed effecter determinations for resident Mexican Spotted Owl, Chiricahua Leopard frog and Northern Goshawk populations.
- Planning, maintenance and recovery efforts in collaboration with the US Fish and Wildlife Services and private property owners for Chiricahua Leopard frog ranariums located within the reserve ranger districts. Extant populations captured, recovered and bred in captivity for reintroduction into the wild. Created training materials for statewide CLF survey protocols.
- Crew Leader and supervisor for 2-8 man crew performing inventory and monitoring of threatened and endangered species in the Gila National Forest with special focus on Mexican Spotted Owl, Chiricahua Leopard frog and Northern Goshawk.
- Federal trainings for fire, security awareness, defensive driving, first aid, CPR, horseback, ATV, and survey protocols for Mexican Spotted Owl, Chiricahua Leopard frog and Northern Goshawk. Participated in range monitoring, range transect surveys and acted as contact person for department including inter and intra agency coordination.

- Maintained daily observation records of endangered species, feedings and facilities maintenance for breeding habitats and captive facilities, including the planning and construction of a sterile ranarium for endangered amphibians. Completed large scale breeding and reintroduction project and participated in housing design for salvaged garter snake population.

State of New Mexico Human Services Department-06/2008-04/2011

Silver City, NM

- Interpretation and utilization of Federal and State policies and procedures to ensure efficiency and accuracy of state and federal benefits issued applicants. Documentation and accurate record keeping of confidential and legal data. Ensure statistical goals and deadlines are met.
- Head chair of the department's safety committee. Assessed working conditions and handled formal and informal complaints.
- Organized safety training and instructed employees on proper safety policies and procedures.
- Educated the general public in policies and procedures to obtain accurate data collection, handles client complaints, customer service and outreach programs.

Office Manager- Signal Peak, Inc.-02/2005-06/2008

Silver City, NM

- Distributed workload among employees and checked status and progress of work, making necessary adjustments. Served as the first-line interpreter of the protocol for employees. Assessed working conditions and ensured work is done safely and efficiently. Monitors performance and handled informal complaints among employees. Maintained reports on employee performance and recorded work time and leave of employees.
- Performs database review to assess errors and make appropriate corrections to database in Microsoft Access, Optigold and led technical training and presentations on technical processes and procedures based on factual data.
- Created and maintained technical reports and summaries for business purposes, including instructions for technical processes and business reports for research of anticipated fluctuations in revenue, equipment and supply inventory, budgeting for business growth, and customer data.

Western New Mexico University – Project Assistant-12/2006-08/2007

Silver City, NM

- Assisted in identifying habitat selection cues among rodent communities along a desert riparian cienega. Trapped, handled, and identified rodent, fish, amphibian and mammal species. Surveyed vegetation and identified individual plant species.
- Data collected was analyzed using Microsoft Excel, Pc Ordination, and SAS software, and an oral and written report were given.
- Used commonly accepted fisheries and aquatic techniques to collect a variety of field data concerning watershed health including, but not limited to: surveying channel profiles, tallying wood occurrences, measuring substrate dimensions, searching for terrestrial amphibians, collecting biological samples and using water chemistry meters.
- Organized and reviews data from data sheets and field data recorders (FDR's) to identify missing, illegible and/or incorrect data, and make necessary corrections. Downloads data from FDR's, GPS units and water chemistry meters into electronic spreadsheets and/or tables using various software programs.

Western New Mexico University-Con Confianza-Laboratory Assistant/ Mentor- 08/2004-05/2005

Silver City, NM

- Mentoring, counseling, and tutoring of students, and coordination of events between various departments. Teaching proper surveying techniques, equipment maintenance, appropriate handling of chemical compounds, working with aerosols, and neutralization of acidic compounds and disposal of laboratory hazardous materials to students.
- Preparation of agar, slants and other test media, bacterial analysis, gram staining and incubation of media, the identification of micro-organisms and bacteria from water samples.
- Instruction of onsite water quality tests for temperature, pH, Dissolved Oxygen (DO), and conductivity and the detection of pathogenic bacteria in water samples.

Stream International – Senior Support Services Manager -10/2002-03/2004
Silver City, NM

- Supervised a team of representatives, and trained incoming representatives in technical processes, and office procedures for major corporations.
- Computer hardware repair and replacement of PC hardware components and became proficient in the use of Microsoft products and internet-based programs and various software needed to resolve PC hardware and software issues.
- Resolved conflicts with customer satisfaction issues.

Phelps Dodge Mining Company-Security - 11/2000-10/2002
Morenci, AZ

MSHA and HAZMAT trained safety training visitors to the mine, ensured security procedures were followed for the protection of property and employees.

- Trained in basic first aid and management of situations in which dangerous materials are exposed. Detected safety threats and participated in the proper clean-up of hazardous materials.
- Dispatched for Fire, and accident EMS.

PROFESSIONAL PUBLICATIONS

- Lead author of a technical presentation and publication for The Wildlife Society, February 2013, entitled *Quick Response Experimental Post-Wildfire Translocation on the Narrow Headed Gartersnake (Thamnophis rufipunctatus)*.
- Co-Presented a technical dissertation for New Mexico Network for Women in Science and Engineering annual meeting, October 28, 2006, entitled *The Importance of the Preservation of Native Wildlife of the Southwest*.

VOLUNTEER WORK

- Fort Stanton Cave Restoration Project. 2019-present
- Expanding Your Horizons in Science and Mathematics Annual Conference. 2005-2011
- New Mexico Network for Women in Science and Engineering 2007-2010

REFERENCES

Jack King State of New Mexico Environment Department Bureau Chief (Retired)
Contact Info: Jack@king-projects.com 575-937-8387

Eugene Knight State of New Mexico Environment Department Program Manager (Retired)
Contact Info: Eugene.knight56@gmail.com 575-808-7742

Howie Morales NM State Governors Office District 28
Contact info: 575-590-7804

**STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

IN RE: NOTICE OF VIOLATION ISSUED TO BUCKEYE DISPOSAL, LLC

CASE NO. 25894

**OIL CONSERVATION DIVISION'S
DOCKETING NOTICE**

The New Mexico Oil Conservation Division (“OCD”), pursuant to 19.15.5.10(E)(2)(a) NMAC, gives notice that it has docketed the Notice of Violation (“NOV”), a true and correct copy of which is attached as **Exhibit A**, and states the following in support thereof:

1. On or about April 3, 2025, OCD issued an NOV to Buckeye Disposal, LLC (“Buckeye”), OGRID #222759.
2. The NOV identified the factual basis for the alleged violations, the compliance actions required to remedy the alleged violations, and the proposed sanctions.
3. The NOV stated that if Buckeye did not informally resolve the NOV within 30 days of receipt of service, then OCD would proceed to a hearing on July 10, 2025. This hearing date was extended due to the parties’ attempts to resolve the NOV informally.
4. OCD willingly extended the informal resolution period to allow Buckeye every reasonable opportunity to comply and engaged in substantial technical communication during the informal resolution period.
5. On or about December 18, 2025, Buckeye disclosed that it was not capable of completing various stages of remediation within revised deadlines required by OCD as of October 2025. On information and belief, Buckeye is not capable of completing the necessary remediation regardless of proposed deadlines.

WHEREFORE, OCD requests that the NOV be docketed for hearing on February 26, 2026.

Respectfully submitted,



Jesse K. Tremaine
Legal Director

Michael Hall
Assistant General Counsel
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
Phone: (505) 231-9312
Email: JesseK.Tremaine@emnrd.nm.gov

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Melanie A. Kenderdine
Cabinet Secretary-Designate

Benjamin Shelton
Deputy Secretary (Acting)

Gerasimos Razatos, Division Director (Acting)
Oil Conservation Division



BY CERTIFIED ELECTRONIC MAIL

Buckeye Disposal, L.L.C.
Terry Payton
Financial Officer
terry@bergsteinenterprises.com

and

Pieter Bergstein
Member
terry@thestandardenergy.com
P.O. Box 2724
Lubbock, Texas 79408

NOTICE OF VIOLATION

State AF #003 (30-025-20980) Incident #nKL1625134663 and #nOY1813152090

The Director of the Oil Conservation Division (“OCD”) issues this Notice of Violation (“NOV”) pursuant to 19.15.5.10 NMAC.

(1) *Alleged Violators:* Buckeye Disposal, LLC, OGRID 222759 (“Operator”).

(2) *Citation, Nature, and Factual and Legal Basis for Alleged Violation(s):*

19.15.29.8 RELEASES:

A. Prohibition. Except as provided in 19.15.27 NMAC or 19.15.28 NMAC, major releases and minor releases are prohibited.

19.15.29.11 SITE ASSESSMENT/CHARACTERIZATION:

After the responsible party has removed all free liquids and recoverable materials, the responsible party must assess soils both vertically and horizontally for potential environmental impacts from any major or minor release containing liquids.

A. Characterization requirements. The responsible party must submit information characterizing the release to the appropriate division district office within 90 days of discovery of the release or characterize the release by submitting a final closure report within 90 days of discovery of the release in accordance with Subsection E of 19.15.29.12 NMAC. The responsible party may seek an extension of time to submit

characterization information for good cause as determined by the division. The responsible party must submit the following information to the division.

- (1) **Site map.** The responsible party must provide a scaled diagram that shows the potentially impacted area, significant surface features including roads and site infrastructure, location of borings, sample points, monitoring wells and subsurface features such as known pipelines to the extent known at the time of submittal including the source of information regarding subsurface features.
- (2) **Depth to ground water.** The responsible party must determine the depth to ground water where the release occurred. If the exact depth to ground water is unknown, the responsible party must provide a reasonable determination of probable ground water depth using data generated by numeric models, cathodic well lithology, water well data, published information or other tools as approved by the appropriate division district office. If the responsible party uses water well data, the responsible party must provide all pertinent well information.
- (3) **Wellhead protection area.** The responsible party must determine the horizontal distance from all known water sources within a half mile of the release including private and domestic water sources. Water sources are wells, springs or other sources of freshwater extraction. Private and domestic water sources are those water sources used by less than five households for domestic or stock purposes.
- (4) **Distance to nearest significant watercourse.** The responsible party must determine the horizontal distance to the nearest significant watercourse as defined in Subsection P of 19.15.17.7 NMAC within a half mile of any horizontal boundary of the release.
- (5) **Soil/waste characteristics.** The responsible party must determine the lateral and vertical extents of soil contamination, as follows.

19.15.29.12. REMEDIATION AND CLOSURE:

A. The responsible party must remediate all releases regardless of volume.

B.(1) Unless remediation is completed, and a final closure report submitted, within 90 days of discovery of the release, the responsible party must complete division-approved remediation for releases either pursuant to a remediation plan approved pursuant to 19.15.29.12 NMAC or pursuant to an abatement plan in accordance with 19.15.30 NMAC. If the director determines that the release has caused water pollution in excess of the standards and requirements of 19.15.30 NMAC, the director may notify the responsible party that an abatement plan may be required pursuant to 19.15.30 NMAC.

B.(2) Any remediation under 19.15.29 NMAC should be completed as soon as practicable. Any remediation that exceeds 90 days must follow the division-approved timeline in the remediation plan. The responsible party may request an extension of time to remediate upon a showing of good cause as determined by the division.

C.(1) The responsible party must submit a detailed description of proposed remediation measures in accordance with the findings of the site assessment/characterization plan that includes:

- (a) delineation results, including laboratory analysis;
- (b) a scaled sitemap showing release area with horizontal and vertical delineation points;
- (c) estimated volume of impacted material to be remediated;
- (d) proposed remediation technique; and

(e) proposed timeline for remediation activities

19.15.29.16 TRANSITIONAL PROVISIONS:

B. Responsible parties with ongoing corrective actions/remediation without approved timelines or plans as of August 14, 2018 must submit a characterization plan or corrective action/remediation plan with proposed timeframes within 90 days of August 14, 2018..

19.15.5.11 ENFORCEABILITY OF PERMITS AND ADMINISTRATIVE ORDERS:

A person who conducts an activity pursuant to a permit, administrative order or other written authorization or approval from the division shall comply with every term, condition and provision of the permit, administrative order, authorization or approval.

State AF #003 (30-025-20980) Incident #NKL1625134663

1. On August 16, 2016, OCD Inspectors identified a release at the State AF #003 (30-025-20980), during a field visit.
2. On September 7, 2016, OCD reviewed and conditionally approved an Initial C-141.
3. On October 7, 2016, Operator submitted an inadequate Remediation Plan not meeting the previous Conditions of Approval in violation of 19.15.5.11 NMAC.
4. On November 12, 2018 Operator failed to submit a Characterization plan or Corrective action/Remediation plan in violation of 19.15.29.16 NMAC.
5. On August 16, 2019, OCD received a report titled *Work Plan for Characterization and Remediation of State AF #003 SWD Site*.
6. On January 29, 2020, OCD rejected the report titled *Work Plan for Characterization and Remediation of State AF #003 SWD Site* for the following reasons:
 - a. “Horizontal delineation is not complete. Buckeye will need to further assess the horizontal limits of the release to 600 mg/kg.
 - b. NMOCD recommends for Buckeye Disposal to provide additional sampling locations for preapproval.
 - c. Depth to groundwater is not adequately identified. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. Buckeye Disposal (Buckeye) will need to drill a borehole on site to 51’ bgs and leave it open for at least 24 hours. If there is no evidence of ground water after 24 hours, the OCD will review Buckeye’s remediation plan with a copy of the driller’s log (see stipulations below). If Buckeye chooses not to drill a borehole to confirm depth to groundwater, the impacted area will need to be further delineated to closure criteria for water at a depth of <50’. For further clarifications regarding the implementation of the spill rule, visit the OCD website:
<http://www.emnrd.state.nm.us/OCD/documents/OCDInternalPolicy-SpillRuleClarifications.pdf>
 - d. NMOCD recommends soil assessment to 4 feet below ground surface or to 600 mg/kg, whichever comes first, to determine the potential vertical remedial efforts.”
7. On February 2, 2024, Operator requested an extension of time. Operator requested an additional 90 days as “they are working with the State Land Office and need

time to coordinate field activities and obtain access and clearances (i.e., cultural compliance). Results of the characterization activities will be used to develop the remediation plan.” OCD approved the extension of time and a new due date of May 2, 2024 was issued.

8. On May 2, 2024, Operator failed to submit a complete and accurate Site Characterization and Remediation Plan in violation of *19.15.29.11 NMAC*, and *19.15.29.12 NMAC*
9. On July 1, 2024, OCD requested a status update on the submission of a Site Characterization and Remediation Plan via email as the incident was 60 days out of compliance.
10. On July 2, 2024, the Operator responded to the request for a status update. “The State Land Office approved Buckeye’s site assessment plan (SAP) last Friday (6/28/2024). As you know, the investigation activities proposed in the SAP are needed for the Site Characterization and Remediation Plan that we intend to submit to OCD. We’ve been including you on the emails to SLO regarding the SAP to keep you updated but should have formally requested another extension. I apologize. I was under the impression that meeting the additional requirements of SLO was inline with us also meeting your expectations for the two documented releases and collection of data to support remediation and reclamation. We intend to report all data collected during implementation of the SAP to OCD in the Site Characterization and Remediation Plan. SLO just approved the SAP. We still need to obtain a Right-of-Entry permit and consult with the SLO Cultural Resources Office. I’m starting these additional requirements this week and will have a better idea of when we can start investigation activities and submit the Site Characterization and Remediation Plan to OCD after I make headway on these two requirements.”
11. On September 17, 2024, OCD sent an email to the Operator reiterating that OCD still had not received a Site Characterization and Remediation plan and the incidents were out of compliance. Additionally, OCD stated “OCD will not approve any additional extension requests for nOY1813152090 and nKL1625134663. Remediation of these releases must be completed pursuant to 19.15.29 NMAC, including submission of approvable remediation plans, remediation closure reports, reclamation reports, and revegetation reports. OCD will use its enforcement discretion to determine if additional enforcement action is warranted. Cooperation from Buckeye Disposal L.L.C. will be considered when determining any enforcement actions, which may include civil penalties.”
12. On September 18, 2024, the Operator responded to the email stating “I understand and acknowledge receipt of your email. We are working on this and making strides. With the urgency and importance of our response I feel that it we need to consult with our legal counsel before sending a formal response. I am trying to get a call schedule for tomorrow morning. Please know that we understand the importance of pushing forward with this project and we will do anything we can to prevent further delays.”
13. On September 23, 2024, OCD receive an email from the Operator stating that there was a delay with the right of way paperwork, a cultural resources survey had to be completed, an that the ground at the location is very hard with will necessitate the need for a drill rig to collect the samples. The email also stated “Please consider this communication to represent our intentions and understanding of the seriousness and urgency of this matter. We not only aim to

avoid penalties, but we want to get this project completed and move forward without delay.”

14. On September 23, 2024, OCD requested to be kept informed, if all SLO requirements had been completed and if the delineation plan could be implemented, if additional soil sampling had been performed, and what dates the driller would be available to install the soil borings.
15. On September 24, 2024, the Operator responded via email stating “It is my understanding that all of the SLO requirements have been completed as the cultural survey was done last week. Once we get a copy of the survey, John or I will provide it to you and SLO. At this point the only thing we are waiting on to implement the SLO approved delineation plan is the driller schedule. As far as I am aware no additional sampling has been done since May of 2023. Once we have confirmed dates from the driller we will share them with you and SLO.”
16. On October 7, 2024, OCD sent an email requesting the if the drill rig had been scheduled and asked for the date to be provided.
17. On November 19, 2024, OCD sent an email to the Operator requesting a detailed time frame for the remediation and reclamation of incident numbers [nOY1813152090](#) and [nKL1625134663](#).
18. On December 5, 2024, The Operator copied OCD in an email to the State Land Office (SLO) stating “I am sorry, it looks like we might have missed this email from Britany in the Thanksgiving craziness. We are having bi-weekly meetings with John regarding this project. From our last meeting, it is my understanding that we are just waiting on a date from the driller. We discussed the option of using a backhoe to accelerate the sampling, but decided that we will need to wait for the driller as we ran into some very hard layers that the backhoe couldn’t break through when we collected the prior samples that were presented to you all last year. I will follow up with John today to verify that this is still the status. I believe the holidays have caused some delays in scheduling. I will send a follow up to this email after speaking with John.”
19. On December 5, 2024, OCD responded to the email received which stated “As requested on November 19, 2024, please send a detail timeframe for the remediation and reclamation of incident numbers [nOY1813152090](#) and [nKL1625134663](#). Include any correspondence from all drilling contractors that have been contacted, including correspondence on when rigs are available. Additionally, please include a timeline of events that have occurred since the date of discovery of each incident. These incidents had due dates of May 2, 2024, which was 217 days ago. Per previous emails, the EM survey was completed on October 8th and the results were being processed. Has that been completed? If so, please send a copy of the EM survey with the requested timeframe and timeline.”
20. On December 6, 2024, OCD received a response from the Operator stating “We are analyzing the EM survey data now and expect to be done in a week or two. I understand that it’s taking longer than expected to address remediation and reclamation of incidents [nOY1813152090](#) and [nKL1625134663](#); however, our investigation area covers a much larger region than where the two spills occurred (i.e., within the former AST containment) and we are also trying to satisfy SLO requests. We’ll let you know once analysis of the EM survey data is complete and have scheduled drilling. After the investigation work is complete, we’ll be in a better position to provide a schedule for remediation and reclamation.”

21. On January 7, 2025, The Operator copied OCD in a response to SLO stating “Attached is a figure summarizing the EM survey results at the Buckeye State AF #003 site. We used linear regression to provide a preliminary estimate of areas exceeding 600-mg/kg chloride and to delineate potential excavation areas. The linear regression uses soil chloride data from the December 2023 soil sampling. Please note: there are a few areas with elevated TPH that are not addressed on the attached figure and that actual excavation areas will likely be more square and rectangle. The EM survey was conducted in October 2023. We contracted Atkins Engineering to complete the survey. They also captured an aerial photograph of the site with a drone. The aerial is shown in the attached figure. The EM survey was completed using both an EM31 and EM38, and by varying coil spacing and orientation so that we could image different depths. These data are in the GIS we used to prepare the attached figure. We’re going to place the raw data on separate maps and send them to you in a separate email (hopefully later today or tomorrow). We’ve obtained a quote from Atkins Engineering to complete the borehole investigation. I’ve considered modifying the borehole investigation work some based on the EM survey results but need to discuss it more with Buckeye. We’ll obtain SLO approval before moving forward with any changes.”
22. On January 8, 2025, OCD responded to the email stating “Thank you for the information. As Buckeye Disposal, L.L.C. (222759) has not met previous conditions stipulated by the OCD, Buckeye Disposal and these incidents are now under a compliance review.”
23. As of March 14, 2025, the Operator has yet to submit a C-141 for closure in violation of 19.15.29.12 NMAC.

State AF #003 (30-025-20980) Incident # NOY1813152090

24. On May 11, 2018, OCD received an Initial C-141 which was subsequently approved with conditions.
25. On August 16, 2019, OCD received a report titled *Work Plan for Characterization and Remediation of State AF #003 SWD Site*.
26. On January 29, 2020, OCD rejected the report titled *Work Plan for Characterization and Remediation of State AF #003 SWD Site* for the following reasons:
 - a. “Horizontal delineation is not complete. Buckeye will need to further assess the horizontal limits of the release to 600 mg/kg.
 - b. NMOCD recommends for Buckeye Disposal to provide additional sampling locations for preapproval.
 - c. Depth to groundwater is not adequately identified. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. Buckeye Disposal (Buckeye) will need to drill a borehole on site to 51’ bgs and leave it open for at least 24 hours. If there is no evidence of ground water after 24 hours, the OCD will review Buckeye’s remediation plan with a copy of the driller’s log (see stipulations below). If Buckeye chooses not to drill a borehole to confirm depth to groundwater, the impacted area will need to be further delineated to closure criteria for water at a depth of <50’. For further clarifications regarding the implementation of the spill

rule, visit the OCD website:

<http://www.emnrd.state.nm.us/OCD/documents/OCDInternalPolicy-SpillRuleClarifications.pdf>

- d. NMOCD recommends soil assessment to 4 feet below ground surface or to 600 mg/kg, whichever comes first, to determine the potential vertical remedial efforts.”
27. On September 13, 2023, Operator submitted a Remediation Plan.
28. On September 19, 2023, OCD rejected the Remediation Plan for the following reasons:
- a. “Analytical results for the samples collected will not be accepted for the following reasons: Total petroleum hydrocarbons were not analyzed using an acceptable method. Acceptable methods for each analyte are listed in 19.15.29 NMAC on Table I. Other methods may be used as long as they are approved prior to analysis. All laboratory reports indicate that the samples were not received at the proper temperature and were not received by the laboratories on ice.
 - b. All samples will need to be analyzed for all the constituents listed on Table I.
 - c. Per 19.15.29.12 C.(4) NMAC If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to ground water in Table I of 19.15.29.12 NMAC: (c) within (ii) 1000 feet of any fresh water well or spring. The release is within 1000 feet of a fresh water well and regardless of depth to groundwater, the release must be delineated, both horizontally and vertically, and remediated to the most stringent closure standards in Table I.
 - d. There is a playa lake located southeast of SB-08. Horizontal and vertical delineation of the site will need to include sample points that will assess if the playa lake has been impacted by the release.
 - e. 1RP-5056 closed. Refer to incident #NOY1813152090 in all future communication.
 - f. Submit a complete report though the OCD Permitting website by 12/19/2023.
 - g. Two releases are referred to in the report. Reports can be used for multiple incident numbers but the report will need to be submitted through the OCD Permitting website under each individual incident number.”
29. On December 5, 2023, Operator requested an extension of time due to “samples being analyzed by the lab and the operator is waiting on the results.” OCD approved the extension of time and a new due date of February 2, 2024 was issued.
30. On February 2, 2024, Operator requested an extension of time. Operator requested an additional 90 days as “they are working with the State Land Office and need time to coordinate field activities and obtain access and clearances (i.e., cultural compliance). Results of the characterization activities will be used to develop the remediation plan.” OCD approved the extension of time and a new due date of May 2, 2024 was issued.
31. On May 2, 2024, Operator failed to submit a complete and accurate Site Characterization and Remediation Plan as stated in previous term and conditions in violation of *19.15.5.11 NMAC*, *19.15.29.11 NMAC*, and *19.15.29.12 NMAC*.

32. On July 1, 2024, OCD requested a status update on the submission of a Site Characterization and Remediation Plan via email as the incident was 60 days out of compliance.
33. On July 2, 2024, the Operator responded to the request for a status update. “The State Land Office approved Buckeye’s site assessment plan (SAP) last Friday (6/28/2024). As you know, the investigation activities proposed in the SAP are needed for the Site Characterization and Remediation Plan that we intend to submit to OCD. We’ve been including you on the emails to SLO regarding the SAP to keep you updated but should have formally requested another extension. I apologize. I was under the impression that meeting the additional requirements of SLO was inline with us also meeting your expectations for the two documented releases and collection of data to support remediation and reclamation. We intend to report all data collected during implementation of the SAP to OCD in the Site Characterization and Remediation Plan. SLO just approved the SAP. We still need to obtain a Right-of-Entry permit and consult with the SLO Cultural Resources Office. I’m starting these additional requirements this week and will have a better idea of when we can start investigation activities and submit the Site Characterization and Remediation Plan to OCD after I make headway on these two requirements.”
34. On September 17, 2024, OCD sent an email to the Operator reiterating that OCD still had not received a Site Characterization and Remediation plan and the incidents were out of compliance. Additionally, OCD stated “OCD will not approve any additional extension requests for nOY1813152090 and nKL1625134663. Remediation of these releases must be completed pursuant to 19.15.29 NMAC, including submission of approvable remediation plans, remediation closure reports, reclamation reports, and revegetation reports. OCD will use its enforcement discretion to determine if additional enforcement action is warranted. Cooperation from Buckeye Disposal L.L.C. will be considered when determining any enforcement actions, which may include civil penalties.”
35. On September 18, 2024, the Operator responded to the email stating “I understand and acknowledge receipt of your email. We are working on this and making strides. With the urgency and importance of our response I feel that it we need to consult with our legal counsel before sending a formal response. I am trying to get a call schedule for tomorrow morning. Please know that we understand the importance of pushing forward with this project and we will do anything we can to prevent further delays.”
36. On September 23, 2024, OCD received an email from the Operator stating that there was a delay with the right of way paperwork, a cultural resources survey had to be completed, and that the ground at the location is very hard with will necessitate the need for a drill rig to collect the samples. The email also stated “Please consider this communication to represent our intentions and understanding of the seriousness and urgency of this matter. We not only aim to avoid penalties, but we want to get this project completed and move forward without delay.”
37. On September 23, 2024, OCD requested to be kept informed, and whether all SLO requirements had been completed and if the delineation plan could be implemented, additional soil sampling had been performed, and what dates the driller would be available to install the soil borings.

38. On September 24, 2024, the Operator responded via email stating “It is my understanding that all of the SLO requirements have been completed as the cultural survey was done last week. Once we get a copy of the survey, John or I will provide it to you and SLO. At this point the only thing we are waiting on to implement the SLO approved delineation plan is the driller schedule. As far as I am aware no additional sampling has been done since May of 2023. Once we have confirmed dates from the driller we will share them with you and SLO.”
39. On October 7, 2024, OCD sent an email requesting whether the drill rig had been scheduled and asked for the date to be provided.
40. On November 19, 2024, OCD sent an email to the Operator requesting a detailed timeframe for the remediation and reclamation of incident numbers [nOY1813152090](#) and [nKL1625134663](#).
41. On December 5, 2024, The Operator copied OCD in an email to the State Land Office (SLO) stating “I am sorry, it looks like we might have missed this email from Britany in the Thanksgiving craziness. We are having bi-weekly meetings with John regarding this project. From our last meeting, it is my understanding that we are just waiting on a date from the driller. We discussed the option of using a backhoe to accelerate the sampling, but decided that we will need to wait for the driller as we ran into some very hard layers that the backhoe couldn’t break through when we collected the prior samples that were presented to you all last year. I will follow up with John today to verify that this is still the status. I believe the holidays have caused some delays in scheduling. I will send a follow up to this email after speaking with John.”
42. On December 5, 2024, OCD responded to the email received which stated “As requested on November 19, 2024, please send a detail timeframe for the remediation and reclamation of incident numbers [nOY1813152090](#) and [nKL1625134663](#). Include any correspondence from all drilling contractors that have been contacted, including correspondence on when rigs are available. Additionally, please include a timeline of events that have occurred since the date of discovery of each incident. These incidents had due dates of May 2, 2024, which was 217 days ago. Per previous emails, the EM survey was completed on October 8th and the results were being processed. Has that been completed? If so, please send a copy of the EM survey with the requested timeframe and timeline.”
43. On December 6, 2024, OCD received a response from the Operator stating “We are analyzing the EM survey data now and expect to be done in a week or two. I understand that it’s taking longer than expected to address remediation and reclamation of incidents nOY1813152090 and nKL1625134663; however, our investigation area covers a much larger region than where the two spills occurred (i.e., within the former AST containment) and we are also trying to satisfy SLO requests. We’ll let you know once analysis of the EM survey data is complete and have scheduled drilling. After the investigation work is complete, we’ll be in a better position to provide a schedule for remediation and reclamation.”
44. On January 7, 2025, The Operator copied OCD in a response to SLO stating “Attached is a figure summarizing the EM survey results at the Buckeye State AF #003 site. We used linear regression to provide a preliminary estimate of areas exceeding 600-mg/kg chloride and to delineate potential excavation areas. The linear regression uses soil chloride data from the December 2023 soil sampling. Please note: there are a few areas with elevated TPH that are not addressed on the attached figure and that actual excavation areas will likely be more square and

rectangle. The EM survey was conducted in October 2023. We contracted Atkins Engineering to complete the survey. They also captured an aerial photograph of the site with a drone. The aerial is shown in the attached figure. The EM survey was completed using both an EM31 and EM38, and by varying coil spacing and orientation so that we could image different depths. These data are in the GIS we used to prepare the attached figure. We're going to place the raw data on separate maps and send them to you in a separate email (hopefully later today or tomorrow). We've obtained a quote from Atkins Engineering to complete the borehole investigation. I've considered modifying the borehole investigation work some based on the EM survey results but need to discuss it more with Buckeye. We'll obtain SLO approval before moving forward with any changes."

45. On January 8, 2025, OCD responded to the email stating "Thank you for the information. As Buckeye Disposal, L.L.C. (222759) has not met previous conditions stipulated by the OCD, Buckeye Disposal and these incidents are now under a compliance review."
46. On March 4, 2025, Operator submitted a Remediation Plan.
47. On March 12, 2025, OCD rejected the Remediation Plan for the following reasons:
 - a. "As per the last rejection, per 19.15.29.12 C.(4) NMAC If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to ground water in Table I of 19.15.29.12 NMAC: (c) within (ii) 1000 feet of any fresh water well or spring. The release is within 1000 feet of a fresh water well and regardless of depth to groundwater, the release must be delineated, both horizontally and vertically, and remediated to the most stringent closure standards in Table I.
 - b. The question "Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)" was answered "Between ½ and 1 (mi.)." There is a playa lake located southeast of the former tank battery with in approximately 300 feet.
 - c. OCD does not approve the remediation proposal: "Buckeye will attempt to excavate soil to a depth of 4 feet unless one of the following conditions is met: (1) field screening and confirmation soil sampling data indicate that soil meets the aforementioned standards or (2) consolidated caliche or bedrock is encountered and cannot be penetrated."
 - d. OCD does not approve the remediation proposal to "excavate impacted soil from a depth of up to 4 feet and replace it with clean fill." The remediation must meet the most stringent closure criteria and the excavations must be advanced past 4 feet below ground surface.
 - e. The question regarding the distance to "A wetland" was answered "Between ½ and 1 (mi.)." There is a mapped wetland located southeast of the former tank battery with in approximately 300 feet.
 - f. Per 19.15.29.7 C. NMAC, "Responsible party" means the operator, as defined in 19.15.2 NMAC. Notwithstanding the foregoing, the division, in its sole discretion, may also consider a person causing the release, or controlling the location of the release as the responsible party. OCD will hold the operator of the site responsible for all releases that occurred at the site, including any pipeline releases that may have affected the site.
 - g. Vertical delineation is incomplete.

- h. All samples collected in December 1, 2023 have the qualifier "HDSP-1 for the BTEX and TPH samples. This qualifier indicates "Sample container had headspace. Results may be biased low." OCD will not accept these results.
- i. Be advised that this submittal is not applicable to NKL1625134663. This report was not submitted for NKL1625134663. NKL1625134663 is out of compliance.
- j. The question "Categorize the risk of this well / site being in a karst geology" was answered "None" but it is categorized as low karst potential.
- k. The question "Did the release impact areas not on an exploration, development, production, or storage site" was answered "No" but based off of the data provided in the report this release did impact areas not on an exploration, development, production, or storage site.
- l. The question "Was this release entirely contained within a lined containment area" was answered "Yes". Data included in the report indicates that this release was not entirely contained within a lined containment area.
- m. Submit a complete and accurate report through the OCD Permitting website by 4/11/2025."

(3) *Compliance*: No later than thirty (30) business days after issuance of this NOV, Operator shall:

- n. Submit a complete and accurate Site Characterization and Remediation Plan pursuant to 19.15.29 NMAC.
- o. Submit a complete and accurate Remediation Closure Report and Reclamation Report no later than ninety (90) days after the OCD approves the Site Characterization and Remediation Plan.

No later than fifteen (15) business days after issuance of this NOV, Operator shall:

- p. Send an update to OCD staff on the following open incidents:
 - i. nAB1927632580
 - ii. nAB1426550986
 - iii. nPRS0522956951
 - iv. nSAD0430954509
 - v. nBZH2501038804

The updates for the abovementioned incidents must include a summary to all remedial activities performed to date, a timeline for each incidents that outlines how and when the incidents will be brought into compliance, and any additional information regarding why these incidents are out of compliance.

(4) *Sanction(s)*: OCD may impose one or more of the following sanctions:

- civil penalty
- modification, suspension, cancellation, or termination of a permit or authorization
- shutting in a well or wells
- plugging and abandonment of a well
- remediation and restoration of a well location and associated facilities, including the removal of surface and subsurface equipment and other materials
- remediation and restoration of a location affected by a spill or release
- forfeiture of financial assurance
- any other remedy authorized by law

For the alleged violations described above and consistent with applicable law, OCD proposes the following sanctions (one or more of which may ultimately be selected):

- Civil Penalty:

OCD proposes a cumulative total of \$1,604,500 for ten (10) separate violations related to the State AF #003 (30-025-20980) Incident #NKL1625134663 and Incident #NOY1813152090 as detailed in the civil penalty calculations, attached and incorporated as Exhibit A. The civil penalties were calculated as of 01/09/2025. OCD may recalculate the civil penalties for ongoing violations occurring on or after the date of issuance of this NOV and will take into consideration Operator's good faith effort to comply with the applicable requirements.

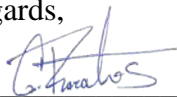
The civil penalty calculations are attached. OCD may recalculate the civil penalties for ongoing violations occurring on or after the date of issuance of this NOV and will take into consideration Operator's good faith effort to comply with the applicable requirements.

(5) Informal Review and Resolution: A process is available for the informal review and resolution of the alleged violations in the NOV. To initiate the informal review process, contact the OCD employee identified at the end of this letter. If OCD and the alleged violator agree to resolve the alleged violations in the NOV, the agreement will be incorporated into a stipulated final order signed by both parties and stating that the alleged violator admits OCD's jurisdiction to file the NOV, consents to the specified relief, including the civil penalty, if any, and waives the right of review by the Oil Conservation Commission.

(6) Hearing: If this Notice of Violation is not resolved within thirty (30) days of receipt of service, OCD will hold a hearing on July 10, 2025. Please see 19.15.5.10 NMAC for more information regarding the hearing. However, please note that the hearing does not prohibit OCD from negotiating with the alleged violator at any time to settle the NOV.

For more information regarding this NOV, contact Jesse Tremaine, OCD Legal Director, at (505) 231-9312 or JesseK.Tremaine@emnrd.nm.gov.

Regards,



Gerasimos Razatos
Director (Acting)

4/3/2025

Date

cc: EMNRD-OGC



August 14, 2019

Mr. Jim Griswold
Environmental Bureau Chief
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Mr. John Winscott
Business Lease Manager
New Mexico State Land Office
310 Old Santa Fe Trail,
Santa Fe NM 87501

Delivered via e-mail: Jim.Griswold@state.nm.us; jwiscott@slo.state.nm.us

Re: Buckeye Disposal, LLC
Work Plan for Characterization and Remediation of State AF #003 SWD Site
Remediation Permits 1RP-4429 and 1RP-5056

Dear Messrs. Griswold and Winscott:

On behalf of Buckeye Disposal, Inc. (Buckeye), Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this work plan describing activities to characterize the extent of soil impacts caused by two releases of produced water at the off-loading facility at the State AF #003 SWD site (the site). The Site is operated by Buckeye. The facility is located on State of New Mexico Business Lease BL-2050 in Section 8, Township 18 South, Range 35 East, NMPM. This letter summarizes the two releases and actions taken to date, and provides proposed actions to complete site characterization.

Actions to Date

Buckeye submitted Release Notification Forms C-141 to the Oil Conservation Division (OCD) regarding the releases on August 20, 2016 and May 11, 2018. Both releases occurred within the tank containment area, which is lined with 40-mil high-density polyethylene (HDPE) flexible membrane. In response to these notifications, the OCD assigned remediation permit 1RP-4429 on September 7, 2016 and remediation permit 1RP-5056 on May 11, 2018.

On October 3, 2016, Buckeye submitted a work plan to the OCD in response to 1RP-4429. The work plan included the cleaning and removal of the containment liner, collection of soil samples to be submitted for laboratory analyses, removal and replacement of contaminated soil, installation of a new liner, and painting of the facility. A review of OCD's on-line records indicates that OCD received the work plan, but it is unclear whether OCD approved this work plan.

Daniel B. Stephens & Associates, Inc.

In response to the Release Notification Form C-141 dated May 11, 2018, OCD requested that Buckeye inspect the liner to determine its integrity and submit a report. OCD also issued 1R-5056, which generally reiterates requirements for site characterization provided in 19.15.29.11 NMAC.

In December 2018, e-mails between Buckeye and the State Land Office (SLO) indicated that Buckeye would take the following steps to characterize site conditions: cleaning and inspection of the liner, sampling and analysis of soils beneath the liner and outside the containment area, construction of a berm or other containment to prevent fluids from migrating off-site, removal of all unnecessary equipment from the site, and maintenance of the access road.

On February 14, 2019, a total of seven soil samples were collected from seven locations at the site, as shown on Figure 1. Samples were collected from depths up to 36 inches using a backhoe. The samples were submitted to Cardinal Laboratories in Hobbs, New Mexico and analyzed for total chloride. The sample results are shown on Figure 1 and Table 1. The laboratory report is provided as Attachment 1.

Information available online from the Office of the State Engineer (OSE) indicates that the depth to shallow groundwater at the well closest to the site is 105 feet below ground surface (bgs) (Figure 2). Based on the depth to shallow groundwater (greater than 100 feet), the OCD numerical limit for chloride is 20,000 milligrams per kilogram (mg/kg), as prescribed in Table 1 of 19.15.29.12 NMAC. Chloride concentrations in soil samples collected around the containment area in February 2019 range from 960 to 5,520 mg/kg, all well below the OCD numerical limit. Based on these results, chloride concentrations in soil outside the containment area do not require remediation.

Proposed Characterization

The structural integrity of the HDPE liner in the containment area has been compromised, and the liner needs to be replaced. For example, the liner is no longer secured to the tanks in some areas. Before additional investigation can be done, the HDPE liner will be removed and disposed of properly. OCD and SLO will be notified before this work is initiated.

Once the HDPE liner has been removed, the condition of the underlying soil will be inspected and photographed, and soil samples will be collected inside the containment at six locations. Sample locations will be determined after the liner is removed. A backhoe will be used to excavate into the heavily calichified soil. The lithology of soils encountered will be described. At least two soil samples from each test pit (highest observed contamination and deepest depth investigated) will be submitted for laboratory analysis. Soil samples will be collected directly from the backhoe bucket, placed in clean containers provided by the laboratory, properly labeled, and placed on ice. Chain-of-custody documents will be completed and the samples will be delivered to an analytical laboratory.

Mr. Jim Griswold and Mr. John Winscott
August 14, 2019
Page 3

In accordance with Table 1 of 19.15.29.12 NMAC, for a site where groundwater is more than 100 feet deep, samples will be submitted for laboratory analysis for the following constituents:

- Total petroleum hydrocarbons (TPH), including gasoline-range organics (GRO) (C8-C10), diesel-range organics (DRO) (>C10-C28), and motor oil-range organics (MRO) (>C28-C36) using EPA method 8015 modified
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA method 8021B
- Chloride using standard method 4500-Cl-B.

In addition to the samples collected inside the containment, the two February 2019 sampling locations with the highest chloride concentrations will be resampled and analyzed for TPH and BTEX. This is being done because these compounds were not analyzed for in the February 2019 samples.

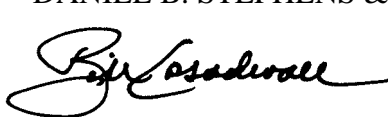
Laboratory results will be compared to the OCD numerical limits for sites where groundwater is more than 100 feet deep, per Table 1 of 19.15.29.12 NMAC. If soil results indicate the presence of contamination exceeding OCD numerical limits, additional samples will be collected if required to establish the lateral and vertical extent of contamination. Once the extent of contaminated soil has been established, the contaminated soil will be removed and properly disposed of. The excavated area will be backfilled with clean soil and compacted. A new HDPE liner will be installed within the containment.

Upon completion of site characterization and remediation, Buckeye will complete and submit the Site Characterization and Remediation portions of the Form C-141 to OCD.

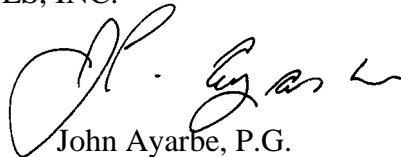
When your approval is received, Buckeye will implement this work plan. If you have any questions or comments regarding this work plan, please contact us at (505) 822-9400.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.



Bill Casadevall, C.P.G.
Geologist



John Ayarbe, P.G.
Senior Hydrologist

BC/rpf

Attachments

cc: Ryan Mann, State Land Office (rmann@slo.state.nm.us)
Vincent D'Alise, Standard Energy Services (vincent@thestandardenergy.com)
Saskia Bergstein Allen, Bergstein Enterprises (saskia@bergsteinenterprises.com)

Figures

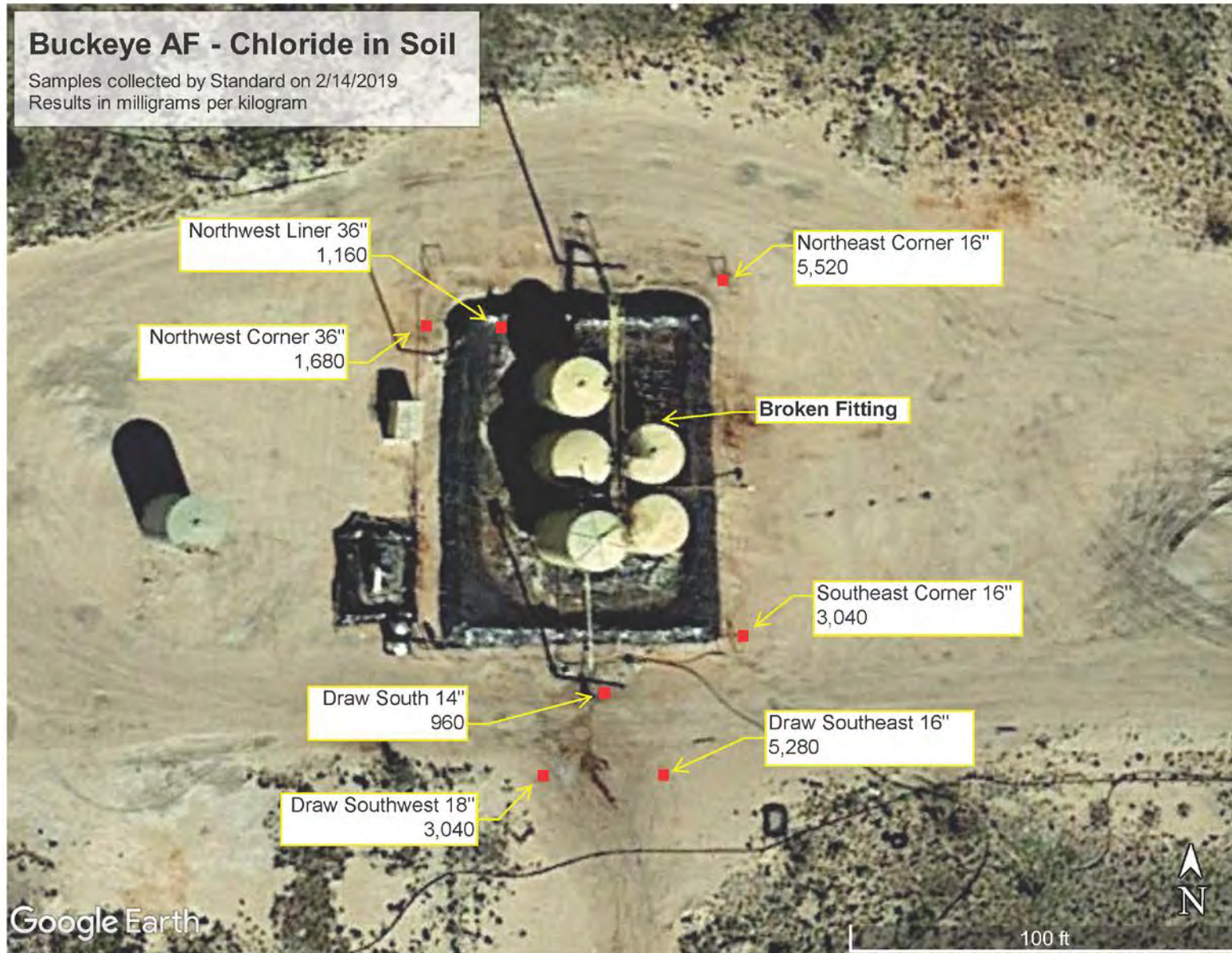


Figure 1



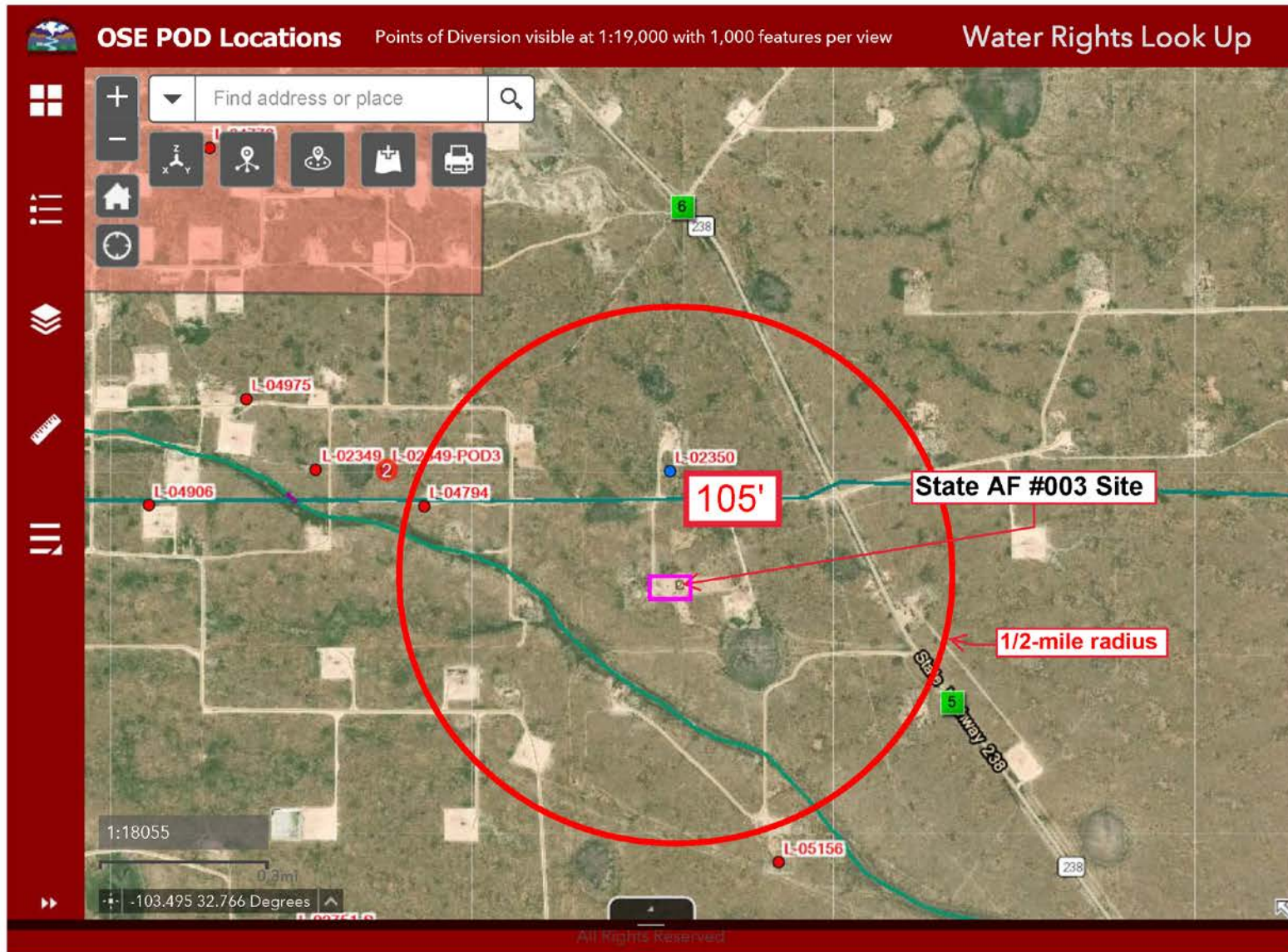


Figure 2



Daniel B. Stephens & Associates, Inc.

8/14/19

OCD Ex. 10-006

BUCKEYE STATE AF #003
Shallow Water Sources within 1/2 mile of Site

Table



Daniel B. Stephens & Associates, Inc.

Table 1. State AF #003 SWD Site Soil Chemistry, February 14, 2019

Analyte	Concentration (mg/kg)							
	OCD Limit ^a	Draw South 14"	Draw Southeast 16"	Draw Southwest 18"	Northeast Corner 16"	Southeast Corner 16"	Northwest Corner 36"	Northwest Liner 36"
Chloride	20,000	960	5,280	3,040	5,520	3,040	1,680	1,160

Source: Cardinal Laboratories, 2/19/2019

^a Standards from Table 1 of 19.15.29.12 NMAC for site where depth to groundwater >100 feet.

mg/kg = Milligrams per kilogram

OCD = Oil Conservation Division

Attachment 1
Laboratory Report



February 19, 2019

JIM SAYRE
BUCKEYE DISPOSAL, LLC
P. O. BOX 513
HOBBS, NM 88241

RE: BUCKEYE

Enclosed are the results of analyses for samples received by the laboratory on 02/15/19 8:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 BUCKEYE DISPOSAL, LLC
 JIM SAYRE
 P. O. BOX 513
 HOBBS NM, 88241
 Fax To: UNK-NOWN

 Received: 02/15/2019
 Reported: 02/19/2019
 Project Name: BUCKEYE
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 02/14/2019
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: DRAW SOUTH 14" (H900609-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	02/19/2019	ND	432	108	400	0.00	

Sample ID: NORTH EAST CORNER 16" (H900609-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	02/19/2019	ND	432	108	400	0.00	

Sample ID: SOUTH EAST CORNER 16" (H900609-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	02/19/2019	ND	432	108	400	0.00	

Sample ID: DRAW SOUTHEAST 16" (H900609-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	02/19/2019	ND	432	108	400	0.00	

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BUCKEYE DISPOSAL, LLC
 JIM SAYRE
 P. O. BOX 513
 HOBBS NM, 88241
 Fax To: UNK-NOWN

 Received: 02/15/2019
 Reported: 02/19/2019
 Project Name: BUCKEYE
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 02/14/2019
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: DRAW SOUTH WEST 18" (H900609-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	02/19/2019	ND	432	108	400	0.00	

Sample ID: NORTH WEST CORNER 36" (H900609-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	02/19/2019	ND	432	108	400	0.00	

Sample ID: NORTH WEST LINER 36" (H900609-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1160	16.0	02/19/2019	ND	432	108	400	0.00	

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

Company Name: <i>Buckeye Disposal</i>		BILL TO		ANALYSIS REQUEST							
Project Manager: <i>JIM SAYRE</i>		P.O. #:									
Address: <i>PO Box 513</i>		Company:									
City: <i>Hobbs</i> State: <i>NM</i> Zip: <i>88240</i>		Attn:									
Phone #: <i>575-361-5072</i> Fax #: <i>575-393-8352</i>		Address:									
Project #: Project Owner:		City:									
Project Name:		State: Zip:									
Project Location: <i>Buckeye</i>		Phone #:									
Sampler Name: <i>JIM SAYRE</i>		Fax #:									

FOR LAB USE ONLY		G/RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME
<i>H900609</i>	<i>1 Draw South 14"</i>	<i>G</i>	<i>1</i>			<input checked="" type="checkbox"/>						<i>2-14-19</i>	<i>17:30</i>	<i>✓</i>
	<i>2 North East Corner 16"</i>													
	<i>3 South East Corner 16"</i>													
	<i>4 Draw South East 16"</i>													
	<i>5 Draw South West 18"</i>													
	<i>6 North West Corner 36"</i>													
	<i>7 North West Liner 36"</i>													

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>J.D. Sayre</i>	Date: <i>2-15-19</i> Time: <i>0805</i>	Received By: <i>Jamara Oldat Key</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: (Initials) <i>J.S.</i> OGD Ex. 10-014	
REMARKS: <i>JIM@thestandardenergy.com</i>				

From: [Eads, Cristina, EMNRD](mailto:Eads.Cristina@EMNRD)
To: "casadevall@geo-logic.com"; "terry@thestandardenergy.com"
Cc: "rmann@slo.state.nm.us"; "saskia@bergsteinerenterprises.com"; [Bradford EMNRD Billings \(Bradford.Billings@state.nm.us\)](mailto:Bradford.Billings@state.nm.us)
Bcc: [Rose-Coss, Dylan H, EMNRD](mailto:Rose-Coss.Dylan.H@EMNRD)
Subject: Remediation Plan 1RP-4429 and 1RP-5056
Date: Wednesday, January 29, 2020 11:21:00 AM

To whom this may concern,

The NMOCD has reviewed the remediation plan titled, **Work Plan for Characterization and Remediation of State AF #003 SWD Site** for RPs 1RP-4429 and 1RP-5056.

This remediation plan is denied for the following reasons:

- Horizontal delineation is not complete. Buckeye will need to further assess the horizontal limits of the release to 600 mg/kg.
- NMOCD recommends for Buckeye Disposal to provide additional sampling locations for preapproval.
- Depth to groundwater is not adequately identified. When nearby wells are used to determine depth to groundwater, **the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old**, and well construction information should be provided. Buckeye Disposal (Buckeye) will need to drill a borehole on site to 51' bgs and leave it open for at least 24 hours. If there is no evidence of ground water after 24 hours, the OCD will review Buckeye's remediation plan with a copy of the driller's log (see stipulations below). If Buckeye chooses not to drill a borehole to confirm depth to groundwater, the impacted area will need to be further delineated to closure criteria for water at a depth of <50'. For further clarifications regarding the implementation of the spill rule, visit the OCD website: <http://www.emnrd.state.nm.us/OCD/documents/OCDInternalPolicy-SpillRuleClarifications.pdf>
- NMOCD recommends soil assessment to 4 feet below ground surface or to 600 mg/kg, whichever comes first, to determine the potential vertical remedial efforts.

In the future, a completed C-141 must be included with the submittal of incident related documents on the fee portal.

Thank you for your efforts on these releases. If you have any questions, please feel free to contact Brad Billings (Bradford.Billings@state.nm.us) or me (contact information below).

Cristina Eads

Environmental Bureau
EMNRD – Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505.476.3084
email: Cristina.Eads@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OCD Permitting

Home Searches Incidents Incident Details

NKL1625134663 2016 MINOR AIA OS @ 30-025-20980

General Incident Information

Well: [\[30-025-20980\]](#) STATE AF #003 [Edit](#)
 Facility:
 Operator: [\[222759\]](#) BUCKEYE DISPOSAL, L.L.C.
 Status: Active
 Stage: Initial C-141 Approved, Pending submission of Site Characterization / Remediation Plan OR Remediation Closure Report from the operator
 Type: Oil Release Severity:
 Incident Location: L-08-18S-35E 1980 FSL 990 FWL
 Lat/Long: [32.7605324,-103.4851837 NAD83](#)
 District: Hobbs County: Lea (25)
 Surface Owner: State

Severity Indicators

Resulted In Fire: Resulted In Injury:
 Endangered Public Health: Will or Has Reached Watercourse:
 Fresh Water Contamination: Property Or Environmental Damage:

Notes

Source of Referral: Oil Conservation Division Rep Action / Escalation:

Department Use Only

Contact Phone: Contact Email:
 Internal Comment:
 Confidential: Reviewer: Brittany Hall Take Reviewership

Contact Details

Contact Name: Contact Title:

Event Dates

Date of Discovery: 08/16/2016 Initial C-141 Report Due: 8/31/2016
 Remediation Closure Report Due: 11/13/2018
[Department Notes](#)

Incident Dates

19.15.29 NMAC - RELEASES

Type	Action	Received	Denied	Approved
Remediation Closure Report Extension		08/15/2018		08/15/2018

19.15.30 NMAC - REMEDIATION

Type	Action	Received	Denied	Approved
------	--------	----------	--------	----------

OCD Ex. 11-001

Quick Links

- [General Incident Information](#)
- [Materials](#)
- [Events](#)
- [Orders](#)
- [Action Status](#)

Associated Images

- Facility Files (0)
- [Incident Files \(2\)](#)
- [Well Files \(80\)](#)

Associated Inspections

- [Incident Inspections](#)
- [Incident Field Compliance](#)
- [Operator Inspections](#)
- [Operator Field Compliance](#)

New Searches

- [New Facility Search](#)
- [New Incident Search](#)
- [New Operator Search](#)
- [New Pit Search](#)
- [New Well Search](#)

Site Characterization Extension	02/01/2024	02/01/2024
Initial C-141 Report	09/07/2016	09/07/2016

Compositional Analysis of Vented and/or Flared Natural Gas

No Compositional Analysis Found

Incident Materials

Cause	Source	Material	Volume			Units	
			Unk.	Released	Recovered		Lost
Equipment Failure	Pipeline (Any)	Crude Oil	<input type="checkbox"/>	15	14	1	BBL
The concentration of dissolved chloride in the produced water >10,000 mg/l: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							

[Edit](#)

Incident Events

Date	Detail
10/22/2025	An application [451219] was submitted to OCD for review. It was submitted, indicating that it was an: [C-141] Application for administrative approval of a release notification and corrective action The operator was emailed confirmation of this event.
05/06/2025	Remediation plan denied. See application 451219 for reasons of rejection.
05/06/2025	The (10/22/2025, C-141) application [451219] was rejected by OCD. The operator was emailed with details of this event.
04/11/2025	The (10/22/2025, C-141) application [451219] was assigned to this incident.
09/17/2024	Incident numbers, nOY1813152090 and nKL1625134663, associated with the State AF #003 (30-025-20980) are out of compliance. Both incidents were granted 90-day extension requests on February 1, 2024, to facility Buckeye Disposal's compliance with the New Mexico State Land Office's (SLO) requirements. Site Characterization and Remediation Plans or Remediation Closure Reports were required to be submitted to OCD Permitting no later than May 2, 2024. As of today, September 17, 2024, OCD has not received any submittals for these two incidents. OCD WILL NOT approve any additional extension requests for nOY1813152090 and nKL1625134663. Remediation of these releases must be completed pursuant to 19.15.29 NMAC, including submission of approvable remediation plans, remediation closure reports, reclamation reports, and revegetation reports. OCD will use its enforcement discretion to determine if additional enforcement action is warranted. Cooperation from Buckeye Disposal L.L.C. will be considered when determining any enforcement actions, which may include civil penalties.
02/01/2024	Operator has requested a 90 day extension as they are working with the State Land Office and need time to coordinate field activities and obtain access and clearances (i.e., cultural compliance). Results of the characterization activities will be used to develop the remediation plan. Extension approved new due date is 5/2/2024.
01/29/2020	Remediation Plan denied. Delineation not complete. Depth to groundwater not identified.
09/07/2016	1RP 4429 Jamie Keyes & Kristen Lynch found this site during a field visit. Notification was made to Buckeye Disposal Jim Sayre on 8/16/2016, notifying him that a C-141 needed to be issued and that the site was in terrible condition. Liner ripped in the south eastern corner, 1-1/2 foot of asfalteens layered with salt crystals. NMOCD told him we needed a C-141 by 9/1/2016. On 9/1/2016 a call was made back to Buckeye Disposal letting them know if we did not get a C-141 that they would receive a Notice of Violation for failure to report. Also this facility is missing a sign. Received a C-141 9/1/16, which states: Broken 3" PVC line - Repair Broken 3" PVC line. Inside lined dyke - Repair liner, excavate fluid from inside dyke and mediate dirt inside the lined dyke.

[Edit](#)

OCD Ex. 11-002

Incident Corrective Actions

- No initial response data was found for this incident. [Create Initial Response Data](#)
- No site characterization data was found for this incident. [Create Site Characterization Data](#)
- No remediation plan data was found for this incident. [Create Remediation Plan Data](#)
- No active remediation deferral request was found for this incident. [Create Active Remediation Deferral Request Data](#)
- No remediation closure report data was found for this incident. [Create Remediation Closure Report Data](#)
- No reclamation report data was found for this incident. [Create Reclamation Report Data](#)
- No re-vegetation report data was found for this incident. [Create Re-vegetation Report Data](#)

Orders

[1RP-4429-0](#) 

Applicant:	[237120] BUCKEYE DISPOSAL LLC	Approved By:	SLO
Contact:	Jim Sayre	Issuing Office:	Hobbs
Reviewer:	Kristen Lynch		

Processing Dates

Received:		Ordered:	09/07/2016
Approved:	09/07/2016	Denied:	
Expiration:	11/07/2016	Cancelled:	

RE: [EXTERNAL] Buckeye State AF #003 remediation plan extension request

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

Date Thu 2/1/2024 2:13 PM

To Ayarbe, John <jayarbe@geo-logic.com>

Cc saskia@thestandardenergy.com <saskia@thestandardenergy.com>; pieter@thestandardenergy.com <pieter@thestandardenergy.com>

John,

The extension requests for NOY1813152090 and NKL1625134663 are approved. The new due date for the releases is 5/2/2024.

Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Brittany Hall • Environmental Specialist

Environmental Bureau Projects Group

EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87110

505.517.5333 | Brittany.Hall@emnrd.nm.gov

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

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

From: Ayarbe, John <jayarbe@geo-logic.com>

Sent: Thursday, February 1, 2024 10:56 AM

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

Cc: saskia@thestandardenergy.com; pieter@thestandardenergy.com

Subject: [EXTERNAL] Buckeye State AF #003 remediation plan extension request

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

Hi Brittany,

I'm submitting this email to you on behalf of Buckeye Disposal LLC (Buckeye) to request an extension for the submittal of a revised remediation plan for the State AF #003 site near Hobbs, New Mexico (incident #s NOY1813152090 and NKL1625134663).

We are seeking a 90-day extension from tomorrow (due date of 5/2/2024). We are working with the State Land Office to better characterize conditions at the site and need time to coordinate field activities and obtain access and clearances (i.e., cultural compliance). Results of the characterization activities will be used to develop the remediation plan.

Thanks!

John P. Ayarbe

Senior Hydrogeologist

Daniel B. Stephens & Associates, Inc.

a Geo-Logic Company

6020 Academy Road NE, Suite 100

Albuquerque, New Mexico 87109

Office: (505) 822-9400 | Direct: (505) 353-9137

Mobile: (505) 280-4339

jayarbe@dbstephens.com or jayarbe@geo-logic.com

www.dbstephens.com | www.geo-logic.com

The contents of this e-mail message, including any attachments, are for the sole use of the intended recipient named above. This email may contain confidential and/or legally privileged information. If you are not the intended recipient of this message, be advised that any dissemination, distribution, or use of the contents of this message is strictly prohibited. If you receive this message in error, please notify the sender by return e-mail and permanently delete all copies of the original e-mail and any attached documentation. Thank you.

[EXTERNAL] RE: Remediation plan for nOY1813152090 and nKL1625134663

From Ayarbe, John <jayarbe@geo-logic.com>

Date Tue 7/2/2024 10:32 AM

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

Cc Moellenberg, Dalva L. <dml@gknet.com>; saskia@thestandardenergy.com <saskia@thestandardenergy.com>; pieter@thestandardenergy.com <pieter@thestandardenergy.com>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

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

Ms. Hall,

The State Land Office approved Buckeye's site assessment plan (SAP) last Friday (6/28/2024). As you know, the investigation activities proposed in the SAP are needed for the Site Characterization and Remediation Plan that we intend to submit to OCD. We've been including you on the emails to SLO regarding the SAP to keep you updated but should have formally requested another extension. I apologize.

I was under the impression that meeting the additional requirements of SLO was inline with us also meeting your expectations for the two documented releases and collection of data to support remediation and reclamation. We intend to report all data collected during implementation of the SAP to OCD in the Site Characterization and Remediation Plan.

SLO just approved the SAP. We still need to obtain a Right-of-Entry permit and consult with the SLO Cultural Resources Office. I'm starting these additional requirements this week and will have a better idea of when we can start investigation activities and submit the Site Characterization and Remediation Plan to OCD after I make headway on these two requirements.

Thanks!

John P. Ayarbe

Senior Hydrogeologist

Daniel B. Stephens & Associates, Inc.

a Geo-Logic Company

Direct: (505) 353-9137

Mobile: (505) 280-4339

The contents of this e-mail message, including any attachments, are for the sole use of the intended recipient named above. This email may contain confidential and/or legally privileged information. If you are not the intended recipient of this message, be advised that any dissemination, distribution, or use of the contents of this message is strictly prohibited. If you receive this message in error, please notify the sender by return e-mail and permanently delete all copies of the original e-mail and any attached documentation. Thank you.

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

Sent: Monday, July 1, 2024 11:39 AM

To: Ayarbe, John <jayarbe@geo-logic.com>

Cc: Moellenberg, Dalva L. <dml@gknet.com>; saskia@thestandardenergy.com; pieter@thestandardenergy.com; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: Remediation plan for nOY1813152090 and nKL1625134663

OCD Ex. 13-001

Mr. Ayarbe,

The OCD is requesting a status update on the submission of a Site Characterization and Remediation Plan for the State AF #003 (incident #nOY1813152090 and incident #nKL1625134663). Two extensions were approved on 12/5/2023 and 2/1/2024. The Site Characterization and Remediation Plan was due to the OCD on 5/2/2024 as communicated in email correspondence between you and I on 2/1/2023. These releases are 60 days out of compliance and may be subject to compliance and enforcement penalties which includes civil penalties pursuant to 19.15.5 NMAC.

The OCD has jurisdiction to regulate oil & gas unauthorized releases and the operators who control those locations pursuant to 19.15.29 NMAC. Additional requirements imposed on the operator from other regulatory agencies for potential releases that have not been reported to the OCD are not acceptable reasons to not meet the requirements of 19.15.29 NMAC for the reported releases. Please be advised that any additional unauthorized releases discovered during SLO mandated delineation activities will need to be reported to the OCD.

Does the approval from SLO on 6/26/2024 give Buckeye Disposal, LLC the clearances to begin the delineation of nOY1813152090 and nKL1625134663? Incident nOY1813152090 was discovered 2,258 days ago and nKL1625134663 was discovered 2,876 days ago, yet Buckeye Disposal, LLC has not performed any remediation at the site. The OCD is also requesting a date on when Buckeye will submit a complete Site Characterization and Remediation Plan through OCD Permitting for both incidents.

Thank you,

Brittany Hall • Environmental Specialist

Environmental Bureau Projects Group

EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87110

505.517.5333 | Brittany.Hall@emnrd.nm.gov

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

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

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

From saskia@thestandardenergy.com <saskia@thestandardenergy.com>

Date Tue 9/24/2024 10:02 AM

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

Cc Moellenberg, Dalva L. <dml@gknet.com>; pieter@bergsteinerprises.com <pieter@bergsteinerprises.com>; tknight <tknight@slo.state.nm.us>; 'Heltman, Elaine G.' <eheltman@slo.state.nm.us>; 'Crosby, Faith' <fcrosby@slo.state.nm.us>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@emnrd.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrd.nm.gov>; 'Bisbey-Kuehn, Elizabeth A.' <ebisbeykuehn@nmslo.gov>; 'Barnes, Will' <wbarnes@nmslo.gov>; 'Biernoff, Ari' <abiernoff@slo.state.nm.us>; 'Ayarbe, John' <jayarbe@geo-logic.com>

Hi Brittany,

We will keep you updated as the progress continues.

It is my understanding that all of the SLO requirements have been completed as the cultural survey was done last week. Once we get a copy of the survey, John or I will provide it to you and SLO.

At this point the only thing we are waiting on to implement the SLO approved delineation plan is the driller schedule. As far as I am aware no additional sampling has been done since May of 2023.

Once we have confirmed dates from the driller we will share them with you and SLO.

Best,
Saskia

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

Sent: Monday, September 23, 2024 3:34 PM

To: saskia@thestandardenergy.com

Cc: Moellenberg, Dalva L. <dml@gknet.com>; pieter@bergsteinerprises.com; tknight <tknight@slo.state.nm.us>; 'Heltman, Elaine G.' <eheltman@slo.state.nm.us>; 'Crosby, Faith' <fcrosby@slo.state.nm.us>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@emnrd.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrd.nm.gov>; 'Bisbey-Kuehn, Elizabeth A.' <ebisbeykuehn@nmslo.gov>; 'Barnes, Will' <wbarnes@nmslo.gov>; 'Biernoff, Ari' <abiernoff@slo.state.nm.us>; 'Ayarbe, John' <jayarbe@geo-logic.com>

Subject: RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

Saskia,

Thank you for the update. Please continue to keep OCD informed as the delineation of the site is started, in progress, and completed. A remediation plan must be submitted to the OCD through the Permitting website when delineation is complete.

Are all SLO requirements (ROW/ROE, cultural surveys, etc.) completed? If so, can the SLO approved delineation plan be implemented? Has any additional soil sampling been completed at the site since May 2023?

Can you also please provide the dates that the driller will be available to install the soil borings?

Thank you,

Brittany Hall • Environmental Specialist
Environmental Bureau Projects Group

EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | Brittany.Hall@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd/>

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

From: saskia@thestandardenergy.com <saskia@thestandardenergy.com>

Sent: Monday, September 23, 2024 1:32 PM

To: 'Biernoff, Ari' <abiernoff@slo.state.nm.us>; Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; 'Ayarbe, John' <jayarbe@geo-logic.com>

Cc: Moellenberg, Dalva L. <dml@gknet.com>; pieter@bergsteinerenterprises.com; tknight <tknight@slo.state.nm.us>; 'Heltman, Elaine G.' <eheltman@slo.state.nm.us>; 'Crosby, Faith' <fcrosby@slo.state.nm.us>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@emnrd.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrd.nm.gov>; 'Bisbey-Kuehn, Elizabeth A.' <ebisbeykuehn@nmslo.gov>; 'Barnes, Will' <wbarnes@nmslo.gov>

Subject: FW: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

Some people who received this message don't often get email from saskia@thestandardenergy.com. [Learn why this is important](#)
Hi all,

I received a mail delivery failure notification for all of the recipients at SLO on this thread so I am resending it using an alternate email address I have for all the SLO folks.

See update below:

From: saskia@thestandardenergy.com <saskia@thestandardenergy.com>

Sent: Monday, September 23, 2024 2:08 PM

To: 'Biernoff, Ari' <abiernoff@nmslo.gov>; 'Hall, Brittany, EMNRD' <Brittany.Hall@emnrd.nm.gov>; 'Ayarbe, John' <jayarbe@geo-logic.com>

Cc: 'Moellenberg, Dalva L.' <dml@gknet.com>; 'pieter@thestandardenergy.com' <pieter@thestandardenergy.com>; 'Knight, Tami C.' <tknight@nmslo.gov>; 'Heltman, Elaine G.' <eheltman@nmslo.gov>; 'Crosby, Faith' <fcrosby@nmslo.gov>; 'Smith, Cory, EMNRD' <cory.smith@emnrd.nm.gov>; 'Powell, Brandon, EMNRD' <Brandon.Powell@emnrd.nm.gov>; 'Romero, Rosa, EMNRD' <RosaM.Romero@emnrd.nm.gov>; 'Bisbey-Kuehn, Elizabeth A.' <ebisbeykuehn@nmslo.gov>; 'Barnes, Will' <wbarnes@nmslo.gov>

Subject: RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

Hi Brittany,

I apologize for the lack in communications directly to you regarding this project. I want to assure you we have been working on this and we have no intention in causing any intentional delays.

We had a delay in the right of way paperwork as there was some confusion on the correct lease to be used. Once we got the correct lease document, we e-signed it and returned it right away.

Before we can complete the agreed upon delineation testing, we had to complete a cultural resources survey. I followed up with John Ayarbe with Daniel B Stephens and he said this survey was completed last week. There are no concerns and we should the report this week.

The ground is very hard at this location so John is currently working on getting cost estimates and schedule availability for a driller to come out and drill boreholes to collect samples. We also believe that with a driller, we will be able to collect better data and minimize disturbance of the site.

I will continue to send you updates once we lock down a date with the driller.

Please consider this communication to represent our intentions and understanding of the seriousness and urgency of this matter. We not only aim to avoid penalties, but we want to get this project completed and move forward without delay.

Best,
Saskia

From: saskia@thestandardenergy.com <saskia@thestandardenergy.com>

Sent: Wednesday, September 18, 2024 4:01 PM

To: 'Biernoff, Ari' <abiernoff@nmslo.gov>; 'Hall, Brittany, EMNRD' <Brittany.Hall@emnrd.nm.gov>; 'Ayarbe, John' <jayarbe@geo-logic.com>

Cc: 'Moellenberg, Dalva L.' <dlm@gknet.com>; 'pieter@thestandardenergy.com' <pieter@thestandardenergy.com>; 'Knight, Tami C.' <tknight@nmslo.gov>; 'Heltman, Elaine G.' <eheltman@nmslo.gov>; 'Crosby, Faith' <fcrosby@nmslo.gov>; 'Smith, Cory, EMNRD' <cory.smith@emnrd.nm.gov>; 'Powell, Brandon, EMNRD' <Brandon.Powell@emnrd.nm.gov>; 'Romero, Rosa, EMNRD' <RosaM.Romero@emnrd.nm.gov>; 'Bisbey-Kuehn, Elizabeth A.' <ebisbeykuehn@nmslo.gov>; 'Barnes, Will' <wbarnes@nmslo.gov>

Subject: RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

Will do!

Thank you!

Saskia

From: Biernoff, Ari <abiernoff@nmslo.gov>

Sent: Wednesday, September 18, 2024 3:19 PM

To: saskia@thestandardenergy.com; 'Hall, Brittany, EMNRD' <Brittany.Hall@emnrd.nm.gov>; 'Ayarbe, John' <jayarbe@geo-logic.com>

Cc: 'Moellenberg, Dalva L.' <dlm@gknet.com>; pieter@thestandardenergy.com; Knight, Tami C. <tknight@nmslo.gov>; Heltman, Elaine G. <eheltman@nmslo.gov>; Crosby, Faith <fcrosby@nmslo.gov>; 'Smith, Cory, EMNRD' <cory.smith@emnrd.nm.gov>; 'Powell, Brandon, EMNRD' <Brandon.Powell@emnrd.nm.gov>; 'Romero, Rosa, EMNRD' <RosaM.Romero@emnrd.nm.gov>; Bisbey-Kuehn, Elizabeth A. <ebisbeykuehn@nmslo.gov>; Barnes, Will <wbarnes@nmslo.gov>

Subject: RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

Saskia/Dal et al. –

Please make sure to cc the State Land Office (everyone cc'd on this email) on any communications you have with OCD regarding this site.

/Ari Biernoff

From: saskia@thestandardenergy.com <saskia@thestandardenergy.com>

Sent: Wednesday, September 18, 2024 2:18 PM

To: 'Hall, Brittany, EMNRD' <Brittany.Hall@emnrd.nm.gov>; Biernoff, Ari <abiernoff@nmslo.gov>; 'Ayarbe, John' <jayarbe@geo-logic.com>

Cc: 'Moellenberg, Dalva L.' <dlm@gknet.com>; pieter@thestandardenergy.com; Knight, Tami C. <tknight@nmslo.gov>; Heltman, Elaine G. <eheltman@nmslo.gov>; Crosby, Faith <fcrosby@nmslo.gov>; 'Smith, Cory, EMNRD' <cory.smith@emnrd.nm.gov>; 'Powell, Brandon, EMNRD' <Brandon.Powell@emnrd.nm.gov>; 'Romero, Rosa, EMNRD' <RosaM.Romero@emnrd.nm.gov>

Subject: RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

Hi Brittany,

I understand and acknowledge receipt of your email. OCD Ex. 14-003

We are working on this and making strides. With the urgency and importance of our response I feel that it we need to consult with our legal counsel before sending a formal response. I am trying to get a call schedule for tomorrow morning.

Please know that we understand the importance of pushing forward with this project and we will do anything we can to prevent further delays.

Best,
Saskia

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

Sent: Tuesday, September 17, 2024 10:37 AM

To: Biernoff, Ari <abiernoff@slo.state.nm.us>; Ayarbe, John <jayarbe@geo-logic.com>

Cc: Moellenberg, Dalva L. <dlm@gknet.com>; saskia@thestandardenergy.com; pieter@thestandardenergy.com; tknight <tknight@slo.state.nm.us>; Heltman, Elaine G. <eheltman@slo.state.nm.us>; Crosby, Faith <fcrosby@slo.state.nm.us>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@emnrd.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrd.nm.gov>

Subject: RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

John and Buckeye Disposal L.L.C. representatives,

Incident numbers, nOY1813152090 and nKL1625134663, associated with the State AF #003 (30-025-20980) are out of compliance. Both incidents were granted 90-day extension requests on February 1, 2024, to facility Buckeye Disposal's compliance with the New Mexico State Land Office's (SLO) requirements. Site Characterization and Remediation Plans or Remediation Closure Reports were required to be submitted to OCD Permitting no later than May 2, 2024. As of today, September 17, 2024, OCD has not received any submittals for these two incidents.

OCD will not approve any additional extension requests for nOY1813152090 and nKL1625134663. Remediation of these releases must be completed pursuant to 19.15.29 NMAC, including submission of approvable remediation plans, remediation closure reports, reclamation reports, and revegetation reports. OCD will use its enforcement discretion to determine if additional enforcement action is warranted. Cooperation from Buckeye Disposal L.L.C. will be considered when determining any enforcement actions, which may include civil penalties.

Thank you,

Brittany Hall • Environmental Specialist

Environmental Bureau Projects Group

EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87110

505.517.5333 | Brittany.Hall@emnrd.nm.gov

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

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

From: Biernoff, Ari <abiernoff@slo.state.nm.us>

Sent: Thursday, September 5, 2024 4:39 PM

To: Ayarbe, John <jayarbe@geo-logic.com>

Cc: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Moellenberg, Dalva L. <dlm@gknet.com>; saskia@thestandardenergy.com; pieter@thestandardenergy.com; tknight <tknight@slo.state.nm.us>; Heltman, Elaine G. <eheltman@slo.state.nm.us>; Crosby, Faith <fcrosby@slo.state.nm.us>

Subject: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

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

OK, John. My understanding is that it took Buckeye and/or DBS a month to sign and mail back the ROE permit. Let us know how we can help to keep this process moving. We'll await further updates.

/Ari

From: Ayarbe, John <jayarbe@geo-logic.com>

Sent: Thursday, September 5, 2024 3:46 PM

To: Biernoff, Ari <abiernoff@slo.state.nm.us>

Cc: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Dalva Moellenberg <DLM@gknet.com>;

saskia@thestandardenergy.com; pieter@thestandardenergy.com; Knight, Tami C. <tknight@slo.state.nm.us>; Heltman, Elaine

G. <eheltman@slo.state.nm.us>; Crosby, Faith <fcrosby@slo.state.nm.us>

Subject: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

Ari,

I received the Right-of-Entry permit yesterday. I'm coordinating the cultural resource evaluation now. I'll let you know when the cultural resource evaluation is complete and we have the field work scheduled.

Thanks,

John P. Ayarbe

Senior Hydrogeologist

Daniel B. Stephens & Associates, Inc.

a Geo-Logic Company

Direct: (505) 353-9137

Mobile: (505) 280-4339

The contents of this e-mail message, including any attachments, are for the sole use of the intended recipient named above. This email may contain confidential and/or legally privileged information. If you are not the intended recipient of this message, be advised that any dissemination, distribution, or use of the contents of this message is strictly prohibited. If you receive this message in error, please notify the sender by return e-mail and permanently delete all copies of the original e-mail and any attached documentation. Thank you.

From: Biernoff, Ari <abiernoff@slo.state.nm.us>

Sent: Wednesday, September 4, 2024 7:01 PM

To: Ayarbe, John <jayarbe@geo-logic.com>

Cc: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Dalva Moellenberg <DLM@gknet.com>;

saskia@thestandardenergy.com; pieter@thestandardenergy.com; Knight, Tami C. <tknight@slo.state.nm.us>; Heltman, Elaine

G. <eheltman@slo.state.nm.us>; Crosby, Faith <fcrosby@slo.state.nm.us>

Subject: RE: Buckeye State AF #003 SWD, Site Assessment Plan

John, can you please give us an update on sampling activities. /Ari Biernoff

From: Biernoff, Ari

Sent: Tuesday, July 16, 2024 10:34 AM

To: Ayarbe, John <jayarbe@geo-logic.com>

Cc: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Dalva Moellenberg <DLM@gknet.com>;

saskia@thestandardenergy.com; pieter@thestandardenergy.com; Knight, Tami C. <tknight@slo.state.nm.us>; Heltman, Elaine

G. <eheltman@slo.state.nm.us>; Crosby, Faith <fcrosby@slo.state.nm.us>

Subject: RE: Buckeye State AF #003 SWD, Site Assessment Plan

Thanks for the update.

From: Ayarbe, John <jayarbe@geo-logic.com>
Sent: Tuesday, July 16, 2024 10:33 AM
To: Biernoff, Ari <abiernoff@slo.state.nm.us>
Cc: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Dalva Moellenberg <DLM@gknet.com>; saskia@thestandardenergy.com; pieter@thestandardenergy.com; Knight, Tami C. <tknight@slo.state.nm.us>; Heltman, Elaine G. <eheltman@slo.state.nm.us>; Crosby, Faith <fcrosby@slo.state.nm.us>
Subject: [EXTERNAL] Re: Buckeye State AF #003 SWD, Site Assessment Plan

Ari,

Field activities have not started. We submitted our Right-of-Entry application and fees to SLO yesterday. We are also working on the cultural clearance.

Thanks!
John

Sent from my iPhone

On Jul 16, 2024, at 9:33 AM, Biernoff, Ari <abiernoff@slo.state.nm.us> wrote:

John, has delineation started yet? /Ari Biernoff

From: Biernoff, Ari
Sent: Friday, June 28, 2024 8:25 AM
To: Ayarbe, John <jayarbe@geo-logic.com>
Cc: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; 'Dalva Moellenberg' <DLM@gknet.com>; saskia@thestandardenergy.com; pieter@thestandardenergy.com; Knight, Tami C. <tknight@slo.state.nm.us>; Heltman, Elaine G. <eheltman@slo.state.nm.us>; Crosby, Faith <fcrosby@slo.state.nm.us>
Subject: RE: Buckeye State AF #003 SWD, Site Assessment Plan

John, thanks for addressing our question/comment. We are ready to see DBS/Buckeye proceed with the delineation along the lines we discussed at our meeting last week and memorialized in your letter from yesterday. /Ari Biernoff

From: Ayarbe, John <jayarbe@geo-logic.com>
Sent: Thursday, June 27, 2024 6:22 PM
To: Biernoff, Ari <abiernoff@slo.state.nm.us>; Knight, Tami C. <tknight@slo.state.nm.us>
Cc: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; 'Dalva Moellenberg' <DLM@gknet.com>; saskia@thestandardenergy.com; pieter@thestandardenergy.com
Subject: [EXTERNAL] Buckeye State AF #003 SWD, Site Assessment Plan

Hi Ari and Tami,

Attached is our final version of the letter regarding the conditions of approval for the site assessment plan and our understanding from last week's meeting and subsequent emails.

We're still working to find information showing the Vanguard line.

Thanks!

John P. Ayarbe
Senior Hydrogeologist

Daniel B. Stephens & Associates, Inc.

a Geo-Logic Company

6020 Academy Road NE, Suite 100

Albuquerque, New Mexico 87109

Office: (505) 822-9400 | Direct: (505) 353-9137

Mobile: (505) 280-4339

jayarbe@dbstephens.com or jayarbe@geo-logic.com

www.dbstephens.com | www.geo-logic.com

The contents of this e-mail message, including any attachments, are for the sole use of the intended recipient named above. This email may contain confidential and/or legally privileged information. If you are not the intended recipient of this message, be advised that any dissemination, distribution, or use of the contents of this message is strictly prohibited. If you receive this message in error, please notify the sender by return e-mail and permanently delete all copies of the original e-mail and any attached documentation. Thank you.

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.



Virus-free. www.avg.com

RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

From Ayarbe, John <jayarbe@geo-logic.com>

Date Fri 12/6/2024 12:01 PM

To Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; saskia@thestandardenergy.com <saskia@thestandardenergy.com>; 'Biernoff, Ari' <abiernoff@nmslo.gov>

Cc Moellenberg, Dalva L. <dml@gknet.com>; pieter@thestandardenergy.com <pieter@thestandardenergy.com>; 'Heltman, Elaine G.' <eheltman@nmslo.gov>; 'Crosby, Faith' <fcrosby@nmslo.gov>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@emnrd.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrd.nm.gov>; 'Bisbey-Kuehn, Elizabeth A.' <ebisbeykuehn@nmslo.gov>; 'Barnes, Will' <wbarnes@nmslo.gov>; 'Knight, Tami C.' <tknight@nmslo.gov>

Brittany,

We are analyzing the EM survey data now and expect to be done in a week or two. I understand that it's taking longer than expected to address remediation and reclamation of incidents nOY1813152090 and nKL1625134663; however, our investigation area covers a much larger region than where the two spills occurred (i.e., within the former AST containment) and we are also trying to satisfy SLO requests.

We'll let you know once analysis of the EM survey data is complete and have scheduled drilling. After the investigation work is complete, we'll be in a better position to provide a schedule for remediation and reclamation.

Thanks,

John P. Ayarbe

Senior Hydrogeologist

Daniel B. Stephens & Associates, Inc.

a Geo-Logic Company

Direct: (505) 353-9137

Mobile: (505) 280-4339

The contents of this e-mail message, including any attachments, are for the sole use of the intended recipient named above. This email may contain confidential and/or legally privileged information. If you are not the intended recipient of this message, be advised that any dissemination, distribution, or use of the contents of this message is strictly prohibited. If you receive this message in error, please notify the sender by return e-mail and permanently delete all copies of the original e-mail and any attached documentation. Thank you.

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

Sent: Thursday, December 5, 2024 1:35 PM

To: saskia@thestandardenergy.com; 'Biernoff, Ari' <abiernoff@nmslo.gov>; Ayarbe, John <jayarbe@geo-logic.com>

Cc: Moellenberg, Dalva L. <dml@gknet.com>; pieter@thestandardenergy.com; 'Heltman, Elaine G.' <eheltman@nmslo.gov>;

'Crosby, Faith' <fcrosby@nmslo.gov>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; Powell, Brandon, EMNRD

<Brandon.Powell@emnrd.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrd.nm.gov>; 'Bisbey-Kuehn, Elizabeth A.'

<ebisbeykuehn@nmslo.gov>; 'Barnes, Will' <wbarnes@nmslo.gov>; 'Knight, Tami C.' <tknight@nmslo.gov>

Subject: RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

Saskia,

As requested on November 19, 2024, please send a detail timeframe for the remediation and reclamation of incident numbers [nOY1813152090](#) and [nKL1625134663](#). Include any correspondence from all drilling contractors that have been contacted,

including correspondence on when rigs are available. Additionally, please include a timeline of events that have occurred since the date of discovery of each incident.

These incidents had due dates of May 2, 2024, which was 217 days ago. Per previous emails, the EM survey was completed on October 8th and the results were being processed. Has that been completed? If so, please send a copy of the EM survey with the requested timeframe and timeline.

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@emnrn.nm.gov
<http://www.emnrn.nm.gov/ocd/>

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

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

From: saskia@thestandardenergy.com <saskia@thestandardenergy.com>

Sent: Thursday, December 5, 2024 1:19 PM

To: 'Biernoff, Ari' <abiernoff@nmslo.gov>; Hall, Brittany, EMNRD <Brittany.Hall@emnrn.nm.gov>; 'Ayarbe, John' <jayarbe@geo-logic.com>

Cc: Moellenberg, Dalva L. <dldm@gknet.com>; pieter@thestandardenergy.com; 'Heltman, Elaine G.' <eheltman@nmslo.gov>; 'Crosby, Faith' <fcrosby@nmslo.gov>; Smith, Cory, EMNRD <cory.smith@emnrn.nm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@emnrn.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrn.nm.gov>; 'Bisbey-Kuehn, Elizabeth A.' <ebisbeykuehn@nmslo.gov>; 'Barnes, Will' <wbarnes@nmslo.gov>; 'Knight, Tami C.' <tknight@nmslo.gov>

Subject: RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

As of right now, we have been talking to several drillers to get scheduled. All of them say that we are looking at February before they can schedule our project.

Pieter, John, and I have a call scheduled for early next week to discuss options.

Please accept my apologies as this is a very large scale project and we want to be sure that we get it right. We have no desire to drag this on at all. I will be in touch next week after our meeting.

Best,
Saskia

From: Biernoff, Ari <abiernoff@nmslo.gov>

Sent: Thursday, December 5, 2024 1:54 PM

To: saskia@thestandardenergy.com; 'Hall, Brittany, EMNRD' <Brittany.Hall@emnrn.nm.gov>; 'Ayarbe, John' <jayarbe@geo-logic.com>

Cc: 'Moellenberg, Dalva L.' <dldm@gknet.com>; pieter@thestandardenergy.com; Heltman, Elaine G. <eheltman@nmslo.gov>; Crosby, Faith <fcrosby@nmslo.gov>; 'Smith, Cory, EMNRD' <cory.smith@emnrn.nm.gov>; 'Powell, Brandon, EMNRD' <Brandon.Powell@emnrn.nm.gov>; 'Romero, Rosa, EMNRD' <RosaM.Romero@emnrn.nm.gov>; Bisbey-Kuehn, Elizabeth A. <ebisbeykuehn@nmslo.gov>; Barnes, Will <wbarnes@nmslo.gov>; Knight, Tami C. <tknight@nmslo.gov>

Subject: RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

Saskia-

You all need to move a lot faster. We've been waiting on the drilling to be scheduled for months. There are numerous vendors that could perform this work. We need a firm date in the near future. This project will not be allowed to drag out for years, or even another year. Work needs to begin soon and analysis is obviously the first step.

/Ari Biernoff

From: saskia@thestandardenergy.com <saskia@thestandardenergy.com>

Sent: Thursday, December 5, 2024 8:45 AM

To: Biernoff, Ari <abiernoff@nmslo.gov>; 'Hall, Brittany, EMNRD' <Brittany.Hall@emnrn.nm.gov>; 'Ayarbe, John' <jayarbe@geo-logic.com>

Cc: 'Moellenberg, Dalva L.' <dldm@gknet.com>; pieter@thestandardenergy.com; Heltman, Elaine G. <eheltman@nmslo.gov>; Crosby, Faith <fcrosby@nmslo.gov>; 'Smith, Cory, EMNRD' <cory.smith@emnrn.nm.gov>; 'Powell, Brandon, EMNRD' <Brandon.Powell@emnrn.nm.gov>; 'Romero, Rosa, EMNRD' <RosaM.Romero@emnrn.nm.gov>; Bisbey-Kuehn, Elizabeth A. <ebisbeykuehn@nmslo.gov>; Barnes, Will <wbarnes@nmslo.gov>; Knight, Tami C. <tknight@nmslo.gov>

Subject: RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

Hi Ari,

I am sorry, it looks like we might have missed this email from Britany in the Thanksgiving craziness.

We are having bi-weekly meetings with John regarding this project. From our last meeting, it is my understanding that we are just waiting on a date from the driller. We discussed the option of using a backhoe to accelerate the sampling, but decided that we will need to wait for the driller as we ran into some very hard layers that the backhoe couldn't break through when we collected the prior samples that were presented to you all last year.

I will follow up with John today to verify that this is still the status. I believe the holidays have caused some delays in scheduling. I will send a follow up to this email after speaking with John.

Best,
Saskia

From: Biernoff, Ari <abiernoff@nmslo.gov>

Sent: Wednesday, December 4, 2024 5:03 PM

To: Hall, Brittany, EMNRD <Brittany.Hall@emnrn.nm.gov>; Ayarbe, John <jayarbe@geo-logic.com>; saskia@thestandardenergy.com

Cc: Moellenberg, Dalva L. <dldm@gknet.com>; pieter@thestandardenergy.com; Heltman, Elaine G. <eheltman@nmslo.gov>; Crosby, Faith <fcrosby@nmslo.gov>; Smith, Cory, EMNRD <cory.smith@emnrn.nm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@emnrn.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrn.nm.gov>; Bisbey-Kuehn, Elizabeth A. <ebisbeykuehn@nmslo.gov>; Barnes, Will <wbarnes@nmslo.gov>; Knight, Tami C. <tknight@nmslo.gov>

Subject: RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

The lack of communication from Buckeye and its consultants is not going to work. We will have to press our bond claim if we don't get some movement very soon.

From: Biernoff, Ari

Sent: Monday, November 25, 2024 6:34 PM

To: Hall, Brittany, EMNRD <Brittany.Hall@emnrn.nm.gov>; Ayarbe, John <jayarbe@geo-logic.com>; saskia@thestandardenergy.com

Cc: Moellenberg, Dalva L. <dldm@gknet.com>; pieter@thestandardenergy.com; Heltman, Elaine G. <eheltman@nmslo.gov>; Crosby, Faith <fcrosby@nmslo.gov>; Smith, Cory, EMNRD <cory.smith@emnrn.nm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@emnrn.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrn.nm.gov>; Bisbey-Kuehn, Elizabeth A. <ebisbeykuehn@nmslo.gov>; Barnes, Will <wbarnes@nmslo.gov>; Knight, Tami C. <tknight@nmslo.gov>

Subject: RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

Has anyone (John/DBS or Saskia/Buckeye, or counsel) responded to this inquiry? We are concerned that even the preliminary step of conducting drilling and sampling is getting bogged down.

OCDE 15-003

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

Sent: Tuesday, November 19, 2024 7:17 AM

To: Ayarbe, John <jayarbe@geo-logic.com>; saskia@thestandardenergy.com

Cc: Moellenberg, Dalva L. <dlm@gknet.com>; pieter@thestandardenergy.com; Heltman, Elaine G. <eheltman@nmslo.gov>; Crosby, Faith <fcrosby@nmslo.gov>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@emnrd.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrd.nm.gov>; Bisbey-Kuehn, Elizabeth A. <ebisbeykuehn@nmslo.gov>; Barnes, Will <wbarnes@nmslo.gov>; Biernoff, Ari <abiernoff@nmslo.gov>; Knight, Tami C. <tknight@nmslo.gov>

Subject: RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

John,

Has a drill rig been scheduled? OCD is requesting a detail timeframe for the remediation and reclamation of incident numbers [nOY1813152090](#) and [nKL1625134663](#). Reports were due to the OCD on 5/2/2024 and as of today, no C-141s have been submitted for either incident number.

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/>

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

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

From: Biernoff, Ari <abiernoff@nmslo.gov>

Sent: Monday, November 18, 2024 4:35 PM

To: Ayarbe, John <jayarbe@geo-logic.com>; saskia@thestandardenergy.com; Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Knight, Tami C. <tknight@nmslo.gov>

Cc: Moellenberg, Dalva L. <dlm@gknet.com>; pieter@thestandardenergy.com; Heltman, Elaine G. <eheltman@nmslo.gov>; Crosby, Faith <fcrosby@nmslo.gov>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@emnrd.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrd.nm.gov>; Bisbey-Kuehn, Elizabeth A. <ebisbeykuehn@nmslo.gov>; Barnes, Will <wbarnes@nmslo.gov>

Subject: RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

John- please provide us with a time frame for the next step, i.e. drilling and sampling.

From: Ayarbe, John <jayarbe@geo-logic.com>

Sent: Monday, November 18, 2024 3:58 PM

To: saskia@thestandardenergy.com; Biernoff, Ari <abiernoff@nmslo.gov>; 'Hall, Brittany, EMNRD' <Brittany.Hall@emnrd.nm.gov>; Knight, Tami C. <tknight@nmslo.gov>

Cc: 'Moellenberg, Dalva L.' <dlm@gknet.com>; pieter@thestandardenergy.com; Heltman, Elaine G. <eheltman@nmslo.gov>; Crosby, Faith <fcrosby@nmslo.gov>; 'Smith, Cory, EMNRD' <cory.smith@emnrd.nm.gov>; 'Powell, Brandon, EMNRD' <Brandon.Powell@emnrd.nm.gov>; 'Romero, Rosa, EMNRD' <RosaM.Romero@emnrd.nm.gov>; Bisbey-Kuehn, Elizabeth A. <ebisbeykuehn@nmslo.gov>; Barnes, Will <wbarnes@nmslo.gov>

Subject: RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

Hi Ari,

OCD Ex. 15-004

The EM survey was completed on October 8th. We're processing the results and making plans to drill and sample.

Thanks!

John P. Ayarbe

Senior Hydrogeologist

Daniel B. Stephens & Associates, Inc.

a Geo-Logic Company

Direct: (505) 353-9137

Mobile: (505) 280-4339

The contents of this e-mail message, including any attachments, are for the sole use of the intended recipient named above. This email may contain confidential and/or legally privileged information. If you are not the intended recipient of this message, be advised that any dissemination, distribution, or use of the contents of this message is strictly prohibited. If you receive this message in error, please notify the sender by return e-mail and permanently delete all copies of the original e-mail and any attached documentation. Thank you.

From: saskia@thestandardenergy.com <saskia@thestandardenergy.com>

Sent: Tuesday, November 12, 2024 3:43 PM

To: 'Biernoff, Ari' <abiernoff@nmslo.gov>; 'Hall, Brittany, EMNRD' <Brittany.Hall@emnrd.nm.gov>; Ayarbe, John <jayarbe@geo-logic.com>; 'Knight, Tami C.' <tknight@nmslo.gov>

Cc: 'Moellenberg, Dalva L.' <dldm@gknet.com>; pieter@thestandardenergy.com; 'Heltman, Elaine G.' <eheltman@nmslo.gov>; 'Crosby, Faith' <fcrosby@nmslo.gov>; 'Smith, Cory, EMNRD' <cory.smith@emnrd.nm.gov>; 'Powell, Brandon, EMNRD' <Brandon.Powell@emnrd.nm.gov>; 'Romero, Rosa, EMNRD' <RosaM.Romero@emnrd.nm.gov>; 'Bisbey-Kuehn, Elizabeth A.' <ebisbeykuehn@nmslo.gov>; 'Barnes, Will' <wbarnes@nmslo.gov>

Subject: RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

Hi Ari,

John and I have an touch base call tomorrow and we will report back to you afterwards. I just didn't want you to think we didn't see this or were not responding.

Saskia

From: Biernoff, Ari <abiernoff@nmslo.gov>

Sent: Friday, November 8, 2024 2:16 PM

To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Ayarbe, John <jayarbe@geo-logic.com>; Knight, Tami C. <tknight@nmslo.gov>; saskia@thestandardenergy.com

Cc: Moellenberg, Dalva L. <dldm@gknet.com>; pieter@thestandardenergy.com; Heltman, Elaine G. <eheltman@nmslo.gov>; Crosby, Faith <fcrosby@nmslo.gov>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@emnrd.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrd.nm.gov>; Bisbey-Kuehn, Elizabeth A. <ebisbeykuehn@nmslo.gov>; Barnes, Will <wbarnes@nmslo.gov>

Subject: RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

John, can you please provide us an update on what activities, if any, have taken place since this last (Oct. 7) correspondence. /Ari Biernoff

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

Sent: Monday, October 7, 2024 8:46 AM

To: Ayarbe, John <jayarbe@geo-logic.com>; Knight, Tami C. <tknight@nmslo.gov>; Biernoff, Ari <abiernoff@nmslo.gov>; saskia@thestandardenergy.com

Cc: Moellenberg, Dalva L. <dldm@gknet.com>; pieter@thestandardenergy.com; Heltman, Elaine G. <eheltman@nmslo.gov>; Crosby, Faith <fcrosby@nmslo.gov>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@emnrd.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrd.nm.gov>; Bisbey-Kuehn, Elizabeth A.

<ebisbeykuehn@nmslo.gov>; Barnes, Will <wbarnes@nmslo.gov>

Subject: RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

Im sorry. Just reread the email and I see the EM survey is scheduled for tomorrow.

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@emnrn.nm.gov

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

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

From: Ayarbe, John <jayarbe@geo-logic.com>

Sent: Thursday, October 3, 2024 4:18 PM

To: Knight, Tami C. <tknight@nmslo.gov>; Biernoff, Ari <abiernoff@nmslo.gov>; saskia@thestandardenergy.com; Hall, Brittany, EMNRD <Brittany.Hall@emnrn.nm.gov>

Cc: Moellenberg, Dalva L. <dldm@gknet.com>; pieter@thestandardenergy.com; Heltman, Elaine G. <eheltman@nmslo.gov>;

Crosby, Faith <fcrosby@nmslo.gov>; Smith, Cory, EMNRD <cory.smith@emnrn.nm.gov>; Powell, Brandon, EMNRD

<Brandon.Powell@emnrn.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrn.nm.gov>; Bisbey-Kuehn, Elizabeth A.

<ebisbeykuehn@nmslo.gov>; Barnes, Will <wbarnes@nmslo.gov>

Subject: RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

Some people who received this message don't often get email from jayarbe@geo-logic.com. [Learn why this is important](#)
Tami,

We are working with Atkins Engineering. They're conducting the EM survey and will then support the drilling.

Thanks,

John P. Ayarbe

Senior Hydrogeologist

Daniel B. Stephens & Associates, Inc.

a Geo-Logic Company

Direct: (505) 353-9137

Mobile: (505) 280-4339

The contents of this e-mail message, including any attachments, are for the sole use of the intended recipient named above. This email may contain confidential and/or legally privileged information. If you are not the intended recipient of this message, be advised that any dissemination, distribution, or use of the contents of this message is strictly prohibited. If you receive this message in error, please notify the sender by return e-mail and permanently delete all copies of the original e-mail and any attached documentation. Thank you.

From: Knight, Tami C. <tknight@nmslo.gov>

Sent: Thursday, October 3, 2024 11:57 AM

To: Ayarbe, John <jayarbe@geo-logic.com>; Biernoff, Ari <abiernoff@nmslo.gov>; saskia@thestandardenergy.com; 'Hall, Brittany, EMNRD' <Brittany.Hall@emnrn.nm.gov>

Cc: 'Moellenberg, Dalva L.' <dldm@gknet.com>; pieter@thestandardenergy.com; Heltman, Elaine G. <eheltman@nmslo.gov>;

Crosby, Faith <fcrosby@nmslo.gov>; 'Smith, Cory, EMNRD' <cory.smith@emnrn.nm.gov>; 'Powell, Brandon, EMNRD'

<Brandon.Powell@emnrn.nm.gov>; 'Romero, Rosa, EMNRD' <RosaM.Romero@emnrn.nm.gov>; Bisbey-Kuehn, Elizabeth A.

<ebisbeykuehn@nmslo.gov>; Barnes, Will <wbarnes@nmslo.gov>

Subject: RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

John

Please get a drill rig booked so this project can move forward in a more timely manner. I know it is possible to estimate when you will need a rig and then you get on their schedule. What drilling company are you using?

Thank you



Tami C. Knight, CHMM
Environmental Specialist
Environmental Compliance Office
505.670-1638
New Mexico State Land Office



tknight@nmslo.gov
nmstatelands.org



****My email has changed from tknight@slo.state.nm.us to tknight@nmslo.gov, please update your records to reflect the change. Note changes: spills@nmslo.gov and eco@nmslo.gov.****

CONFIDENTIALITY NOTICE - This e-mail transmission, including all documents, files, or previous e-mail messages attached hereto, may contain confidential and/or legally privileged information. If you are not the intended recipient, or a person responsible for delivering it to the intended recipient, you are hereby notified that you must not read this transmission and that any disclosure, copying, printing, distribution, or use of any of the information contained in and/or attached to this transmission is STRICTLY PROHIBITED. If you have received this transmission in error, please immediately notify the sender and delete the original transmission and its attachments without reading or saving in any manner. Thank you.

From: Ayarbe, John <jayarbe@geo-logic.com>

Sent: Thursday, October 3, 2024 11:52 AM

To: Biernoff, Ari <abiernoff@nmslo.gov>; saskia@thestandardenergy.com; 'Hall, Brittany, EMNRD'

<Brittany.Hall@emnrd.nm.gov>

Cc: 'Moellenberg, Dalva L.' <dml@gknet.com>; pieter@thestandardenergy.com; Knight, Tami C. <tknight@nmslo.gov>;

Heltman, Elaine G. <eheltman@nmslo.gov>; Crosby, Faith <fcrosby@nmslo.gov>; 'Smith, Cory, EMNRD'

<cory.smith@emnrd.nm.gov>; 'Powell, Brandon, EMNRD' <Brandon.Powell@emnrd.nm.gov>; 'Romero, Rosa, EMNRD'

<RosaM.Romero@emnrd.nm.gov>; Bisbey-Kuehn, Elizabeth A. <ebisbeykuehn@nmslo.gov>; Barnes, Will

<wbarnes@nmslo.gov>

Subject: RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

Ari,

The EM survey of the site is scheduled for next Tuesday (10/8). The borehole investigation will follow but we don't have a date for the drilling yet. Results of the EM survey will guide how best to drill and sample.

Boone Archaeological Resource Consultants, LLC completed the cultural resource survey in September. There were no findings, and their report was submitted to SLO.

Thanks,

OCD Ex. 15-007

John P. Ayarbe

Senior Hydrogeologist

Daniel B. Stephens & Associates, Inc.

a Geo-Logic Company

Direct: (505) 353-9137

Mobile: (505) 280-4339

The contents of this e-mail message, including any attachments, are for the sole use of the intended recipient named above. This email may contain confidential and/or legally privileged information. If you are not the intended recipient of this message, be advised that any dissemination, distribution, or use of the contents of this message is strictly prohibited. If you receive this message in error, please notify the sender by return e-mail and permanently delete all copies of the original e-mail and any attached documentation. Thank you.

From: Biernoff, Ari <abiernoff@nmslo.gov>

Sent: Wednesday, September 18, 2024 2:19 PM

To: saskia@thestandardenergy.com; 'Hall, Brittany, EMNRD' <Brittany.Hall@emnrd.nm.gov>; Ayarbe, John <jayarbe@geo-logic.com>

Cc: 'Moellenberg, Dalva L.' <dml@gknet.com>; pieter@thestandardenergy.com; Knight, Tami C. <tknight@nmslo.gov>; Heltman, Elaine G. <eheltman@nmslo.gov>; Crosby, Faith <fcrosby@nmslo.gov>; 'Smith, Cory, EMNRD' <cory.smith@emnrd.nm.gov>; 'Powell, Brandon, EMNRD' <Brandon.Powell@emnrd.nm.gov>; 'Romero, Rosa, EMNRD' <RosaM.Romero@emnrd.nm.gov>; Bisbey-Kuehn, Elizabeth A. <ebisbeykuehn@nmslo.gov>; Barnes, Will <wbarnes@nmslo.gov>

Subject: RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

Saskia/Dal et al. –

Please make sure to cc the State Land Office (everyone cc'd on this email) on any communications you have with OCD regarding this site.

/Ari Biernoff

From: saskia@thestandardenergy.com <saskia@thestandardenergy.com>

Sent: Wednesday, September 18, 2024 2:18 PM

To: 'Hall, Brittany, EMNRD' <Brittany.Hall@emnrd.nm.gov>; Biernoff, Ari <abiernoff@nmslo.gov>; 'Ayarbe, John' <jayarbe@geo-logic.com>

Cc: 'Moellenberg, Dalva L.' <dml@gknet.com>; pieter@thestandardenergy.com; Knight, Tami C. <tknight@nmslo.gov>; Heltman, Elaine G. <eheltman@nmslo.gov>; Crosby, Faith <fcrosby@nmslo.gov>; 'Smith, Cory, EMNRD' <cory.smith@emnrd.nm.gov>; 'Powell, Brandon, EMNRD' <Brandon.Powell@emnrd.nm.gov>; 'Romero, Rosa, EMNRD' <RosaM.Romero@emnrd.nm.gov>

Subject: RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

Hi Brittany,

I understand and acknowledge receipt of your email.

We are working on this and making strides. With the urgency and importance of our response I feel that it we need to consult with our legal counsel before sending a formal response. I am trying to get a call schedule for tomorrow morning.

Please know that we understand the importance of pushing forward with this project and we will do anything we can to prevent further delays.

Best,
Saskia

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

Sent: Tuesday, September 17, 2024 10:37 AM

To: Biernoff, Ari <abiernoff@slo.state.nm.us>; Ayarbe, John <jayarbe@geo-logic.com>

Cc: Moellenberg, Dalva L. <dlm@gknet.com>; saskia@thestandardenergy.com; pieter@thestandardenergy.com; tknight <tknight@slo.state.nm.us>; Heltman, Elaine G. <eheltman@slo.state.nm.us>; Crosby, Faith <fcrosby@slo.state.nm.us>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@emnrd.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrd.nm.gov>

Subject: RE: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

John and Buckeye Disposal L.L.C. representatives,

Incident numbers, nOY1813152090 and nKL1625134663, associated with the State AF #003 (30-025-20980) are out of compliance. Both incidents were granted 90-day extension requests on February 1, 2024, to facility Buckeye Disposal's compliance with the New Mexico State Land Office's (SLO) requirements. Site Characterization and Remediation Plans or Remediation Closure Reports were required to be submitted to OCD Permitting no later than May 2, 2024. As of today, September 17, 2024, OCD has not received any submittals for these two incidents.

OCD will not approve any additional extension requests for nOY1813152090 and nKL1625134663. Remediation of these releases must be completed pursuant to 19.15.29 NMAC, including submission of approvable remediation plans, remediation closure reports, reclamation reports, and revegetation reports. OCD will use its enforcement discretion to determine if additional enforcement action is warranted. Cooperation from Buckeye Disposal L.L.C. will be considered when determining any enforcement actions, which may include civil penalties.

Thank you,

Brittany Hall • Environmental Specialist

Environmental Bureau Projects Group

EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87110

505.517.5333 | Brittany.Hall@emnrd.nm.gov

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

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

From: Biernoff, Ari <abiernoff@slo.state.nm.us>

Sent: Thursday, September 5, 2024 4:39 PM

To: Ayarbe, John <jayarbe@geo-logic.com>

Cc: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Moellenberg, Dalva L. <dlm@gknet.com>; saskia@thestandardenergy.com; pieter@thestandardenergy.com; tknight <tknight@slo.state.nm.us>; Heltman, Elaine G. <eheltman@slo.state.nm.us>; Crosby, Faith <fcrosby@slo.state.nm.us>

Subject: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

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

OK, John. My understanding is that it took Buckeye and/or DBS a month to sign and mail back the ROE permit. Let us know how we can help to keep this process moving. We'll await further updates.

/Ari

From: Ayarbe, John <jayarbe@geo-logic.com>

Sent: Thursday, September 5, 2024 3:46 PM

To: Biernoff, Ari <abiernoff@slo.state.nm.us>

Cc: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Dalva Moellenberg <DLM@gknet.com>;

saskia@thestandardenergy.com; pieter@thestandardenergy.com; Knight, Tami C. <tknight@slo.state.nm.us>; Heltman, Elaine

G. <eheltman@slo.state.nm.us>; Crosby, Faith <fcrosby@slo.state.nm.us>
Subject: [EXTERNAL] RE: Buckeye State AF #003 SWD, Site Assessment Plan

Ari,

I received the Right-of-Entry permit yesterday. I'm coordinating the cultural resource evaluation now. I'll let you know when the cultural resource evaluation is complete and we have the field work scheduled.

Thanks,

John P. Ayarbe
Senior Hydrogeologist

Daniel B. Stephens & Associates, Inc.
a Geo-Logic Company
Direct: (505) 353-9137
Mobile: (505) 280-4339

The contents of this e-mail message, including any attachments, are for the sole use of the intended recipient named above. This email may contain confidential and/or legally privileged information. If you are not the intended recipient of this message, be advised that any dissemination, distribution, or use of the contents of this message is strictly prohibited. If you receive this message in error, please notify the sender by return e-mail and permanently delete all copies of the original e-mail and any attached documentation. Thank you.

From: Biernoff, Ari <abiernoff@slo.state.nm.us>
Sent: Wednesday, September 4, 2024 7:01 PM
To: Ayarbe, John <jayarbe@geo-logic.com>
Cc: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Dalva Moellenberg <DLM@gknet.com>; saskia@thestandardenergy.com; pieter@thestandardenergy.com; Knight, Tami C. <tknight@slo.state.nm.us>; Heltman, Elaine G. <eheltman@slo.state.nm.us>; Crosby, Faith <fcrosby@slo.state.nm.us>
Subject: RE: Buckeye State AF #003 SWD, Site Assessment Plan

John, can you please give us an update on sampling activities. /Ari Biernoff

From: Biernoff, Ari
Sent: Tuesday, July 16, 2024 10:34 AM
To: Ayarbe, John <jayarbe@geo-logic.com>
Cc: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Dalva Moellenberg <DLM@gknet.com>; saskia@thestandardenergy.com; pieter@thestandardenergy.com; Knight, Tami C. <tknight@slo.state.nm.us>; Heltman, Elaine G. <eheltman@slo.state.nm.us>; Crosby, Faith <fcrosby@slo.state.nm.us>
Subject: RE: Buckeye State AF #003 SWD, Site Assessment Plan

Thanks for the update.

From: Ayarbe, John <jayarbe@geo-logic.com>
Sent: Tuesday, July 16, 2024 10:33 AM
To: Biernoff, Ari <abiernoff@slo.state.nm.us>
Cc: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; Dalva Moellenberg <DLM@gknet.com>; saskia@thestandardenergy.com; pieter@thestandardenergy.com; Knight, Tami C. <tknight@slo.state.nm.us>; Heltman, Elaine G. <eheltman@slo.state.nm.us>; Crosby, Faith <fcrosby@slo.state.nm.us>
Subject: [EXTERNAL] Re: Buckeye State AF #003 SWD, Site Assessment Plan

Ari,

Field activities have not started. We submitted our Right-of-Entry application and fees to SLO yesterday. We are also working on the cultural clearance.

OCD Ex. 15-010

Thanks!
John

Sent from my iPhone

On Jul 16, 2024, at 9:33 AM, Biernoff, Ari <abiernoff@slo.state.nm.us> wrote:

John, has delineation started yet? /Ari Biernoff

From: Biernoff, Ari
Sent: Friday, June 28, 2024 8:25 AM
To: Ayarbe, John <jayarbe@geo-logic.com>
Cc: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; 'Dalva Moellenberg' <DLM@gknet.com>; saskia@thestandardenergy.com; pieter@thestandardenergy.com; Knight, Tami C. <tknight@slo.state.nm.us>; Heltman, Elaine G. <eheltman@slo.state.nm.us>; Crosby, Faith <fcrosby@slo.state.nm.us>
Subject: RE: Buckeye State AF #003 SWD, Site Assessment Plan

John, thanks for addressing our question/comment. We are ready to see DBS/Buckeye proceed with the delineation along the lines we discussed at our meeting last week and memorialized in your letter from yesterday. /Ari Biernoff

From: Ayarbe, John <jayarbe@geo-logic.com>
Sent: Thursday, June 27, 2024 6:22 PM
To: Biernoff, Ari <abiernoff@slo.state.nm.us>; Knight, Tami C. <tknight@slo.state.nm.us>
Cc: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>; 'Dalva Moellenberg' <DLM@gknet.com>; saskia@thestandardenergy.com; pieter@thestandardenergy.com
Subject: [EXTERNAL] Buckeye State AF #003 SWD, Site Assessment Plan

Hi Ari and Tami,

Attached is our final version of the letter regarding the conditions of approval for the site assessment plan and our understanding from last week's meeting and subsequent emails.

We're still working to find information showing the Vanguard line.

Thanks!

John P. Ayarbe
Senior Hydrogeologist

Daniel B. Stephens & Associates, Inc.
a Geo-Logic Company
6020 Academy Road NE, Suite 100
Albuquerque, New Mexico 87109
Office: (505) 822-9400 | Direct: (505) 353-9137
Mobile: (505) 280-4339
jayarbe@dbstephens.com or jayarbe@geo-logic.com

www.dbstephens.com | www.geo-logic.com

The contents of this e-mail message, including any attachments, are for the sole use of the intended recipient named above. This email may contain confidential and/or legally privileged information. If you are not the intended recipient of this message, be advised that any

dissemination, distribution, or use of the contents of this message is strictly prohibited. If you receive this message in error, please notify the sender by return e-mail and permanently delete all copies of the original e-mail and any attached documentation. Thank you.

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.



Virus-free. www.avg.com

RE: [EXTERNAL] EM survey results, Buckeye State AF #003 site

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

Date Wed 1/8/2025 7:29 AM

To Ayarbe, John <jayarbe@geo-logic.com>; 'Biernoff, Ari' <abiernoff@nmslo.gov>

Cc saskia@thestandardenergy.com <saskia@thestandardenergy.com>; pieter@thestandardenergy.com <pieter@thestandardenergy.com>; Moellenberg, Dalva L. <d1m@gknet.com>; 'Knight, Tami C.' <tknight@nmslo.gov>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrd.nm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@emnrd.nm.gov>

Bcc Moander, Chris, EMNRD <Chris.Moander@emnrd.nm.gov>; Tremaine, Jesse, EMNRD <JesseK.Tremaine@emnrd.nm.gov>

1 attachment (1 MB)

AF_Excavation Overview.pdf;

John,

Thank you for the information. As Buckeye Disposal, L.L.C. (222759) has not met previous conditions stipulated by the OCD, Buckeye Disposal and these incidents are now under a compliance review.

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/>

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

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

From: Ayarbe, John <jayarbe@geo-logic.com>

Sent: Tuesday, January 7, 2025 2:36 PM

To: 'Biernoff, Ari' <abiernoff@nmslo.gov>

Cc: saskia@thestandardenergy.com; pieter@thestandardenergy.com; Moellenberg, Dalva L. <d1m@gknet.com>; 'Knight, Tami C.' <tknight@nmslo.gov>; Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>

Subject: [EXTERNAL] EM survey results, Buckeye State AF #003 site

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

Hi Ari,

Attached is a figure summarizing the EM survey results at the Buckeye State AF #003 site. We used linear regression to provide a preliminary estimate of areas exceeding 600-mg/kg chloride and to delineate potential excavation areas. The linear

regression uses soil chloride data from the December 2023 soil sampling. Please note: there are a few areas with elevated TPH that are not addressed on the attached figure and that actual excavation areas will likely be more square and rectangle.

The EM survey was conducted in October 2023. We contracted Atkins Engineering to complete the survey. They also captured an aerial photograph of the site with a drone. The aerial is shown in the attached figure.

The EM survey was completed using both an EM31 and EM38, and by varying coil spacing and orientation so that we could image different depths. These data are in the GIS we used to prepare the attached figure. We're going to place the raw data on separate maps and send them to you in a separate email (hopefully later today or tomorrow).

We've obtained a quote from Atkins Engineering to complete the borehole investigation. I've considered modifying the borehole investigation work some based on the EM survey results but need to discuss it more with Buckeye. We'll obtain SLO approval before moving forward with any changes.

Thanks!

John P. Ayarbe

Senior Hydrogeologist

Daniel B. Stephens & Associates, Inc.

a Geo-Logic Company

6020 Academy Road NE, Suite 100

Albuquerque, New Mexico 87109

Office: (505) 822-9400 | Direct: (505) 353-9137

Mobile: (505) 280-4339

jayarbe@dbstephens.com or jayarbe@geo-logic.com

www.dbstephens.com | www.geo-logic.com

The contents of this e-mail message, including any attachments, are for the sole use of the intended recipient named above. This email may contain confidential and/or legally privileged information. If you are not the intended recipient of this message, be advised that any dissemination, distribution, or use of the contents of this message is strictly prohibited. If you receive this message in error, please notify the sender by return e-mail and permanently delete all copies of the original e-mail and any attached documentation. Thank you.

**PRELIMINARY SUBJECT TO REVISION
PRIVILEGED AND CONFIDENTIAL**



Source: USDA NAIP (2022) and Atkins Engineering (2024)

Explanation

- Borehole ID
- ▲ Cl⁻ (mg/l) 2-ft
- ▲ Cl⁻ (mg/l) 4-ft
- ▲ December 2023 soil sample location
- ⊕ Proposed soil sample location
- Geophysical survey area
- Predicted 4-ft excavation area
- Predicted 2-ft excavation area
- Detected metal pipeline (dashed where inferred)
- Repaired pipeline (dashed where inferred)

Notes:

1. Estimated area requiring 2-ft excavation derived from EM38 0.5-m vertical dipole data.
2. Estimated area requiring 4-ft excavation derived from EM38 1-m vertical dipole data.
3. Geophysical data related to December 2023 soil sample results using linear regression.

**BUCKEYE STATE AF #003
Areas Expected to Exceed 600-mg/kg Chloride
Based on Geophysical Survey Results**

Figure #

Proposed Remediation Plan

State AF #003 SWD Site

Prepared for
Buckeye Disposal, Inc.

Prepared by



6501 Americas Parkway NE, Suite 200
Albuquerque, New Mexico 87110
www.dbstephens.com
DB19.1241

April 11, 2025

Table of Contents

1.	Introduction	1
2.	Site Resources	2
2.1	Biology	2
2.2	Cultural Resources.....	2
2.3	Soil.....	3
2.4	Water	3
3.	Releases and Initial Soil Characterization	4
4.	Additional Characterization Activities	4
4.1	December 2023 Soil Sampling	5
4.2	Site Assessment Plan Implementation	7
4.2.1	October 2024 Electromagnetic (EM) Survey	7
4.2.2	January 2025 Soil Sampling	8
5.	Proposed Remediation and Reclamation Plan	11
5.1	Approach	11
5.1.1	Vertical Delineation	12
5.1.2	Soil Removal.....	12
5.1.3	Field Screening and Confirmation Soil Sampling	13
5.1.4	Soil Replacement, Grading, and Revegetation.....	14
5.2	Schedule.....	15
5.3	Monitoring	16
	References.....	16

List of Figures

- 1 Shallow Water Sources within ½ mile of Site
- 2 Initial Soil Sampling Results, February 2019
- 3a Soil Chloride Results, Pad of Former Salt Water Disposal Well, December 2023
- 3b Soil Chloride Results, Former Tank Battery Location, December 2023
- 4a Soil TPH Results, Pad of Former Salt Water Disposal Well, December 2023
- 4b Soil TPH Results, Former Tank Battery Location, December 2023
- 5a Geophysical Survey Results, EM31 Vertical Dipole
- 5b Geophysical Survey Results, EM38 Vertical Dipole (0.5-meter Coil)
- 5c Geophysical Survey Results, EM38 Vertical Dipole (1-meter Coil)
- 6 New Mexico State Land Office Leases and Various Operator Pipelines
- 7 Estimated Extents of Proposed Excavation Areas
- 8 Linear Regression of Field EC_{1.5} vs. Soil Chloride Concentration

List of Tables

- 1 Soil Sample Analytical Results, December 2023
- 2 Soil Sample Analytical Results, January 2025

List of Appendices

- A Record of State AF #003 SWD Plugging and Abandonment
- B Boone (2024) NMSLO Cultural Resources Cover Sheet
- C L02350 Well Log
- D Proximity to Surface Water Features, New Mexico OCD Oil and Gas Map
- E Release Notification Forms (C-141)
- F Analytical Laboratory Reports
- G DBS&A Historical Aerial Photograph Review

1. Introduction

On behalf of Buckeye Disposal, Inc. (Buckeye), Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this proposed remediation plan for the State AF #003 SWD site (the site) located on State of New Mexico Business Lease BL-2050 in Section 8, Township 18 South, Range 35 East, NMPM. This is a revised remediation plan that aims to address New Mexico State Land Office (NMSLO) (NMSLO, 2025) and Oil Conservation Division (OCD) (OCD, 2025) comments regarding the original submittal (DBS&A, 2025). Until recently, Buckeye operated a salt water disposal well at the site. Since ceasing disposal well operations, Buckeye has plugged and abandoned the disposal well and has removed the tank battery. The salt water disposal well was plugged and abandoned in April 2023 (Appendix A). Buckeye has also removed the tank battery, including the 40-mil high-density polyethylene (HDPE) flexible membrane liner of the secondary containment, from the site.

On May 17, 2024, DBS&A submitted an Updated Site Assessment Plan (updated SAP) for the site to the New Mexico State Land Office (NMSLO). Brittany Hall of the Oil Conservation Division (OCD) was carbon copied on the submission. Submission of the updated SAP also included DBS&A responses to NMSLO comments on a previous version of the site assessment plan. The updated SAP described investigation activities to delineate the lateral and vertical extents of brine impacts to soil at the site, including several peripheral areas (DBS&A, 2024). Investigation activities included a non-invasive electromagnetic survey and soil sampling. Atkins Engineering Associates, Inc. (Atkins), a subcontractor to DBS&A, completed the electromagnetic survey in October 2024. DBS&A, with support from Buckeye, collected soil samples in January 2025. The electromagnetic survey was completed in accordance with the updated SAP (DBS&A, 2024). The soil samples were collected from two exploratory excavations advanced in the areas of highest soil salinity as indicated by results of the electromagnetic survey: (1) near the former location of the salt water disposal well, and (2) former location of the lined tank battery. Results of the October 2024 electromagnetic survey and January 2025 soil sampling provide sufficient data to initiate remediation at the site, with the understanding that confirmation soil samples will need to be collected and analyzed during remediation to define excavation extents.

Basic information regarding the site is as follows:

- Operator: Buckeye Disposal, Inc. (Buckeye)
- Consultant information: John Ayarbe (DBS&A), (505) 822-9400, jayarbe@geo-logic.com

- Site name: State AF #003 SWD
- API number: 30-025-20980
- State Land Office lease numbers: SW-324 and BL-2050
- OCD incident numbers: NOY1813152090 and NKL1625134663
- Public Land Survey System (PLSS) location: Section 8, Township 18 South, Range 35 East, NMPM
- County: Lea County
- Latitude and longitude: 32°45'37.23"N, 103°29'7.03"W

Buckeye's operational footprint at the site generally consisted of the State AF #003 SWD well pad, former tank battery pad, and the access road connecting them. Buckeye also maintained a pipeline that ran north from the tank battery to the SWD well. There are several other pipelines and facilities (both active and historical) in the vicinity of Buckeye's operational footprint.

This remediation plan is intended to satisfy the requirements of NMSLO and OCD, as stipulated in the NMSLO reclamation rules, SW-324, and Section 13 of 19.15.29 NMAC. It presents background information (Sections 2 and 3), describes characterization activities used to define the lateral and vertical extents of impacts to soil (Section 4), and provides a proposed remediation plan (Section 5). Some of the information presented herein was previously reported in the updated SAP (DBS&A, 2024), including the background descriptions in Sections 2 and 3 and characterization activities summarized in Section 4.1.

2. Site Resources

2.1 Biology

The site is located in the arid Llano Estacado ecoregion. This region hosts a native shortgrass prairie of grama and buffalo grasses. Species such as mesquite and lotebrush are able to establish where native grasses are disturbed (Griffith et al., 2006; Johnson, 2007).

2.2 Cultural Resources

Boone Archeological Resource Consultants, LLC (Boone) conducted a Class III Cultural Resource Survey at the site on behalf of Buckeye (Boone, 2024). The survey was performed in support of the proposed remediation activities. No cultural resources were discovered, and the

archaeological survey findings are deemed negative. Appendix B provides the cover sheet to The Boone report to show compliance with the NMSLO cultural properties protection rule.

2.3 Soil

The Natural Resources Conservation Service (NRCS) map unit for the site is Kimbrough-Lea complex, which NRCS describes as a calcareous, loamy eolian deposit of Pleistocene age overlying indurated caliche of Pliocene age NRCS (2024). Crushed caliche has been placed on the areas of the former locations of the well pad and tank battery, as well as the access road that connects the two locations, giving each area a white appearance. Surface soils of the surrounding undisturbed, vegetated areas consist of eolian sand, consistent with the NRCS description for the region.

2.4 Water

Information available online from the New Mexico Office of the State Engineer (OSE) indicates that the depth to shallow groundwater at the well closest to the site (well L02350) is greater than 100 feet below ground surface (bgs) (Figure 1). Well L02350 is north-northeast of the former location of the tank battery (Figure 1). The well log indicates that the boring for the well was drilled to a total depth of 216 feet bgs in March 1960, and that the boring penetrated a water-bearing zone at 110 feet bgs (Appendix C). The well is currently owned by Intrepid Potash, New Mexico, LLC (Intrepid), is referred to as Intrepid Potash North Well N-4, and is permitted for industrial use. On February 20, 2020, DBS&A contacted Intrepid's East Plant regarding the status of the well and the water level at the well. They reported that the current water level in the well is 115 feet bgs. Based on this information, depth to groundwater at the site is greater than 100 feet bgs.

Appendix D is a map showing the proximity of significant surface water features to the site. It was created using the New Mexico OCD Oil and Gas Map (NM OCD, 2024). The nearest surface water feature to the site is an unnamed drainage approximately 1,900 feet southwest of the former location of the salt water disposal well and approximately 1,000 feet southwest of the former location of the tank battery. A depression is located approximately 390 feet southeast of the former location of the tank battery. The depression is shown as a freshwater pond (PUBF) in the U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory online map (USFWS, 2024). The depression is not a perennial pond, but rather an ephemeral surface water feature.

3. Releases and Initial Soil Characterization

Two releases occurred within the former tank battery secondary containment, which was lined with a 40-mil HDPE flexible membrane. They occurred on August 20, 2016 and May 4, 2018. Buckeye submitted release notification forms (Form C-141) to OCD for these releases (Appendix E). In response to the notifications, OCD assigned remediation permit 1RP-4429 on September 7, 2016 and remediation permit 1RP-5056 on May 11, 2018.

On February 14, 2019, soil samples were collected from seven locations around the perimeter of the tank battery secondary containment, as shown in Figure 2. Samples were collected from depths up to 36 inches using a backhoe. The samples were submitted to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico and analyzed for chloride. Sample results are provided in Figure 2. The Cardinal laboratory report is provided in Appendix F.

In June 2020, a third release occurred near the tank battery from a pipeline operated by Vanguard Natural Resources (Vanguard). The pipeline conveyed produced water to the tank battery for disposal at the salt water disposal well. Buckeye estimates that approximately 50 to 100 barrels of produced water was spilled outside of the tank battery secondary containment. The release occurred on the upstream side of a valve connecting Vanguard's pipeline to the tank battery. Buckeye advised Vanguard of the release from its pipeline and requested that Vanguard take appropriate action regarding the release. Buckeye also verbally notified OCD of the release, but expected that it was Vanguard's responsibility to complete and submit a C-141 Release Notification Form, as Vanguard was the pipeline operator and was responsible for the pipeline; however, Buckeye does not have documentation that Vanguard reported the release to OCD. Because this release occurred outside of the secondary containment, it is likely to have had a more significant impact on soils of the tank battery pad than the two reported releases within the secondary containment.

4. Additional Characterization Activities

Buckeye and DBS&A have completed additional characterization activities at the site since the initial soil sampling was conducted on February 14, 2019. Characterization activities have been expanded to include the pad for the former salt water disposal well and general vicinity of the site. Characterization activities were expanded to support site closure.

4.1 December 2023 Soil Sampling

On December 1, 2023, Buckeye collected additional soil samples from the site. The samples were collected at the pad where the salt water disposal well was located, at the former location of the tank battery, and along the small drainage that runs to the south from the former location of the tank battery. A total of 17 locations were investigated. Samples were collected at depths of 2 and 4 feet. Samples could not be collected at 4 feet at all locations due the presence of well indurated caliche. The samples were collected with a shovel.

The soil samples were submitted to Cardinal, where they were analyzed for the following constituents, in accordance with Table 1 of 19.15.29.12 NMAC:

- Chloride using Standard method (SM) 4500-Cl-B
- Total petroleum hydrocarbons (TPH) using U.S. Environmental Protection Agency (EPA) method 8015B
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA method SW-846 8021B

The Cardinal laboratory report is provided in Appendix F, and the analytical results are summarized in Table 1. Figures 3a through 4b show the distributions of soil chloride and TPH based on the analytical results. BTEX constituents were not detected (at detection limits of 0.05 or 0.15 milligrams per kilogram [mg/kg] for each constituent) in the soil samples, and are therefore not mapped. OCD (2025) states that they do not accept the results of the December 2023 soil sampling because the results were qualified by Cardinal due to the presence of headspace in sample containers. OCD (2025) contends that the results may be biased low. It is unlikely that the headspace had significant effect on the results that warrants excluding them from use. The December 2023 sampling results are used herein with other data (e.g., January 2024 soils data) to preliminarily define the extents of soil impacts in support of soil removal. Field screening and confirmation soil sampling will ultimately be used to direct soil removal. Field scientist overseeing soil removal activities will be mindful when preparing confirmation soil samples to avoid or limit headspace.

Chloride concentrations of the soil samples range from 32 mg/kg (AF10 at 2 feet) to 5,840 mg/kg (AF01 at 2 feet). The highest chloride concentration was measured in one of the soil samples collected at the former tank battery location (Figure 3b). TPH concentrations of the soil samples range from non-detect (at a detection limit of 10.0 mg/kg) at a majority of the sample locations to 2,389.6 mg/kg (AF03 at 2 feet). Like for chloride, the highest TPH

concentration was measured in one of the soil samples collected at the former tank battery location (Figure 4b).

Results for 11 of the 23 soil samples exceed the most stringent OCD numerical limit for chloride (600 mg/kg), while results for 4 of the 23 soil samples exceed the most stringent OCD numerical limit for TPH (Table 1). Application of the most stringent OCD numerical limits is based on the proximity of the Intrepid North Well N-4 (OSE number L02350) to the site (Section 2). However, based solely on depth to groundwater, the OCD numerical limits for chloride and TPH are considerably higher, at 20,000 mg/kg and 2,500 mg/kg, respectively. The chloride and TPH concentrations of the soil samples collected at the site in December 2023 are all well below these higher OCD numerical limits.

Soil chloride and TPH concentration distributions correlate with the appearance of site soils. Figures 3a and 4a show the area around the pad of the former salt water disposal well. Soils that are disturbed are white to light tan in color, while undisturbed soils are browner and support vegetation. Sample sites in the disturbed area have chloride concentrations ranging from 640 mg/kg (AF17 at 4 feet) to 3,040 mg/kg (AF16 at 2 feet). TPH concentrations of the disturbed area range from non-detect (AF12 at 2 feet, AF16 at both depths, and AF17 at 2 feet) to 454 mg/kg (AF12 at 4 feet). In undisturbed areas, chloride concentrations range from 96 mg/kg (AF13 at 2 feet) to 496 mg/kg (AF14 at 4 feet), and TPH was not detected.

Figures 3b and 4b show the area around the former tank battery location. Sample sites in the disturbed area have chloride concentrations ranging from 160 mg/kg (AF05 at 2 feet) to 5,840 mg/kg (AF01 at 2 feet) and TPH concentrations ranging from non-detect (AF05, AF06, AF07, and AF08 at 2 feet) to 2,389.6 mg/kg (AF03 at 2 feet). Chloride concentrations in soil in the undisturbed area range from 32 mg/kg (AF10 at 2 feet) to 368 mg/kg (AF02 at 2 feet). Results for TPH in this area are all non-detect.

Soil sample locations AF09 and AF10 were selected near the depression located southeast of the former tank battery location to investigate whether stormwater runoff from the area of the tank battery has impacted soils of the depression. The sample locations were selected where stormwater runoff enters the depression. Chloride concentrations at AF09 and AF10 were 48 and 32 mg/kg, respectively (Figure 3b). TPH was not detected (Figure 4b). These results show that runoff from the site has not affected soils of the depression.

4.2 Site Assessment Plan Implementation

Based on results of the December 2023 soil sampling and at the requests of OCD and NMSLO, Buckeye further characterized impacts to soil in the areas of the former salt water disposal well pad and former tank battery location, as well as the access road that connects them. Proposed characterization activities were described in a Site Assessment Plan, and consisted of a soil salinity surface geophysical survey (Section 4.2.1) and soil sampling (Section 4.2.2) (DBS&A, 2024). The purpose of these characterization activities was to better define the lateral and vertical extents of impacts to soil in support of development of a remediation plan to restore the site to a condition similar to that before Buckeye's lease.

4.2.1 October 2024 Electromagnetic (EM) Survey

On October 8, 2024, Atkins conducted an electromagnetic (EM) geophysical survey and collected drone based aerial photography at the site under the direction of DBS&A. The geophysical survey was completed using two Geonics Limited instruments: (1) an EM31 and (2) an EM38-MK2. Both instruments measure apparent soil electrical conductivity (EC_A), a measure of soil salinity, and soil magnetic susceptibility using electromagnetic induction. The EM31 and EM38-MK2 feature different coil lengths, which allowed for a variety of depths to be investigated. The EM31 has a 12-foot coil that provides an investigation depth of approximately 20 feet when operated in the vertical dipole orientation. The EM38-MK2 has 0.5-meter and 1.0-meter coils. These coils provide investigation depths of approximately 2.5 and 4.9 feet, respectively, when operated in the vertical dipole orientation. The EM geophysical survey was conducted by carrying each instrument across the site at regular intervals to provide coverage of the entire site. The density of measurements and survey extent were determined from real-time readings from the instruments. The readings informed the operator of areas of high soil conductivity, which were given more detailed delineation. A high-precision global positioning system (GPS) unit was paired with the EM instruments to provide location information for the EM readings.

Atkins provided the EM survey data to DBS&A for processing. DBS&A processed the data to create soil conductivity maps for each depth of investigation provided by the two instruments and different coil lengths (i.e., 2.5, 4.9, and 20 feet). Data processing included removing data skewed by magnetic inference caused by metallic objects in the field, such as pipelines and vehicles, which are identifiable by elevated magnetic susceptibility readings. A correction scalar was applied to data from the EM38-MK2 0.5-meter coil to adjust baseline readings to zero. This

calibration step is routine for the 0.5-meter coil on this particular instrument. The data were then interpolated by kriging using R statistical computing software with the gstat package.

The interpolated EM survey were matched to the locations of the December 2023 soil sample points to provide a relationship between EC_A (as measured by the EM instruments) to soil chloride concentration (as measured by Cardinal). DBS&A used linear regression to determine the EC_A values from the EM38-MK2 instrument that equate to a soil chloride concentration of 600 mg/kg. This was done for data from both the 0.5-meter and 1.0-meter coils to identify areas expected to exceed soil chloride concentrations of 600 mg/kg at depths of up to 2 and 4 feet, respectively. Chloride data are not available at deeper depths consistent with the EM31 depth of investigation; therefore, DBS&A did not attempt to relate EC_A readings of this instrument to soil chloride concentration. Notably, the EM31 had much lower EC_A readings across the site than the EM38-MK2, indicating that salinity is lower at depth than near land surface (Figure 5a).

Results from the EM38-MK2 with the 0.5-meter and 1.0-meter coils are shown in Figures 5b and 5c, respectively. Areas predicted to have soil chloride concentrations greater than 600 mg/kg to 2-foot and 4-foot depths are shown in the figures. In general, the predicted areas agree with results from the December 2023 soil sampling. The predictions appear to overestimate some areas, as evidenced by the fact that they include some well vegetated soil. The EM geophysical survey shows regions of high EC_A at the former locations of the State AF #003 SWD well and tank battery (Figure 5b and 5c). Other areas with high EC_A are also present, such as (1) the area of a suspected reserve pit north of the State AF #003 SWD well, (2) the area of a possible pipeline release located between the former salt water disposal well and tank battery, (3) the east end of the former tank battery pad, where a pipeline exist, and (4) the depression to the south of the former tank battery pad. The access road does not show elevated EC_A , indicating that it is not impacted.

4.2.2 January 2025 Soil Sampling

On January 28, 2025, DBS&A's contractor CMB Environmental LLC (CMB) collected soil samples from two exploratory excavations advanced at the site. The exploratory excavations were placed near the former salt water disposal well and at the former tank battery location, in areas with the highest EC_A values and where Buckeye operated (Figures 5a through 5c). Other areas with high EC_A were not investigated further because they were likely impacted by other operators. For instance, pipelines are present at the east end of the former tank battery pad and in the bare area between the former salt water disposal well and tank battery. These pipelines are owned

and operated by others. The interpolated EM geophysical surveys show separation between areas operated by Buckeye and these other areas with high EC_A , including the depression south of the former tank battery location (Figures 5b and 5c). Because the soil sampling was limited to the two indicated areas, the investigation herein differs from that presented in the Site Assessment Plan (DBS&A, 2024).

The exploratory excavations were advanced with a trackhoe and soil samples were collected from the trackhoe bucket. Buckeye provided and operated the trackhoe. Soil samples were collected at 2-foot intervals until refusal was reached, which was 6 feet at the former salt water disposal well pad and 8 feet at the former tank battery location. The purpose of the soil sampling was to define the vertical extents of impacts to soil in the areas where Buckeye operated.

Soil sampled from each 2-foot interval was homogenized in a clean container and then split for field electrical conductance ($EC_{1.5}$) screening and laboratory analyses. Field $EC_{1.5}$ screenings were performed on soil-water mixtures (i.e., paste) consisting of 1 part soil to 5 parts distilled water by volume, and included measurement of specific conductance (EC readings normalized to 25°C). A total of seven soil samples were submitted to Cardinal and analyzed for the following:

- Chloride using SM 4500-Cl-B
- TPH, including gasoline-range organics (GRO) (C8-C10), diesel-range organics (DRO) (>C10-C28), and motor oil-range organics (MRO) (>C28-C36) using EPA method 8015 modified
- BTEX using EPA method SW-846 8021B

The Cardinal laboratory report is provided in Appendix F; results are summarized in Table 2.

The exploratory excavation at the former salt water disposal well pad was placed near the former State AF #003 SWD well (Figures 5a through 5c). The excavation was advanced to a depth of approximately 6 feet, where well-indurated caliche was encountered. A tooth from the trackhoe bucket was broken in an attempt to excavate beyond the caliche. The unconsolidated material above the caliche consisted of odorless, well-sorted, medium-grained red sand. A summary of field EC screening and laboratory results follows:

- Field $EC_{1.5}$ ranged from 1,235 microsiemens per centimeter ($\mu S/cm$) (at 4 to 6 feet) to 2,559 $\mu S/cm$ (at 0 to 2 feet).

- Chloride concentrations ranged from 1,800 mg/kg (at 4 to 6 feet) to 3,200 mg/kg (at 0 to 2 feet).
- TPH and BTEX constituents were not detected in any of samples at detection limits of 10.0 mg/kg and 0.150 mg/kg, respectively.

The exploratory excavation at the former tank battery was placed where the HDPE liner once existed (Figures 5a and 5c). Several excavations were attempted before the trackhoe was able to penetrate beyond 2 feet. The final excavation was advanced to a depth of approximately 8 feet, where refusal was reached. Excavated material consisted of well-sorted, medium-grained tan to brown sand. Petroleum odor and staining were not observed. A summary of field EC screening and laboratory results follows:

- Field $EC_{1:5}$ ranged 600 $\mu\text{S}/\text{cm}$ (at 4 to 6 feet) to 2,628 $\mu\text{S}/\text{cm}$ (at 0 to 2 feet).
- Chloride concentrations ranged from 688 mg/kg (at 4 to 6 feet) to 4,400 mg/kg (at 0 to 2 feet).
- TPH concentrations ranged from 3,859 mg/kg (at 6 to 8 feet) to 13,968 mg/kg (at 4 to 6 feet).
- BTEX constituents were not detected in any of samples at detection limits of 0.150 mg/kg.

At both exploratory excavations, soil chloride concentrations exceeded 600 mg/kg (the most stringent OCD numerical limit for chloride) at the deepest depths investigated (i.e., 6 feet at the former salt water disposal well pad and 8 feet at the former tank battery location). Soil TPH concentrations at the former tank battery location also exceeds the most stringent OCD numerical limit for TPH (100 mg/kg).

Soil samples were collected from fewer locations than proposed in the Site Assessment Plan (DBS&A, 2024) because information obtained from the October 2024 EM geophysical survey is sufficient to define the lateral extents of impacts to soil to initiate remediation, with the understanding that confirmation soil samples will need to be collected and submitted to a laboratory. Field screening ($EC_{1:5}$) and confirmation soil sampling will ultimately be used to define excavation limits. Soil samples were collected from the two exploratory excavations to assess the vertical extents of impacts to soil. The January 2024 investigation was limited to areas operated by Buckeye because the interpolated EM geophysical survey results show separation between areas operated by Buckeye and the other areas with high EC_A (Figures 5b and 5c). It is reasonable to conclude that the other areas have been impacted by other operators, especially

given the presence of several pipelines at the site. Figure 6 shows NMSLO leases in the vicinity of the site and locations of readily identifiable pipelines. These are not Buckeye pipelines; they are operated by other companies.

5. Proposed Remediation and Reclamation Plan

Buckeye will remediate the impacted areas at the former salt water disposal well pad and the former tank battery location. They will excavate impacted soil from a depth of up to 5 feet and replace it with clean fill. Regions where soil impacts exist to depths of at least 4 feet will have impacted soil removed to 5 feet to allow the placement of 0.5 to 1 foot of low-permeability clay at the base of excavations and at least 4 feet of clean top soil above the clay to support vegetation. This approach ensures a root zone with at least 4 feet of clean soil, while also limiting infiltration of water through deeper horizons, thereby significantly reducing the mobilization potential of contaminants at deeper depths and protecting groundwater quality. The approach also limits excavation depths to provide a safer working environment by reducing engulfing potential. The remediated areas will be graded and seeded to restore them pursuant to 19.15.29.13 NMAC (OCD requirements) and SW-324 (NMSLO requirements). Where OCD and NMSLO requirements differ, NMSLO reclamation requirements will apply. For instance, Buckeye plans to achieve a native plant cover and diversity equal to or exceeding the natural levels in undisturbed soils adjacent to the site (NMSLO requirement). The OCD requirement for establishment of vegetation success is a uniform vegetative cover with a lifeform ratio of ± 50 percent of pre-disturbance levels and a total percent plant cover of at least 70 percent of pre-disturbance levels, excluding noxious weeds. The anticipated excavation areas are shown in Figure 7, along with the areas predicted to have greater than 600 mg/kg soil chloride concentrations to 2-foot and 4-foot depths based on the EM geophysical survey.

Buckeye has already removed all infrastructure from the site and plugged and abandoned the disposal well (Appendix A).

5.1 Approach

The purpose of the proposed remediation plan is to restore the two areas to conditions similar to the native landscape and offer groundwater protection. The areas will be graded and then seeded to establish vegetative cover that equals or exceeds the natural levels in undisturbed areas adjacent to the site, per NMSLO reclamation rules and SW-324 (NMSLO, 2018). The proposed remediation plan is described in the following subsections.

5.1.1 Vertical Delineation

Before remediation, Buckeye will advance two exploratory borings to delineate vertical extents of soil impacts. Specifically, these borings will be used to determine whether impacts have reached groundwater. One boring will be placed within the footprint of the former tank battery and the second boring will be placed in the immediate vicinity of the former State AF #003 well site. These locations have the highest constituent concentrations (Section 4) and are expected to have the greatest impacts at depth. Previous attempts at vertical delineation at these two locations using a backhoe and a trackhoe were not successful due to the presence of hard caliche.

Field screening (i.e., EC and photoionization detector [PID] measurements) of soil samples will be conducted. Samples will be collected at 2-foot intervals from land surface to a depth of 10 feet, and then at 5-foot intervals at depths greater than 10 feet. Each borehole will be advanced until field screening indicates vertical delineation of soil impacts. A confirmation sample will be collected from the bottom of each borehole for submittal to Cardinal for the following laboratory analyses:

- Chloride using SM 4500-Cl-B
- TPH, including gasoline-range organics (GRO) (C8-C10), diesel-range organics (DRO) (>C10-C28), and motor oil-range organics (MRO) (>C28-C36) using EPA method 8015 modified
- BTEX using EPA method SW-846 8021B

This additional investigation will build on the January 2025 soil sampling results, which showed TPH impacts in soil to 8 feet bgs (final depth investigated) at the former tank battery. The sampling results exceeded the most stringent OCD numerical limit for TPH (100 mg/kg). The TPH impacts appear to be limited to the former area of the lined secondary containment but the vertical extent of contamination is unknown.

5.1.2 Soil Removal

Buckeye will remove impacted soil using common earthmoving equipment (e.g., a backhoe or trackhoe). Soil from a depth of up to 5 feet with chloride, TPH, BTEX, and/or benzene concentrations greater than the strictest standards provided in Table 1 of 19.15.29.12 NMAC (i.e., 600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg total BTEX, and 10 mg/kg benzene) will be removed. Buckeye will excavate soil (1) until clean soil is encountered, where depths of impacts

are less than 4 feet, or (2) to a depth of 5 feet, where depths of impacts exceed 4 feet. Excavated soil will be transported off-site to Lea Land LLC in Hobbs, New Mexico.

A field scientist will be present to oversee and document remediation and reclamation activities, including field screen of soil samples to direct the removal. The field scientist will take field EC_{1:5} and PID measurements of the soil samples to determine the lateral and vertical extents of chloride and TPH impacts to soil to be removed (Section 5.1.2). Excavation will continue until screening criteria are met, except where excavations abut areas of impacted soil not caused by Buckeye operations. These exceptions include (1) the wash south of the former tank battery location and (2) the suspected reserve pit north of the former State AF #003 SWD well. The June 2020 Vanguard pipeline release has likely had a more substantial impact on the wash, and Buckeye did not construct or operate in the area of the suspected reserve pit.

Anticipated excavation extents are shown in Figure 7. The northern excavation area (near the former State AF #003 SWD well) is approximately 0.4 acre. The southern excavation area (at the former tank battery location) is approximately 1.6 acres. Assuming an average excavation depth of 5 feet at both locations, the volumes of soil to be removed are approximately 3,200 and 12,900 cubic yards at the northern and southern excavation areas, respectively.

In addition to removing impacted soil, Buckeye will remove emplaced caliche from the access road and pads present on the site. Where possible, this material will be isolated from impacted soils and recycled.

5.1.3 Field Screening and Confirmation Soil Sampling

DBS&A used linear regression to correlate the January 2025 field EC screening (field EC_{1:5}) results to the laboratory chloride analytical results to determine a site-specific field EC_{1:5} value that can be used to assess if chloride concentrations in soil are expected to be above or below 600 mg/kg in the field. As shown in Figure 8, there is a strong correlation between field EC_{1:5} and chloride ($r^2 = 0.91$). A chloride concentration of 600 mg/kg is equivalent to a field EC_{1:5} of 529 $\mu\text{S}/\text{cm}$. To be conservative while directing soil removal activities, the targeted field EC_{1:5} value of 500 $\mu\text{S}/\text{cm}$ will be used to guide soil removal (i.e., soil with field EC_{1:5} values greater than 500 $\mu\text{S}/\text{cm}$ will be removed).

TPH and BTEX screening will be performed using a PID. Field EC_{1:5} and PID measurements will also be collected as the excavations are advanced.

When both field EC_{1.5} values are at or below 500 µS/cm and PID measurements indicate no hydrocarbons, the lateral or vertical extents of excavation will be considered sufficient, excavation will stop, and confirmation soil samples will be collected for analysis at Cardinal.

Confirmation samples will be collected at regular intervals to demonstrate that all impacted soil has been removed up to a depth of 5 feet. Vertical confirmation samples will be collected from the bottoms of the excavations at locations not excavated to 5 feet. Lateral confirmation samples will be collected from the perimeters of the excavations. Anticipated confirmation sample locations are shown in Figure 7. DBS&A anticipates that one vertical and four lateral samples will be collected from the northern excavation, and that five vertical and seven lateral samples will be collected from the southern excavation. However, the actual number and locations of confirmation samples may change due to the sizes and geometries of the actual excavations, as informed by field screening data.

5.1.4 Soil Replacement, Grading, and Revegetation

Buckeye will obtain clean soil and clay to backfill the excavations from SB Land, LLC (SB Land) in Lovington, New Mexico. SB Land sells caliche, clay, and top soil. Buckeye will purchase top soil and clay for backfilling. Fill materials will consist of non-waste-containing, uncontaminated earthen material with chloride concentrations less than 600 mg/kg (as analyzed by EPA method 300.0). The top soil will be suitable for the establishment of vegetation at the site.

Areas where impacts to soil exceed a depth of 4 feet and soil has been removed to 5 feet will be backfilled with 0.5 to 1 foot of low-permeability clay followed by 4.5 to 4 feet of clean top soil. Buckeye will compact the clay to create an infiltration barrier. The clay layer will significantly reduce the potential for contamination below 5 feet to migrate, and will therefore protect groundwater quality.

The excavations will be backfilled with top soil and then graded and revegetated, as follows:

- *Grade:* The regional topography in the vicinity of the site slopes gently to the southeast at a grade of approximately 0.4 percent. Buckeye will regrade the two areas so that they slope to the southeast at a grade consistent with the regional topography (i.e., less than 1 percent). Sloping will help to restore the natural drainage pattern. Before grading, the crushed caliche that has been placed on the access road and pads of the former salt water disposal well and tank battery locations will be removed. After the caliche is removed, four soil samples will be collected. The soil samples will be taken from various locations along the road to confirm the results of the EM survey (Section 4.2.1).

- *Revegetate:* The site will be revegetated using a seed mix consisting of native plants common to the area (Appendix G). Revegetation will include cross ripping, scarification, seeding, and mulching, as follows:
 - ◇ *Scarification:* Scarification will be used to roughen the soil surface and provide a suitable seedbed. It will be performed with common earthmoving equipment. The degree of scarification required for proper seeding will be determined after grading, but will be completed to a depth of 2 to 4 inches. It will be conducted on contour to avoid the development of flow paths parallel to the slope that could promote erosion.
 - ◇ *Seeding:* Seeds will be broadcast using common rangeland or other appropriate equipment. Seeds will be allowed to fall freely and will be subsequently covered (e.g., raked). Buckeye will conduct seeding just before the monsoon season to help promote growth and revegetation success. Seed will be applied at the rates specified in Appendix G. This seed mix was selected from those of NMSLO and includes annual quick-cover grasses, cool-season and warm-season grasses, wildflowers, and woody shrubs.
 - ◇ *Mulching:* Buckeye will apply weed-free mulch to the revegetated soil surface to minimize wind and stormwater erosion and to help maintain soil moisture.

Buckeye will use care to not introduce rocks and caliche into the top soil will performing earthwork (e.g., grading and scarification).

The expected total area to be restored is 2.0 acres, and is shown on Figure 7. Upon completion of site remediation and reclamation, Buckeye will complete and submit the site characterization and remediation portions of Form C-141 to OCD.

5.2 Schedule

Buckeye will implement the proposed measures just before the first monsoon season following OCD and NMSLO approval of this remediation plan. The monsoon season is typically between mid-July and September, so the majority of the earthwork is expected to be conducted in May and June and the two remediated areas seeded in mid-July. If necessary, Buckeye will use a water truck to spray irrigate the seeded areas. This may be necessary if monsoonal rainfall is less than expected or delayed.

5.3 Monitoring

Buckeye will have site inspections conducted during the first year after seeding to assess revegetation progress. A field biologist will perform the inspections to assess whether vegetative cover is likely to equal or exceed the natural levels in undisturbed areas adjacent to the two remediated and reclaimed areas (i.e., northern and southern areas). The areas will be reseeded and irrigated as needed.

References

- Boone Archaeological Consultants, LLC (Boone). 2024. NMCRIS Investigation Abstract Form, NMCRIS Activity Number: 156680.
- Daniel B. Stephens & Associates, Inc. (DBS&A). 2024. *Site assessment plan, State AF #003 SWD Site*. Prepared for Buckeye Disposal, Inc. May 17, 2024.
- DBS&A. 2025. *Proposed remediation plan, State AF #003 SWD Site*. Prepared for Buckeye Disposal, Inc. March 3, 2025.
- Griffith, G.E., J.M. Omernik, M.M. McGraw, G.Z. Jacobi, C.M. Canavan, T.S. Schrader, D. Mercer, R. Hill, and B.C. Moran. 2006. *Ecoregions of New Mexico (color poster with map, descriptive text, summary tables, and photographs)*. U.S. Geological Survey. Scale 1:1,400,000.
- Johnson, E. 2007. Grassland ecosystems of the Llano Estacado. p. 11-23 in Sosebee, R.E.; D.B. Wester, C.M. Britton, E. McArthur, E. Durant, and S.G. Kitchen (Eds.), *Proceedings: Shrubland dynamics – Fire and water*. August 10-12, 2004, Lubbock, Texas. Proceedings RMRS-P-47.
- Natural Resources Conservation Service (NRCS). 2024. Web Soil Survey mapping application. Accessed January 24, 2024. <<https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>>.
- New Mexico Oil Conservation Division (NM OCD) of the Energy, Minerals, and Natural Resources Department. 2024. NM OCD Oil and Gas Map. Accessed January 22, 2024. <<https://ocd-hub-nm-emnrd.hub.arcgis.com/>>.
- NM OCD. 2025. Forwarded e-mail from Terry Payton to John Ayarbe, DBS&A, regarding The Oil Conservation Division (OCD) has rejected the application, Application ID: 438610. march 12, 2025.

New Mexico State Land Office (NMSLO). 2018. *New Mexico State Land Office salt water disposal easement, No. SW-324 renewal, State AF #3, 30-025-20980*. January 23, 2018.

NMSLO. 2023. Environmental Compliance Office document review checklists associated with the review of the remediation plan for State AF #003 SWD Site and Tank Battery. Prepared by T. Knight, CHMM, Environmental Specialist. August 30, 2023.

NMSLO. 2025. E-mail from Tami C. Knight to John Ayarbe, DBS&A, regarding Submittal, Buckeye State AF #003 proposed remediation plan - not approved. March 25, 2025.

U.S. Fish and Wildlife Service (USFWS). 2024. National Wetland Inventory, Surface Waters and Wetlands. Accessed January 22, 2024. <<https://www.fws.gov/program/national-wetlands-inventory/wetlands-mapper>>.

Figures



Figure 1

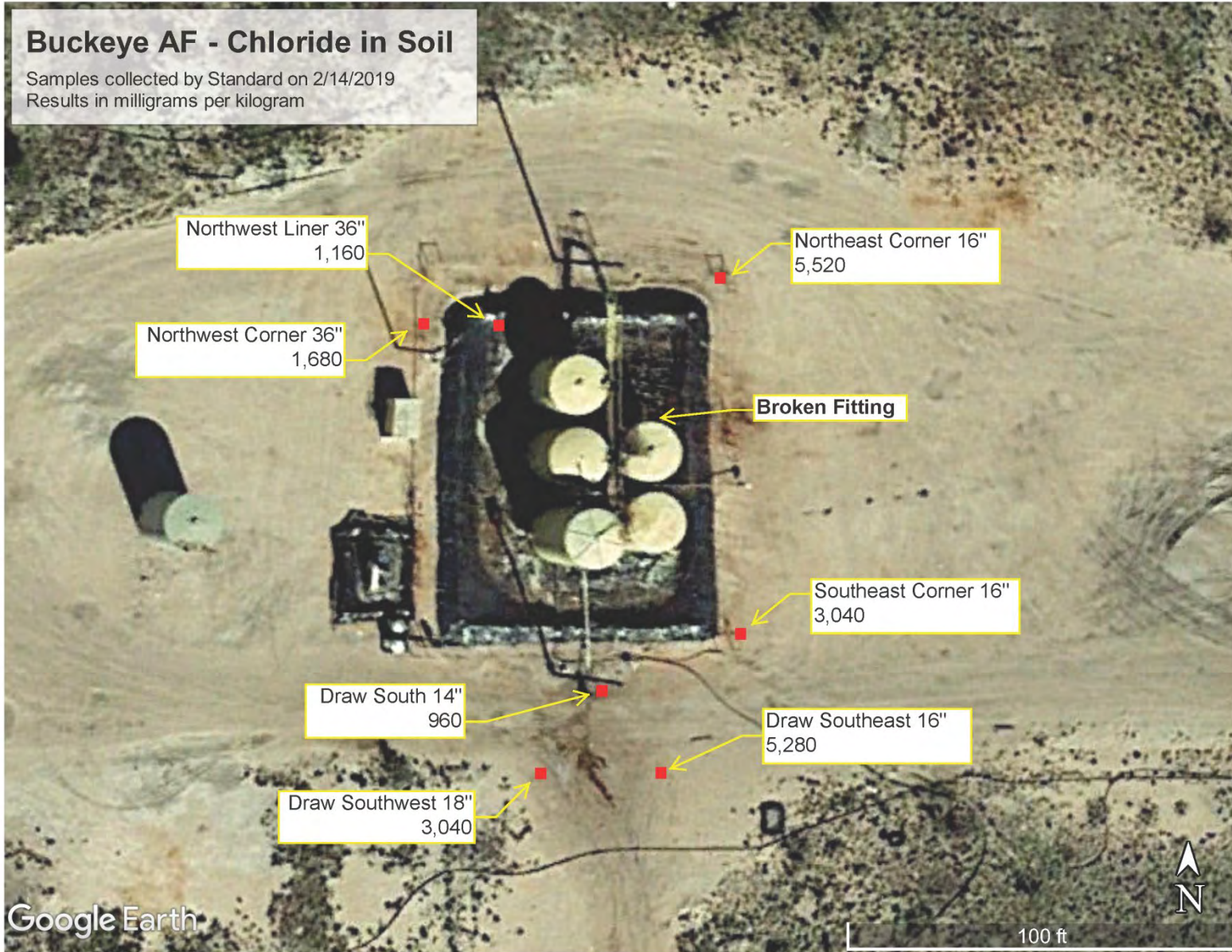
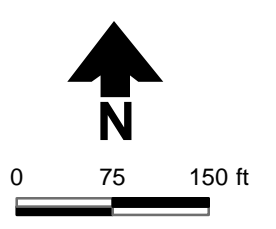
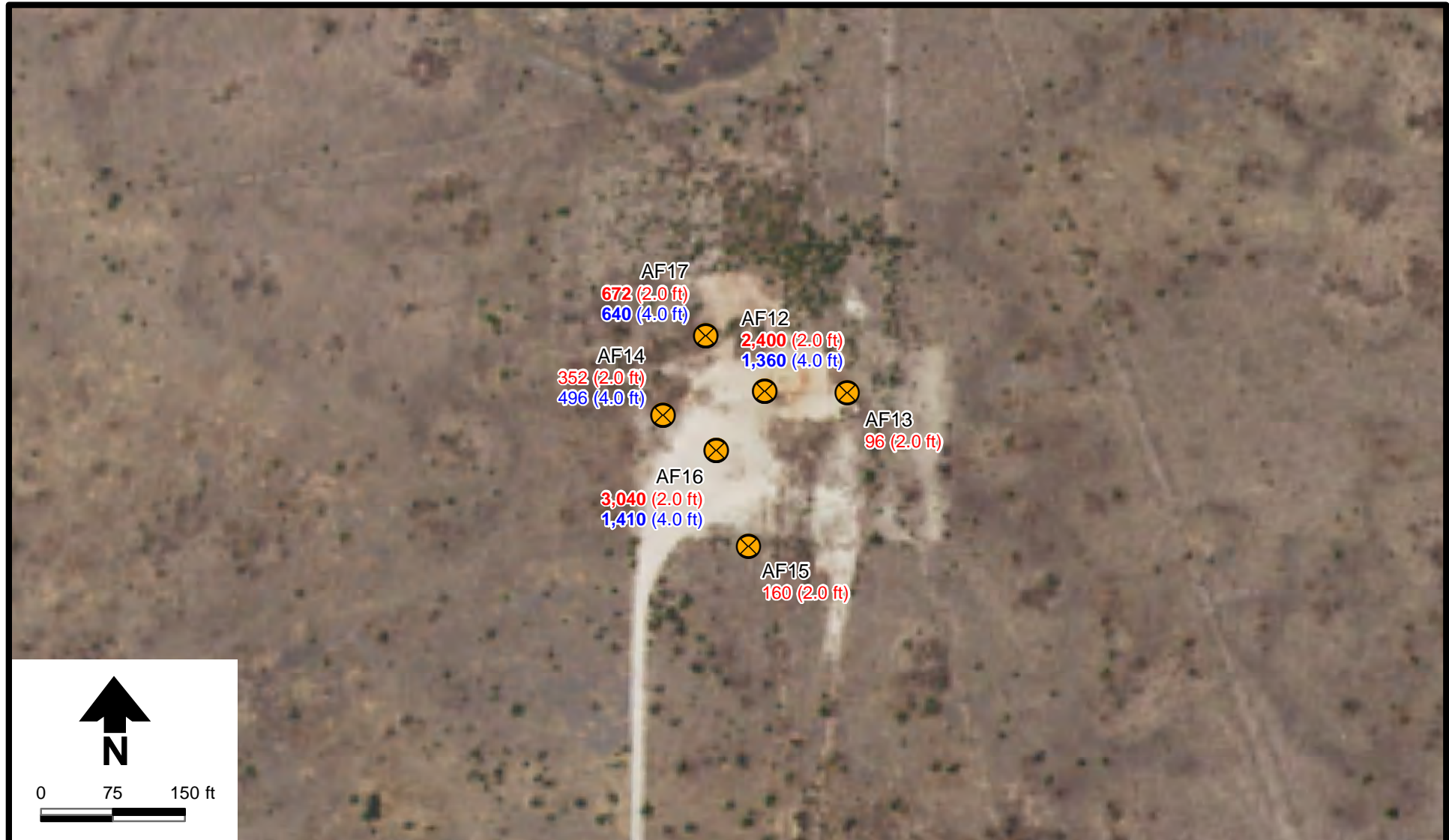


Figure 2



Explanation

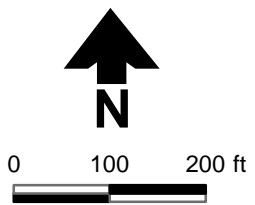
- AF14 Soil Chloride (mg/kg)
- 352 (2.0 ft) **Shallow** (Depth)
- 496 (4.0 ft) **Deep** (Depth)
- ⊗ December 2023 sample location

Notes: 1. Soil samples were collected on December 1, 2023.
 2. **Bold** indicates concentration greater than or equal to 600 mg/kg.

Source: Aerial imagery (NAIP, 2022).

BUCKEYE STATE AF #003
Soil Chloride Results
Pad of Former Salt Water Disposal Well
December 2023

Figure 3a



Explanation

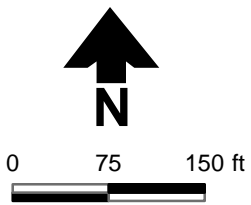
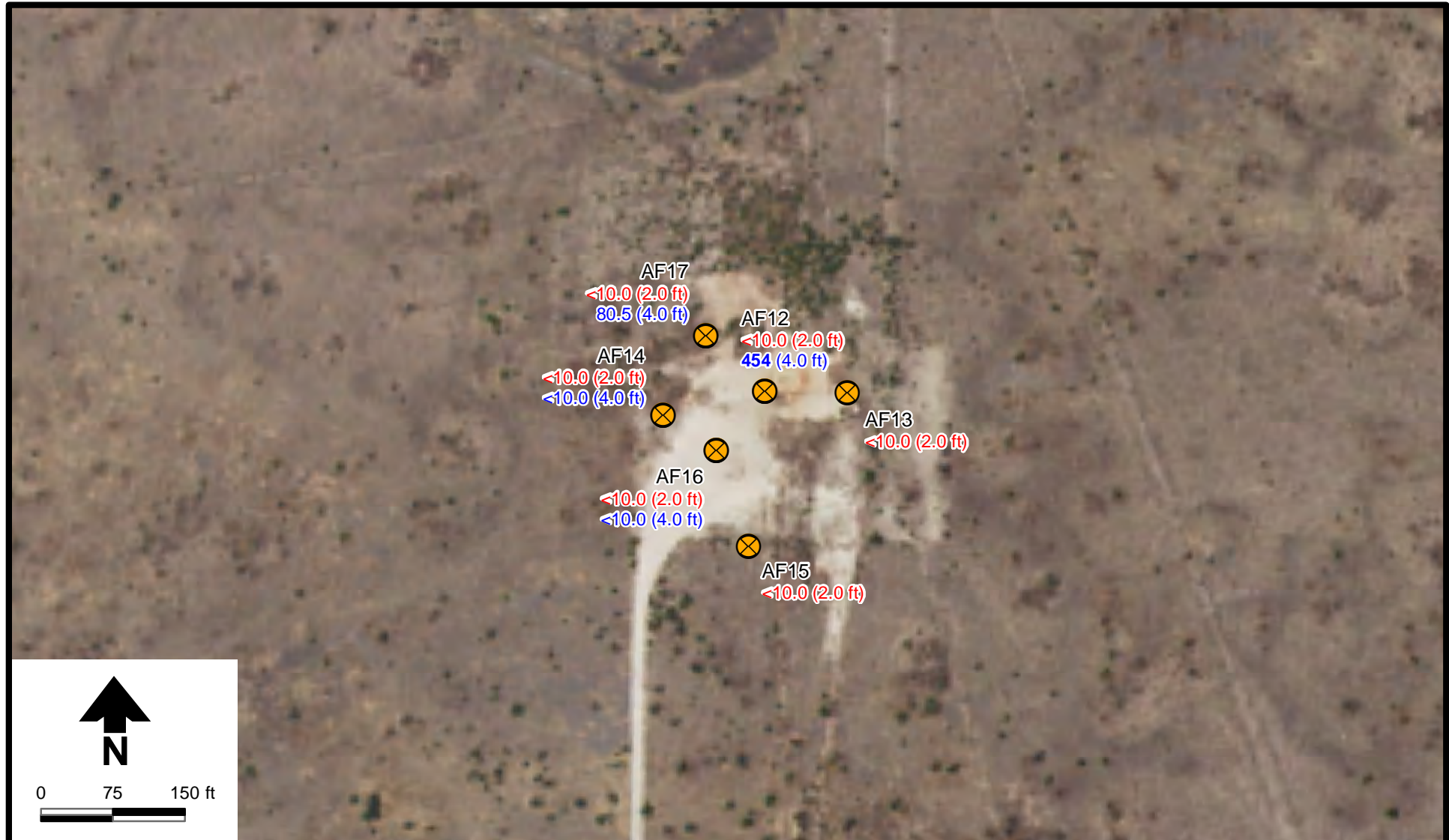
- AF02 Soil Chloride (mg/kg)
- 368 (2.0 ft) **Shallow** (Depth)
- 80 (4.0 ft) **Deep** (Depth)
- December 2023 sample location

- Notes: 1. Soil samples were collected on December 1, 2023.
 2. **Bold** indicates concentration greater than or equal to 600 mg/kg.

Source: Aerial imagery (NAIP, 2022).

BUCKEYE STATE AF #003
Soil Chloride Results
Former Tank Battery Location
December 2023

Figure 3b



Explanation

- AF17 Soil TPH (mg/kg)
- <10.0 (2.0 ft) **Shallow** (Depth)
- 80.5 (4.0 ft) **Deep** (Depth)
- ⊗ December 2023 sample location

- Notes: 1. Soil samples were collected on December 1, 2023.
 2. TPH = Total Petroleum Hydrocarbons
 3. **Bold** indicates concentration greater than or equal to 100 mg/kg.

Source: Aerial imagery (NAIP, 2022).

BUCKEYE STATE AF #003

Soil TPH Results

Pad of Former Salt Water Disposal Well

December 2023

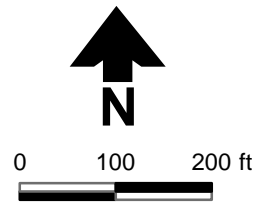
Figure 4a



4/16/2024

a Geo-Logic Company
DB19.1241

OCD Ex. 17-026



Explanation

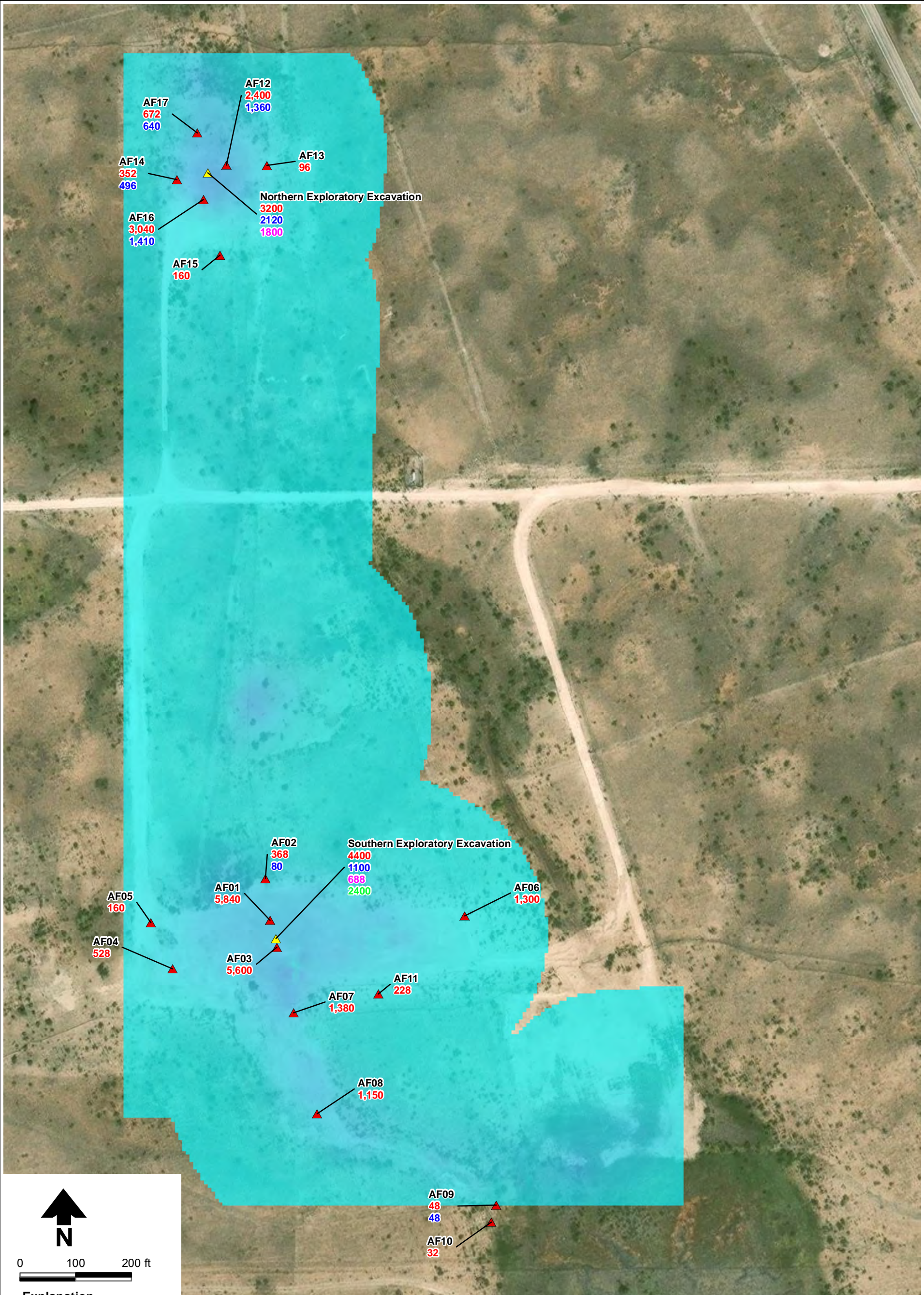
- AF02 Soil TPH (mg/kg)
- <10.0 (2.0 ft) **Shallow** (Depth)
- <10.0 (4.0 ft) **Deep** (Depth)
- ⊗ December 2023 sample location

Notes: 1. Soil samples were collected on December 1, 2023.
 2. TPH = Total Petroleum Hydrocarbons
 3. **Bold** indicates concentration greater than or equal to 100 mg/kg.

Source: Aerial imagery (NAIP, 2022).

BUCKEYE STATE AF #003
Soil TPH Results
Former Tank Battery Location
December 2023

Figure 4b



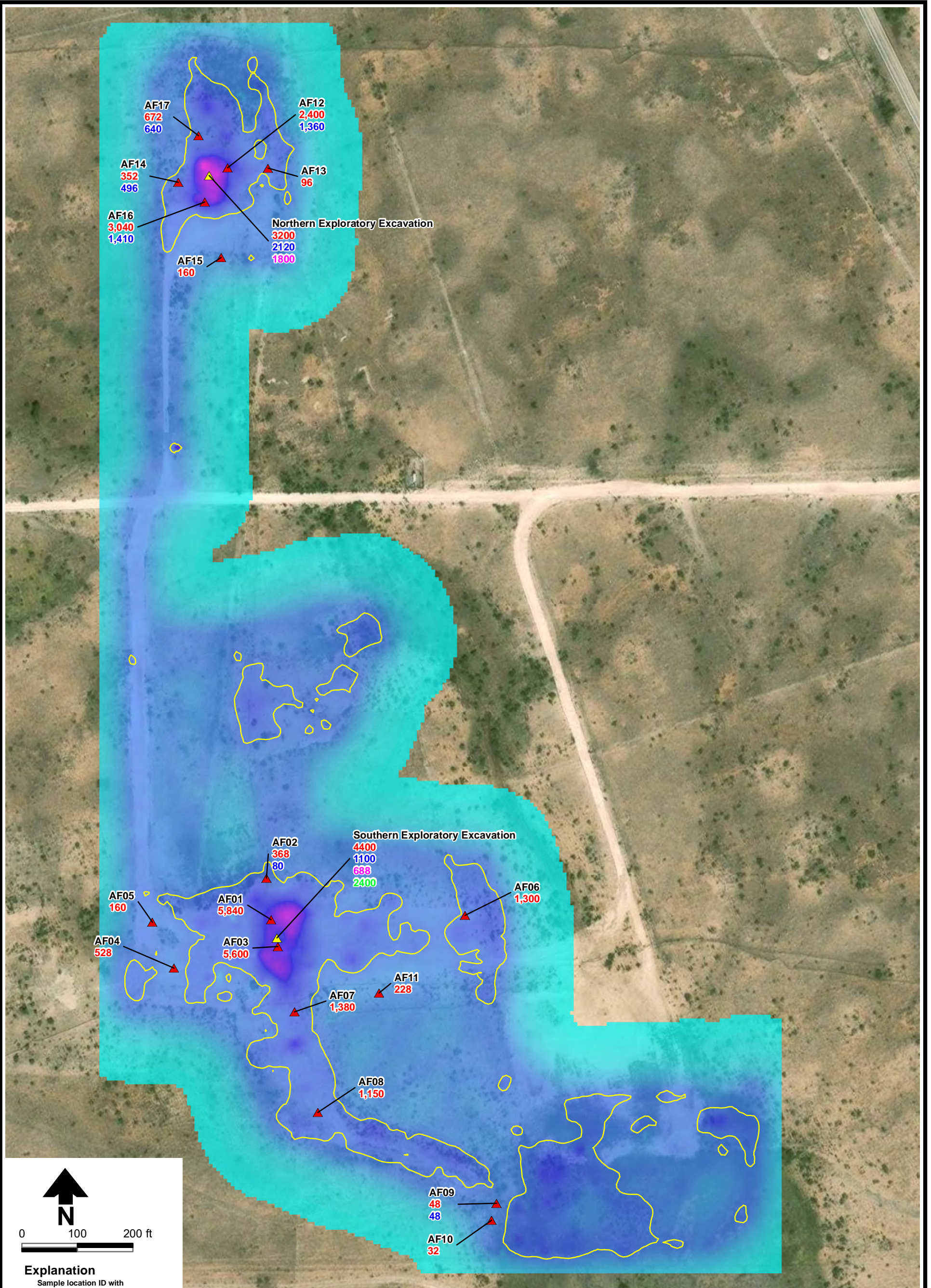
Source: Aerial imagery (ESRI, 2024)

Notes: 1. The EM31 vertical dipole has a depth of investigation of 6 meters (approximately 20 feet).
2. Geophysical survey data processed using simple kriging.

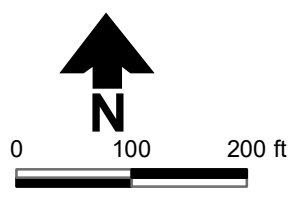
Figure 5a

Explanation
 Sample location ID with chloride concentrations (mg/kg)
 2 feet
 4 feet
 6 feet
 8 feet
 ▲ December 2023 soil sample location
 ▲ January 2025 soil sample location

EM31 vertical dipole survey results
 EC_A (µS/cm)
 High : 5050
 Low : 0



Source: Aerial imagery (ESRI, 2024)



- Explanation**
- Sample location ID with chloride concentrations (mg/kg)
 - 2 feet
 - 4 feet
 - 6 feet
 - 8 feet
 - December 2023 soil sample location (red triangle)
 - January 2025 soil sample location (yellow triangle)
 - Area predicted to exceed 600 mg/kg chloride to 2 feet bgs (yellow outline)

EM38 vertical dipole (0.5-m coil) survey results

EC_A (μS/cm)

High : 5050

Low : 0

- Notes:
- The EM38 0.5-meter vertical dipole has a depth of investigation of 0.75 meters (approximately 2.5 feet).
 - Estimated area above 600 mg/kg chloride based on linear regression of EC_A and soil chloride sample data from 2 feet bgs.
 - Geophysical survey data processed using simple kriging.

BUCKEYE STATE AF #003
Geophysical Survey Results
EM38 Vertical Dipole (0.5-meter Coil)

Figure 5b

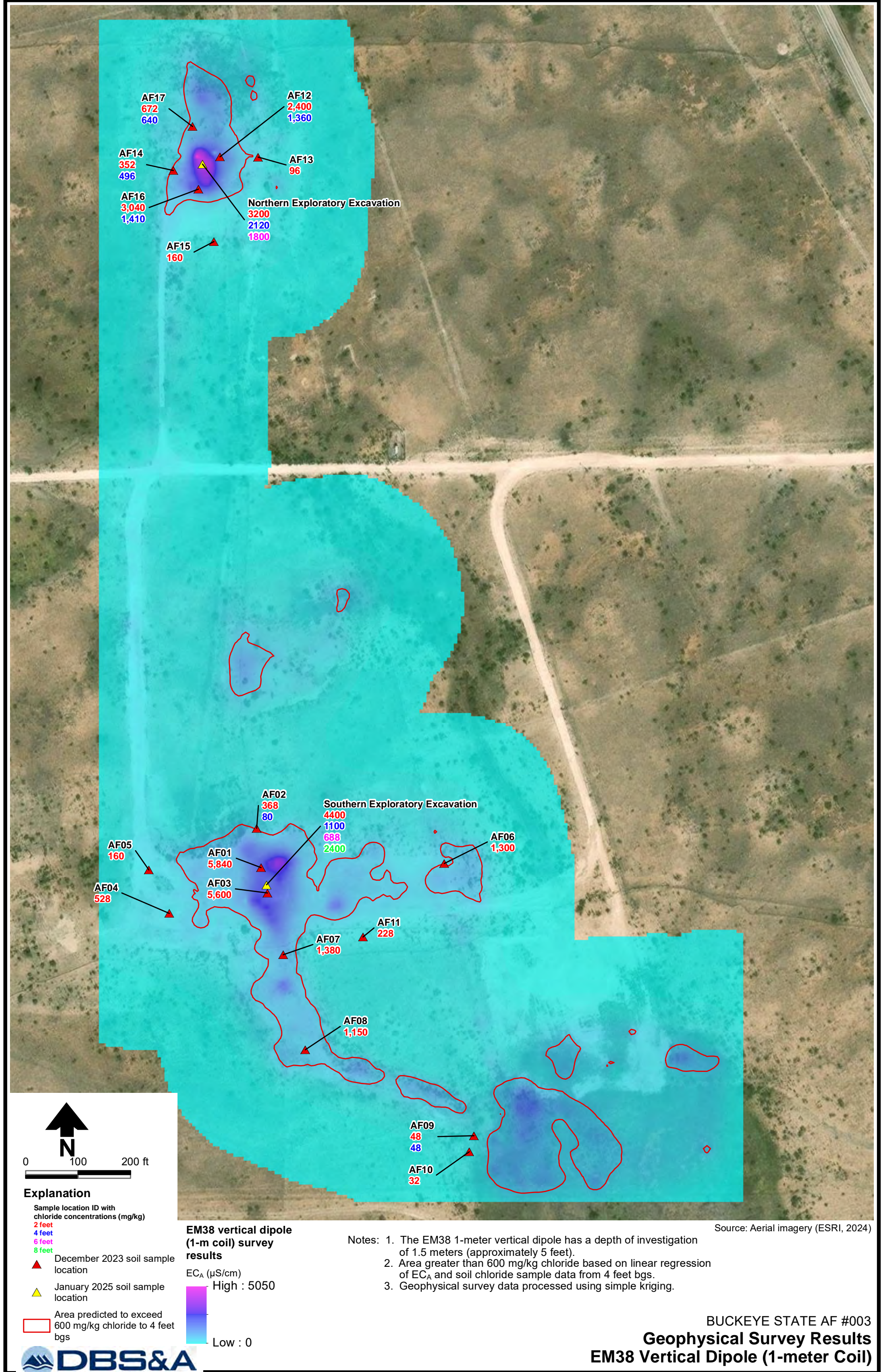
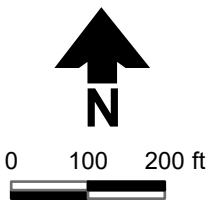


Figure 5c



Explanation

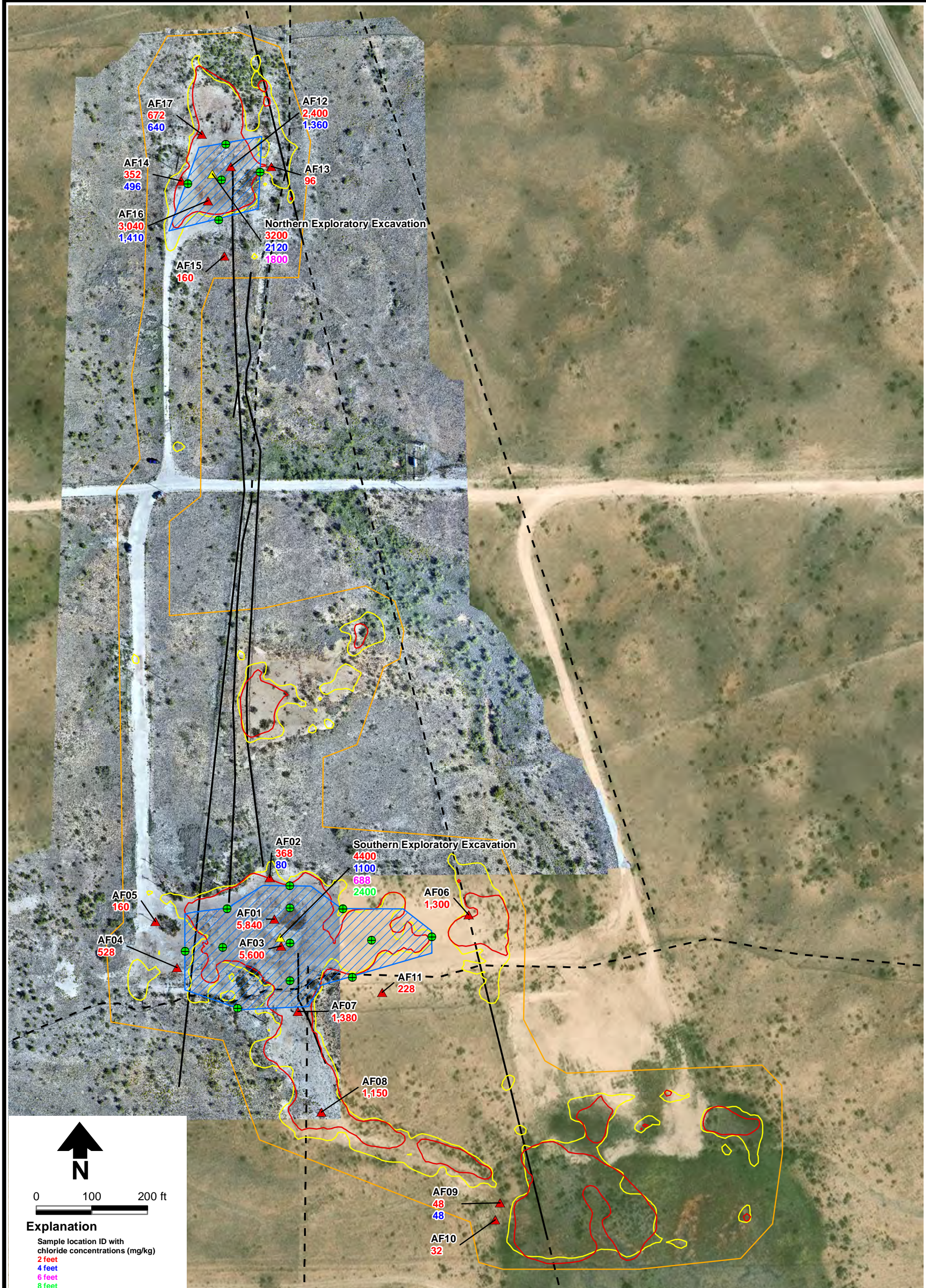
- OCD well location
- OSE point of diversion (POD)
- Known pipeline
- - - Inferred pipeline
- SLO mineral lease
- SLO oil & gas lease
- SLO commercial lease

Notes:

- Well and facility labels are given in black.
- NM State Land Office (SLO) lease areas are labeled by the name of the leaseholder. Label colors correspond to the lease boundary symbology. Lease data obtained from SLO website on February 17, 2025.
- Pipelines are both buried and above ground, determined from site reconnaissance and aerial imagery review. Other pipelines not shown may be present.

Sources: (1) Aerial imagery (ESRI, 2024)
 (2) New Mexico Oil Conservation Division (OCD) well data [updated 2/17/2025]
 (3) New Mexico Office of the State Engineer (OSE) point of diversion (POD) data [updated 2/10/2025]

**BUCKEYE STATE AF #003
 New Mexico State Land Office Leases and
 Various Operator Pipelines**



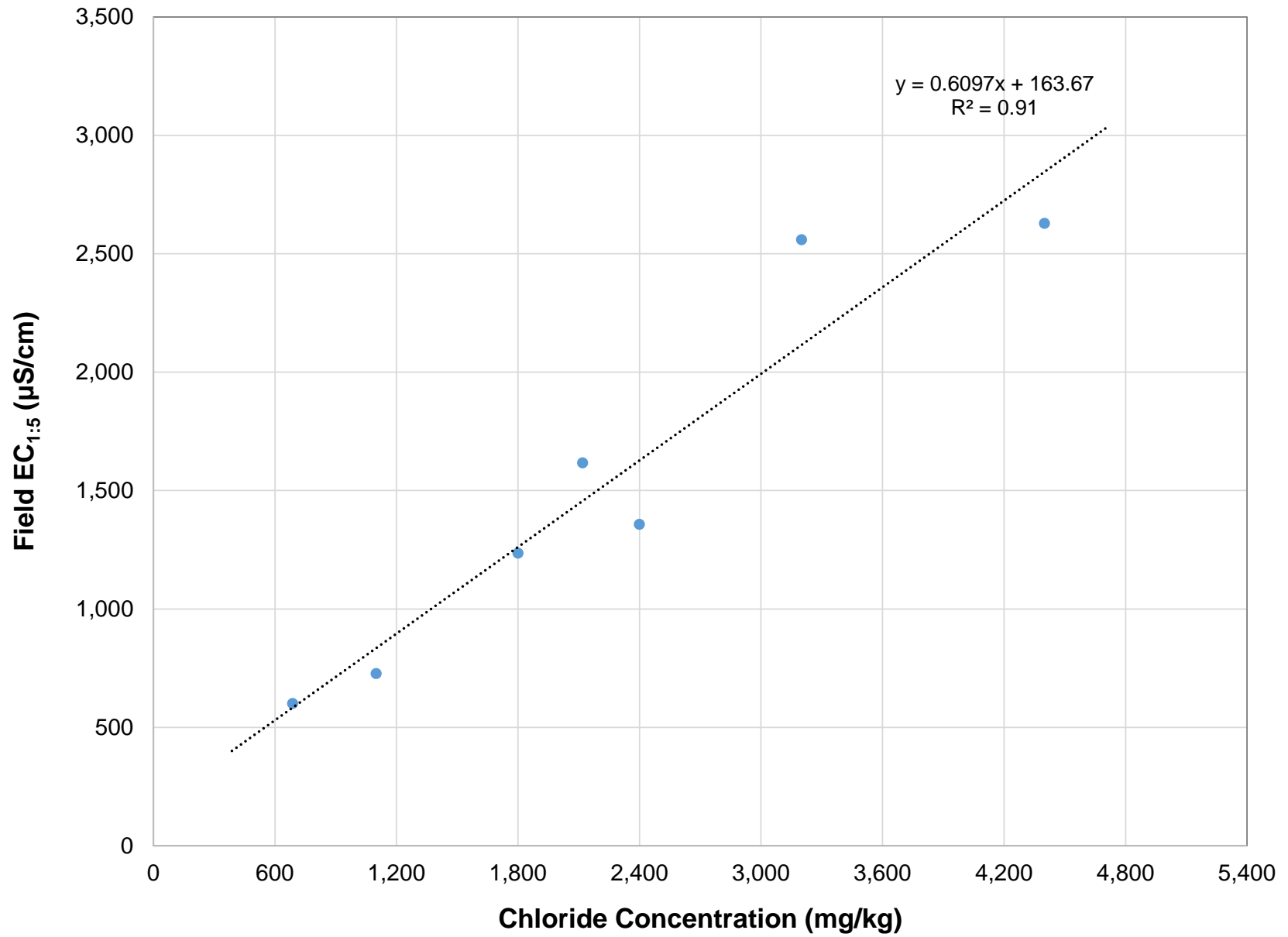
Source: Aerial imagery (ESRI, 2024; Atkins, 2024)

- Notes:**
1. Estimated area above 600 mg/kg chloride at 2 feet bgs derived from EM38 0.5-meter vertical dipole data.
 2. Estimated area above 600 mg/kg chloride at 4 feet bgs derived from EM38 1-meter vertical dipole data.
 3. Geophysical data related to December 2023 soil sample results using linear regression.
 4. Pipelines are both buried and above ground, determined from site reconnaissance and aerial imagery review. Other pipelines not shown may be present.

BUCKEYE STATE AF #003

Estimated Extents of Proposed Excavation Areas

Figure 7



BUCKEYE STATE AF #003

**Linear Regression of Field EC_{1:5} vs.
Soil Chloride Concentration**

Figure 8



3/3/2025

DB19.1241

OCD Ex. 17-033

Tables

Table 1. Soil Sample Analytical Results, December 2023

Location	Depth (feet)	Concentration (mg/kg)			
		Chloride	TPH	BTEX	Benzene
AF01	2.0	5,840	1,087	<0.300	<0.050
AF02	2.0	368	<10.0	<0.300	<0.050
AF02	4.0	80	<10.0	<0.300	<0.050
AF03	2.0	5,600	2,389.6	<0.300	<0.050
AF04	2.0	528	157.7	<0.300	<0.050
AF05	2.0	160	<10.0	<0.300	<0.050
AF06	2.0	1,300	<10.0	<0.300	<0.050
AF07	2.0	1,380	<10.0	<0.300	<0.050
AF08	2.0	1,150	<10.0	<0.300	<0.050
AF09	2.0	48	<10.0	<0.300	<0.050
AF09	4.0	48	<10.0	<0.300	<0.050
AF10	2.0	32	<10.0	<0.300	<0.050
AF11	2.0	228	<10.0	<0.300	<0.050
AF12	2.0	2,400	454	<0.300	<0.050
AF12	4.0	1,360	<10.0	<0.300	<0.050
AF13	2.0	96	<10.0	<0.300	<0.050
AF14	2.0	496	<10.0	<0.300	<0.050
AF14	4.0	352	<10.0	<0.300	<0.050
AF15	2.0	160	<10.0	<0.300	<0.050
AF16	2.0	3,040	<10.0	<0.300	<0.050
AF16	4.0	1,410	<10.0	<0.300	<0.050
AF17	2.0	672	<10.0	<0.300	<0.050
AF17	4.0	640	80.5	<0.300	<0.050

Bold indicates that value exceeds 600 milligrams per kilogram (mg/kg) for chloride and 100 mg/kg for total petroleum hydrocarbons (TPH).

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

Table 2. Soil Sample Analytical Results, January 2025

Sample ID	Field EC _{1:5} (μS/cm)	Concentration (mg/kg)				
		Chloride	Total Petroleum Hydrocarbons			Total
			Gasoline-Range Organics (C6-C10)	Diesel-Range Organics (>C10-C28)	Extended Diesel- Range Organics (>C28-C36)	
North Exploratory Excavation 0-2'	2,559	3,200	<10.0	<10.0	<10.0	<30.0
North Exploratory Excavation 2'-4'	1,617	2,120	<10.0	<10.0	<10.0	<30.0
North Exploratory Excavation 4'-6'	1,235	1,800	<10.0	<10.0	<10.0	<30.0
South Exploratory Excavation 0-2'	2,628	4,400	338	3,700	674	4,712
South Exploratory Excavation 2'-4'	727	1,100	299	5,440	979	6,718
South Exploratory Excavation 4'-6'	600	688	748	10,900	2,320	13,968
South Exploratory Excavation 6'-8'	1,357	2,400	103	3,150	606	3,859

Bold indicates that value exceeds 600 milligrams per kilogram (mg/kg) for chloride and 100 mg/kg for total petroleum hydrocarbons (TPH). BTEX constituents were not detected above a laboratory detection limit of up to 0.150 mg/kg; therefore, results are not shown.

Appendix A

Record of State AF #003
SWD Plugging and
Abandonment

State of New Mexico Energy, Minerals and Natural Resources

Form C Revised July 18,

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

- District I - (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283 811 S. First St., Artesia, NM 88210
District III - (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505

WELL API NO. 30-025-20980
5. Indicate Type of Lease STATE [X] FEE []
6. State Oil & Gas Lease No. E 7723
7. Lease Name or Unit Agreement Name Buckeye State AF
8. Well Number 3
9. OGRID Number 222759
10. Pool name or Wildcat Wolfcamp

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well [] Gas Well [X] Other SWD

2. Name of Operator Buckeye Disposals LLC

3. Address of Operator PO Box 2724 Lubbock, Texas 79408

4. Well Location

Unit Letter L : 1980 feet from the South line and 990 feet from the West line
Section 8 Township 185 Range 35E NMPM County Lea

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

- PERFORM REMEDIAL WORK [] PLUG AND ABANDON [X]
TEMPORARILY ABANDON [] CHANGE PLANS []
PULL OR ALTER CASING [] MULTIPLE COMPL []
DOWNHOLE COMMINGLE []
CLOSED-LOOP SYSTEM []
OTHER: []

SUBSEQUENT REPORT OF:

- REMEDIAL WORK [] ALTERING CASING []
COMMENCE DRILLING OPNS. [] P AND A [X]
CASING/CEMENT JOB [] PNR
OTHER: []

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

See attachments

Spud Date: []

Rig Release Date: []

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE [Signature]
Type or print name Jack Yates

TITLE Manager DATE 5-5-23
E-mail address: jack@bergsteinenterprises.com PHONE: 806-241-7405

For State Use Only

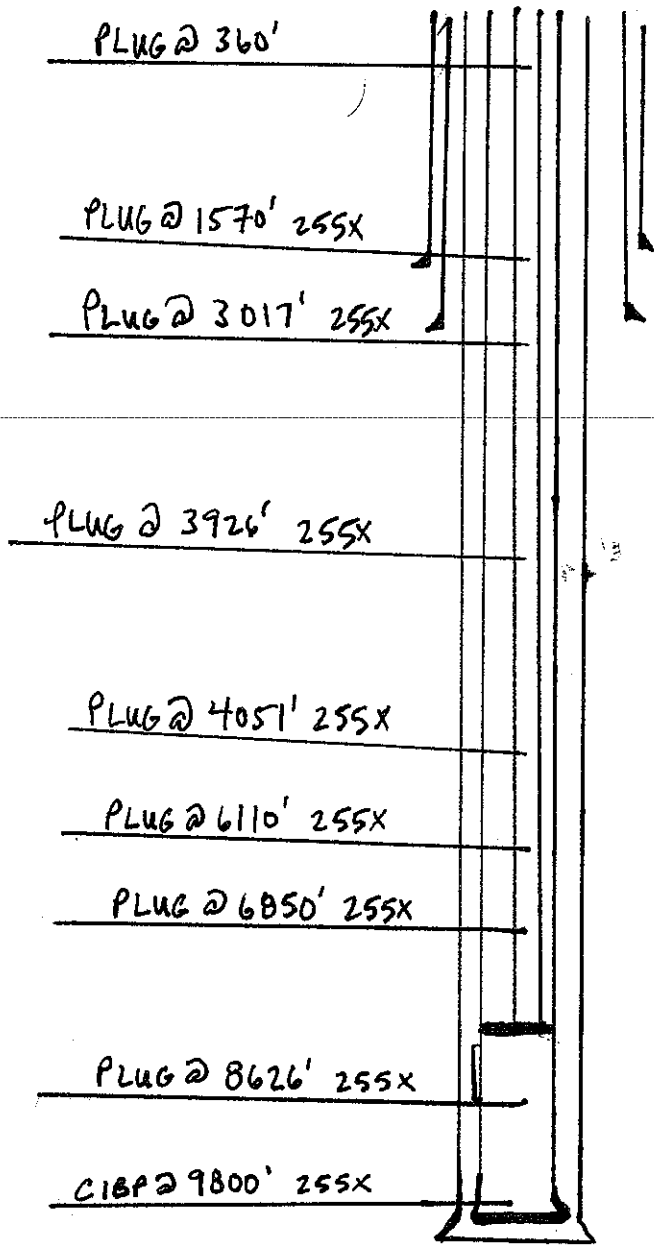
APPROVED BY: Kerry Fortner TITLE: Compliance Officer A DATE: 5/5/23

- **Buckeye Disposal LLC**
 - **Buckeye State AF #3**
 - **Start Date-04/03/23 Completed -04-20-23**
1. Mon-04/03/23-Arrived on location at 9am, held a 5min tailgate safety meeting, got rig spotted and equipment ready for rig up, rigged up the rig. Waited on BOP to arrive, it arrived at 11.30am, nipped down wellhead and nipped up BOP. Rigged up work floor and tubing equipment, unset packer, crew took lunch break. Begin pulling tubing pulled 299 joints and the PKR secured well shut down.
 2. Tues-04/04/23-Arrived on location, held a 5min tailgate safety meeting, opened well 0 psi, wireline arrived at 8am spotted equipment, rigged up tools and equipment, they tried to run in hole no luck. They noticed it was the wrong size tool. They had to run to town to get the correct tool. They arrived at 10:30am connected tool, ran in hole with gauge ring, then ran the bridge plug set it at (9800ft). Pulled out of hole and rigged down. Secured well shut down for the day due to the wind.
 3. Wens-04/05/23 Arrived on location, held a 5min tailgate safety meeting. Opened well 0psi, got equipment ready, waited on tubing testers. They arrived at 7:30am got spotted and rigged up. It was a windy morning. They tested 4 stands with the rod style testing method and our derrick man was struggling due to wind to stab the probe from the derrick. I decided to rig them down and get the Bars style testing equipment that would be more time efficient and a safer process. Rigged them down waited on new testing truck to arrive from there yard. Testers Arrived at 10:30 am, spotted in and rigged up we then proceeded to test tubing in the hole. Tested 12 stands had to replace 2 collars tested 15 more stand, crew then took a lunch break. After lunch proceeded to test tubing in the hole. Replaced a total of 6 collars, got tubing tested and rigged down tubing testers, secured well shut down for the day. (During the process of testing about 50 stands left to test, the bars were falling at a very slow rate due to well begin full of water we hooked up vac truck.)
 4. Thurs-04/06/23-Arrived on location, held tailgate safety meeting with crew, opened well 0 psi. Waited on cementers to finish rigging up, tied them on to the tubing to test the Bridge Plug, tested it to 500 psi tested good. Circulated well with jell brine. Spotted 25 sacks of cement, laid down 27 joints reversed pump water, to assure the tubing was clear. Waited on a new half pit due to the one on locating having a leak on it. Took a lunch break while it showed up, it arrived we then tied the hoses into the new half pit. Got ready to pump cement plug, pumped 25 sacks of class (8790 ft,) laid down 12 joints pulled 12 stands to the derrick, secured well shut down for the day.

5. Fri-04/07/23-Arrived on location, held a tailgate safety meeting, 0 psi on well opened up BOP, begin to run tubing in the hole to tag plug, tagged plug at 8626" ft. Then proceeded to lay down tubing on the trailer, laid down 62 joints, stood back 202 joints in the derrick. Ran in hole with 4" packer and 202 joints from the derrick, tried to set packer no luck picked up 1 joint worked packer again and got it to set at 6583". Rigged up wireline, perforated at 6800" ft, rigged down wireline, rigged up pump to try and get a pump rate, pressured rite up could not pump into perms. Called NMODC no answer, waited 30 mins no called was returned. Decided to secure well and shut down for the day.
6. Mon-04/10/23-Arrived on location, held tailgate safety meeting, checked pressure on well 0 psi, opened BOP, NMODC decided to spot plug 50 ft below perms, unset packer, picked up 7 joints to spot 25 sack plug at 6850" ft . Cement pump would not start. Waited until it was fixed at 10am. Proceeded to pump cement, laid down 12 joints and stood 15 stands back to the derrick WOC 4 hours. Went and tagged 6380" ft laid down 6 joints had rig problems shut down.
7. Tues-04/11/23-Arrived on location, held a tailgate safety meeting, waited on mechanic to arrive, and fix rig. He arrived got it going, laid down 12 joints spotted 25 sack plug at 6110" no tag required laid down 58 joints to 4200" ft. Secured well shut down for the day.
8. Wens-04/12/23-Arrived on location, held tailgate safety meeting, got equipment ready to pump plug cementer took a while to get his numbers ready and pump, did not start pumping until 8:30am. Pumped a 10 sack plug, pulled tubing to the derrick and waited on cement 4hrs. Opened well ran tubing with packer tagged plug at 4051"ft, laid down tubing to the next plug, set packer at 3640"ft. Rigged up wireline, perforated at 3876"ft rigged down wireline. Rigged up pump tried to establish pump rate could not, unset packer picked up 9 joints spotted 25 sacks of cement at 3926". Laid down 12 joints, stood back 15 stands to the derrick secured well shut down.
9. Thurs-04/13/23-Arrived on location, held tailgate safety meeting, opened well, started to run tuning tagged with 6 ft in, tagged way high, made a call to NMOCD and he decided to drill down to the plug that was pumped the day prior at 3926". Begin laying down 32 joints on the trailer and stood the rest in the derrick, pulled 6 stands and the tubing was full waited on mud bucket to arrive. It arrived at 11:30am we then continued pulling tubing, got to the plugged off joints begin to lay them down on the ground, laid down 32 cemented joints. Could not get the drilling equipment till the next day, secured well shut down.
10. Fri-04/14/23-Arrived on location, held tailgate safety meeting, opened well, spotted in drill collars and equipment, tallied the collars, begin to pick the up, picked up bit and 6 drill collars, ran tubing tagged at 2570" set 15 points on it fell through, continued to run tubing to 3988 never tagged on cement. Circulated well clean, POOH with tubing and laid down drill collars, secured well shut down.

11. Mon-04/17/23-Arrived on location, held safety meeting, opened well, begin to run tubing in hole, ran 114 joints from the derrick, picked up 7 joints from trailer, rigged up pump, spotted 25 sacks of cement at 3926" ft. laid down 12 joints stood back 15 stands WOC 4 hrs. Opened well begin to run tubing to tag plug, tagged at 3396" ft, good tag, laid down 10 joints, rigged up pump spotted 25 sacks at 3017" ft. Laid down 50 joints stood back the rest of the tubing secured well shut down.
12. Tues-04/18/23-Arrived on location, held safety meeting, opened well o psi, begin to run tubing to tag plug, tagged at 2517" ft. Laid down tubing to 1302" ft set packer. Secured well waited on wireline to arrive. They arrived got rigged up, perforated at 1520" ft, rigged down wireline, connected pump to try and establish rate, no luck decided to drop 50 ft below the perms and spot 25 sacks. Picked up 9 joints, spotted 25 sacks, laid down 17 joints, reversed out to clear tubing, stood 16 stands back in derrick shut down due to wind.
13. Wens-04/19/23-Arrived on location, held safety meeting, opened well 0 psi, ran tubing tagged at 1040" ft, good tag, begin to lay down tubing, laid down 31 joints, pulled two stands and picked up packer with 5 joints, set packer rigged up wireline, perforated at 360" ft, rigged down wireline, connected pump to establish rate, pumped 10 bbls at 480 psi, begin to pump 50 sacks of cement into perms. Shut in pressure was at 200 psi waited on cement to settle for 1hour, opened well, unset packer, laid down 4 joints set packer at 32" ft. Rigged up wireline, they perforated at 150" ft rigged them down. Rigged up pump to see if we could circulate well threw the surface casing, we circulated 20 bbls or water then begin to pump cement, pumped 80 sacks of cement and got good cement to surface stopped pumping. We then unset packer, laid down 1 joint and the packer, rigged down work floor and equipment, nipped down BOP, filled the casing and cellar with cement rigged down cementers and waited for cement to settle. Crew took lunch break, then cleaned and cleared location, got the rig ready for rig down to windy to rig down shut down for the day.
14. Thurs-04/20/23-Arrived on location, held safety meeting, rigged the rig down got it out of the way, waited on the excavator to arrive. Meanwhile crew pressure washed and organized rig. Excavator arrived we dig out the cellar crew assisted with shovels, welder them cut the well head off and welded a cap on there we back filled the well and leveled the grown. Moved rig to the yard shut down for the day. JOP COMPLETED.

BUCKEYE DISPOSAL INC.
STATE AF #3 - P9A SKETCH



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

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

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

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

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

COMMENTS

Action 213950

COMMENTS

Operator: BUCKEYE DISPOSAL, L.L.C. P.O. Box 2724 Lubbock, TX 79408	OGRID: 222759
	Action Number: 213950
	Action Type: [C-103] Sub. Plugging (C-103P)

COMMENTS

Created By	Comment	Comment Date
plmartinez	DATA ENTRY PM	5/5/2023

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

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

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

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

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

CONDITIONS

Action 213950

CONDITIONS

Operator: BUCKEYE DISPOSAL, L.L.C. P.O. Box 2724 Lubbock, TX 79408	OGRID: 222759
	Action Number: 213950
	Action Type: [C-103] Sub. Plugging (C-103P)

CONDITIONS

Created By	Condition	Condition Date
kfortner	Need C103Q and marker photo to release	5/5/2023

Appendix B
Boone (2024) NMSLO
Cultural Resources
Cover Sheet



Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:

(if applicable)

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

Project Location:

County(ies):

PLSS/Section/Township/Range):

For NMSLO Agency Use Only:

NMSLO Lease Number:

Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22

Appendix C

L02350 Well Log

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1

# 2072-2-137-7			
DPN: 25-11767			
0			

(A) Owner of well National Potash Co.
 Street and Number Box 731
 City Carlsbad State New Mexico
 Well was drilled under Permit No. _____ and is located in the
1/4 34 1/4 34 1/4 of Section 6 Twp. 18 S Rge. 35 E
 (B) Drilling Contractor Abbott Bros. License No. WD-46
 Street and Number Box 637
 City Hobbs State New Mexico
 Drilling was commenced March 1 19 60
 Drilling was completed March 5 19 60

(Plat of 640 acres)

Elevation at top of casing in feet above sea level _____ Total depth of well 216
 State whether well is shallow or artesian Shallow Depth to water upon completion 105

Section 2

PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	110	135	25	Water Sand
2	180	212	32	Sand & Gravel
3				
4				
5				

Section 3

RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
12 3/4	40	weld	0	216	216	weld	110	210

Section 4

RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5

PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
 Street and Number _____ City _____ State _____
 Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
 Plugging method used _____ Date Plugged _____ 19 _____
 Plugging approved by: _____ Cement Plugs were placed as follows:

No.	Depth of Plug		No. of Sacks Used
	From	To	

Basin Supervisor _____

FOR USE OF STATE ENGINEER ONLY

Date Received 1960 MAR 17 AM 8:37

File No. L-2350

Use Ind Location No. 18.358.323331

OCD Ex 17-048

Depth in Feet		Thickness in Feet	Color	Type of Material Encountered
From	To			
0	1	1		Soil
1	15	14		Caliche
15	40	25		Sand
40	50	10		Sandstone
50	110	60		Dry Sand
110	135	25		Water Sand
135	180	45		Tight Sand
180	212	32		Sand & Gravel
212	216	4		Red Bed
				L S Elev _____ 3950 ✓
				Depth to K _____ Trc 212 ✓
				Elev of K _____ Trc 3740 ✓
				Loc. No. 18.35.8.31444 ✓
				Hydro. Survey _____ Field Check <input checked="" type="checkbox"/>
				SOURCE OF ALTITUDE GIVEN
				Interpolated from Topo. Sheet <input checked="" type="checkbox"/>
				Determined by Inst. Leveling _____
				Other _____
				L S Elev _____ 3961 ✓
				Depth to K _____ Trc 212 ✓
				Elev of K _____ Trc 3749 ✓

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Murrell Abbott
Well Driller

Appendix D
Proximity to
Surface Water Features
New Mexico OCD
Oil and Gas Map

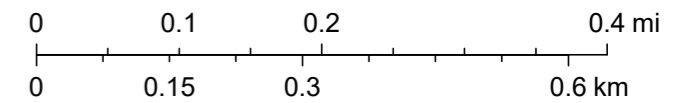
OCD Well Locations



1/22/2024, 2:56:49 PM

1:10,133

- | | | |
|---------------------|---------------------------------|-------------------------------|
| Wells - Large Scale | ● Oil, Plugged | — OSE Streams |
| ☆ Gas, Active | ● Oil, Temporarily Abandoned | ▲ NMED Drinking Water Systems |
| ● Oil, Active | △ Salt Water Injection, Plugged | --- PLSS Second Division |
| ● Oil, Canceled | ■ OSW Water Bodies | ▭ PLSS First Division |



Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Esri, HERE, Garmin, iPC, Maxar, NM OSE, BLM

Appendix E
Release Notification
Forms (C-141)

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

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Buckeye Disposals	Contact: Jim Sayre
Address: PO Box 2724 Lubbock, TX 79408	Telephone No.: 575-390-6006
Facility Name: State AF #3	Facility Type: Disposal

Surface Owner	Mineral Owner	API No.: 30-025-20980
---------------	---------------	-----------------------

LOCATION OF RELEASE

Unit Letter L	Section 8	Township 185	Range 35E	Feet from the 1980	North/South Line South Line	Feet from the 990	East/West Line West Line	County Lea County
------------------	--------------	-----------------	--------------	-----------------------	--------------------------------	----------------------	-----------------------------	----------------------

Latitude: 32.756736 Longitude: 103.484803

NATURE OF RELEASE

Type of Release: Spill	Volume of Release: 15 bbl	Volume Recovered: 14 bbl
Source of Release: 3" PVC Line	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Broken 3" PVC Line - Repair broken 3" PVC Line.

REVIEWED
By Kristen Lynch at 9:57 am, Sep 07, 2016

Describe Area Affected and Cleanup Action Taken.*
Inside lined dyke - Repair liner, evacuate fluid form inside the dyke and mediate dirt inside the lined dyke.

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

Signature: <i>Jim Sayre</i>	OIL CONSERVATION DIVISION	
Printed Name: Jim Sayre	CONDITIONALLY Approved by Environmental Specialist: <i>Kristen Lynch</i>	
Title: Manager	Approval Date: 9/07/2016	Expiration Date: 11/07/2016
E-mail Address: jim@thestandardenergy.com	Conditions of Approval: no Later than 10/7/2016 Provide depth to Ground Water Delineate and Remediate per NMOCD Guidelines. Attached <input type="checkbox"/> Discrete Samples Accepted ONLY. NMOCD must IRP 4429	
Date: 8/20/16	Phone: 575-390-6006	

* Attach Additional Sheets If Necessary

approve all site investigation & Corrective Activities prior to implementation. Corrective action is site specific and risk based. NMOCD retains the right to require remediation to more stringent levels than proposed in guidelines if warranted by site specific conditions. Notify NMOCD prior to all sampling, to allow opportunity for witness sampling operations.

nKL1625134663
pKL1625135663

HOBBS OCD

MAY 11 2018

RECEIVED

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

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company <i>Buckeye Disposal</i>	Contact <i>JIM SAYRE</i>
Address	Telephone No. <i>575-393-8352</i>
Facility Name <i>STATE AF</i>	Facility Type <i>DISPOSAL</i>

Surface Owner State	Mineral Owner State	API No. <i>30-025-20980</i>
----------------------------	----------------------------	-----------------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<i>L</i>	<i>8</i>	<i>185</i>	<i>35E</i>	<i>1980</i>	<i>SOUTH</i>	<i>990</i>	<i>WEST</i>	<i>LCA</i>

Latitude *32.76012* Longitude *103.48457*

NATURE OF RELEASE

Type of Release <i>leak</i> produced water	Volume of Release <i>30 bbl</i>	Volume Recovered <i>30 bbl</i>
Source of Release <i>LINE FAILURE</i>	Date and Hour of Occurrence <i>4-24</i>	Date and Hour of Discovery <i>4-26-18</i>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

RECEIVED
By Olivia Yu at 2:23 pm, May 11, 2018

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
SEAL ON PUMP WENT OUT CAUSING PRESSURE BUILD UP & LINE FAILURE INSIDE DYKE & LINER

Describe Area Affected and Cleanup Action Taken.*
INSIDE THE LINER

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

Signature: <i>J. Sayre</i>	OIL CONSERVATION DIVISION	
Printed Name: <i>JIM SAYRE</i>	Approved by Environmental Specialist:	
Title: <i>MANAGER</i>	Approval Date: 5/11/2018	Expiration Date:
E-mail Address: <i>jim@the-standard-energy.com</i>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <i>5-4-18</i> Phone:	<p>see attached directive for historical impacted areas on location. Please inspect liner in question. Provide NMOCD with a concise report of the inspection with affirmation the liner has and will continue to contain liquids.</p>	

1RP-5056

nOY1813152090

pOY1813152414

* Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 5/11/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1RP-5056 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 1 office in Hobbs on or before 6/11/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Appendix F

Analytical Laboratory Reports

February 19, 2019

JIM SAYRE

BUCKEYE DISPOSAL, LLC

P. O. BOX 513

HOBBS, NM 88241

RE: BUCKEYE

Enclosed are the results of analyses for samples received by the laboratory on 02/15/19 8:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 BUCKEYE DISPOSAL, LLC
 JIM SAYRE
 P. O. BOX 513
 HOBBS NM, 88241
 Fax To: UNK-NOWN

 Received: 02/15/2019
 Reported: 02/19/2019
 Project Name: BUCKEYE
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 02/14/2019
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: DRAW SOUTH 14" (H900609-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	02/19/2019	ND	432	108	400	0.00	

Sample ID: NORTH EAST CORNER 16" (H900609-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	02/19/2019	ND	432	108	400	0.00	

Sample ID: SOUTH EAST CORNER 16" (H900609-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	02/19/2019	ND	432	108	400	0.00	

Sample ID: DRAW SOUTHEAST 16" (H900609-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	02/19/2019	ND	432	108	400	0.00	

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BUCKEYE DISPOSAL, LLC
 JIM SAYRE
 P. O. BOX 513
 HOBBS NM, 88241
 Fax To: UNK-NOWN

 Received: 02/15/2019
 Reported: 02/19/2019
 Project Name: BUCKEYE
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 02/14/2019
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: DRAW SOUTH WEST 18" (H900609-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	02/19/2019	ND	432	108	400	0.00	

Sample ID: NORTH WEST CORNER 36" (H900609-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	02/19/2019	ND	432	108	400	0.00	

Sample ID: NORTH WEST LINER 36" (H900609-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1160	16.0	02/19/2019	ND	432	108	400	0.00	

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

Company Name: <i>Buckeye Disposal</i>		BILL TO				ANALYSIS REQUEST																			
Project Manager: <i>JIM SAYRE</i>		P.O. #:																							
Address: <i>PO Box 513</i>		Company:																							
City: <i>Hobbs</i> State: <i>NM</i> Zip: <i>88240</i>		Attn:																							
Phone #: <i>575-361-5072</i> Fax #: <i>575-393-8352</i>		Address:																							
Project #: Project Owner:		City:																							
Project Name:		State: Zip:																							
Project Location: <i>Buckeye</i>		Phone #:																							
Sampler Name: <i>JIM SAYRE</i>		Fax #:																							
FOR LAB USE ONLY																									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING													
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME											
<i>H900609</i>																									
	<i>1 Draw South 14"</i>	<i>G</i>	<i>1</i>			<input checked="" type="checkbox"/>							<i>2-14-19</i>	<i>17:30</i>	<input checked="" type="checkbox"/>										
	<i>2 North East Corner 16"</i>																								
	<i>3 South East Corner 16"</i>																								
	<i>4 Draw South East 16"</i>																								
	<i>5 Draw South West 18"</i>																								
	<i>6 North West Corner 36"</i>																								
	<i>7 North West Liner 36"</i>																								

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>J.D. Sayre</i>	Date: <i>2-15-19</i>	Received By: <i>Jamara Oldat Key</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>0805</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: (Initials) <i>J.S.</i>	OGD Ex. 17-062 <i>JIM@thestandardenergy.com</i>	

December 07, 2023

JACK YATES

STANDARD ENERGY SERVICES

P. O. BOX 2724

LUBBOCK, TX 79408

RE: AF

Enclosed are the results of analyses for samples received by the laboratory on 12/04/23 9:22.

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

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01 2FT	H236486-01	Soil	01-Dec-23 06:00	04-Dec-23 09:22
02 2FT	H236486-02	Soil	01-Dec-23 06:00	04-Dec-23 09:22
02 4FT	H236486-03	Soil	01-Dec-23 06:00	04-Dec-23 09:22
03 2FT	H236486-04	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 04 2FT	H236486-05	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 05 2FT	H236486-06	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 06 2FT	H236486-07	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 07 2FT	H236486-08	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 08 (2FT)	H236486-09	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 09 4FT	H236486-10	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 09 2FT	H236486-11	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 10 2FT	H236486-12	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 11 2FT	H236486-13	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 12 2FT	H236486-14	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 12 4FT	H236486-15	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 13 2FT	H236486-16	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 14 4FT	H236486-17	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 15 2FT	H236486-18	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 16 2FT	H236486-19	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 16 4FT	H236486-20	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 17 2FT	H236486-21	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 14 2FT	H236486-22	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 17 @ 4FT	H236486-23	Soil	01-Dec-23 06:00	04-Dec-23 09:22

12/07/23 - All sample jars had headspace. BTEX and TPH results may be biased low.

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

01 2FT
H236486-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	5840		16.0	mg/kg	4	3120512	AC	05-Dec-23	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			119 %		71.5-134	3120424	JH/	05-Dec-23	8021B	
--	--	--	-------	--	----------	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	
DRO >C10-C28*	801		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	286		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			82.0 %		48.2-134	3120427	MS	05-Dec-23	8015B	
----------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			97.5 %		49.1-148	3120427	MS	05-Dec-23	8015B	
--------------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

02 2FT
H236486-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	368		16.0	mg/kg	4	3120512	AC	05-Dec-23	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134 3120424 JH/ 05-Dec-23 8021B

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane 76.3 % 48.2-134 3120427 MS 05-Dec-23 8015B

Surrogate: 1-Chlorooctadecane 75.5 % 49.1-148 3120427 MS 05-Dec-23 8015B

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

02 4FT
H236486-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	80.0		16.0	mg/kg	4	3120512	AC	05-Dec-23	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			114 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
--	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			84.9 %	48.2-134		3120427	MS	05-Dec-23	8015B	
----------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			85.8 %	49.1-148		3120427	MS	05-Dec-23	8015B	
--------------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

03 2FT
H236486-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	5600		16.0	mg/kg	4	3120512	AC	05-Dec-23	4500-CI-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	0.269		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			125 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
--	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	51.6		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	
DRO >C10-C28*	1930		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	408		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.2 %	48.2-134		3120427	MS	05-Dec-23	8015B	
----------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			107 %	49.1-148		3120427	MS	05-Dec-23	8015B	
--------------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 04 2FT
H236486-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	528		16.0	mg/kg	4	3120512	AC	05-Dec-23	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			118 %		71.5-134	3120424	JH/	05-Dec-23	8021B	
--	--	--	-------	--	----------	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	
DRO >C10-C28*	87.4		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	70.3		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			76.9 %		48.2-134	3120427	MS	05-Dec-23	8015B	
----------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			76.0 %		49.1-148	3120427	MS	05-Dec-23	8015B	
--------------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 05 2FT
H236486-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	160		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
----------	-----	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			115 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
---------------------------------------	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane			72.9 %	48.2-134		3120428	MS	05-Dec-23	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			65.7 %	49.1-148		3120428	MS	05-Dec-23	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 06 2FT
H236486-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	1300		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			115 %		71.5-134	3120424	JH/	05-Dec-23	8021B	
--	--	--	-------	--	----------	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			75.7 %		48.2-134	3120428	MS	05-Dec-23	8015B	
----------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			66.6 %		49.1-148	3120428	MS	05-Dec-23	8015B	
--------------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 07 2FT
H236486-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	1380		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-CI-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
---------------------------------------	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane			87.1 %	48.2-134		3120428	MS	05-Dec-23	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			80.2 %	49.1-148		3120428	MS	05-Dec-23	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 08 (2FT)
H236486-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	1150		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			115 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
--	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			69.1 %	48.2-134		3120428	MS	05-Dec-23	8015B	
----------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			62.1 %	49.1-148		3120428	MS	05-Dec-23	8015B	
--------------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 09 4FT
H236486-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
---------------------------------------	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane			76.1 %	48.2-134		3120428	MS	05-Dec-23	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			68.9 %	49.1-148		3120428	MS	05-Dec-23	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 09 2FT
H236486-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			115 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
---------------------------------------	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane			88.7 %	48.2-134		3120428	MS	05-Dec-23	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			80.8 %	49.1-148		3120428	MS	05-Dec-23	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 10 2FT
H236486-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			116 %		71.5-134	3120424	JH/	05-Dec-23	8021B	
--	--	--	-------	--	----------	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.4 %		48.2-134	3120428	MS	05-Dec-23	8015B	
----------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			78.1 %		49.1-148	3120428	MS	05-Dec-23	8015B	
--------------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 11 2FT
H236486-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	288		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
----------	-----	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
---------------------------------------	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane			82.8 %	48.2-134		3120428	MS	05-Dec-23	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			75.4 %	49.1-148		3120428	MS	05-Dec-23	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 12 2FT
H236486-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	2400		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-CI-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134 3120424 JH/ 05-Dec-23 8021B

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	289		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	165		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane 82.3 % 48.2-134 3120428 MS 05-Dec-23 8015B

Surrogate: 1-Chlorooctadecane 80.7 % 49.1-148 3120428 MS 05-Dec-23 8015B

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 12 4FT
H236486-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	1360		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
---------------------------------------	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane			82.5 %	48.2-134		3120428	MS	05-Dec-23	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			75.3 %	49.1-148		3120428	MS	05-Dec-23	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 13 2FT
H236486-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	96.0		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
--	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			77.1 %	48.2-134		3120428	MS	05-Dec-23	8015B	
----------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			70.2 %	49.1-148		3120428	MS	05-Dec-23	8015B	
--------------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 14 4FT
H236486-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	496		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-CI-B	
----------	-----	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
---------------------------------------	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane			71.1 %	48.2-134		3120428	MS	05-Dec-23	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			63.3 %	49.1-148		3120428	MS	05-Dec-23	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 15 2FT
H236486-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	160		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-CI-B	
----------	-----	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
---------------------------------------	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane			73.2 %	48.2-134		3120428	MS	05-Dec-23	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			65.6 %	49.1-148		3120428	MS	05-Dec-23	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 16 2FT
H236486-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	3040		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			115 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
---------------------------------------	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane			73.8 %	48.2-134		3120501	MS	05-Dec-23	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			64.8 %	49.1-148		3120501	MS	05-Dec-23	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 16 4FT
H236486-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	1410		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120435	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134 3120435 JH/ 05-Dec-23 8021B

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane 77.6 % 48.2-134 3120501 MS 05-Dec-23 8015B

Surrogate: 1-Chlorooctadecane 68.9 % 49.1-148 3120501 MS 05-Dec-23 8015B

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 17 2FT
H236486-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	672		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120435	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134 3120435 JH/ 05-Dec-23 8021B

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane 60.2 % 48.2-134 3120501 MS 05-Dec-23 8015B

Surrogate: 1-Chlorooctadecane 52.9 % 49.1-148 3120501 MS 05-Dec-23 8015B

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 14 2FT
H236486-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	352		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120435	JH/	05-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			118 %		71.5-134	3120435	JH/	05-Dec-23	8021B	
--	--	--	-------	--	----------	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			63.2 %		48.2-134	3120501	MS	05-Dec-23	8015B	
----------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			55.1 %		49.1-148	3120501	MS	05-Dec-23	8015B	
--------------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 17 @ 4FT
H236486-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	640		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120435	JH/	05-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			119 %		71.5-134	3120435	JH/	05-Dec-23	8021B	
--	--	--	-------	--	----------	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	
DRO >C10-C28*	68.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	12.5		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			63.9 %		48.2-134	3120501	MS	05-Dec-23	8015B	
----------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			58.4 %		49.1-148	3120501	MS	05-Dec-23	8015B	
--------------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3120512 - 1:4 DI Water										
Blank (3120512-BLK1)										
Prepared & Analyzed: 05-Dec-23										
Chloride	ND	16.0	mg/kg							
LCS (3120512-BS1)										
Prepared & Analyzed: 05-Dec-23										
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (3120512-BSD1)										
Prepared & Analyzed: 05-Dec-23										
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
Batch 3120521 - 1:4 DI Water										
Blank (3120521-BLK1)										
Prepared & Analyzed: 05-Dec-23										
Chloride	ND	16.0	mg/kg							
LCS (3120521-BS1)										
Prepared & Analyzed: 05-Dec-23										
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (3120521-BSD1)										
Prepared & Analyzed: 05-Dec-23										
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

Volatile Organic Compounds by EPA Method 8021 - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3120424 - Volatiles
Blank (3120424-BLK1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0581</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>116</i>	<i>71.5-134</i>			

LCS (3120424-BS1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

Benzene	1.99	0.050	mg/kg	2.00		99.3	82.8-130			
Toluene	2.10	0.050	mg/kg	2.00		105	86-128			
Ethylbenzene	2.10	0.050	mg/kg	2.00		105	85.9-128			
m,p-Xylene	4.25	0.100	mg/kg	4.00		106	89-129			
o-Xylene	2.09	0.050	mg/kg	2.00		104	86.1-125			
Total Xylenes	6.34	0.150	mg/kg	6.00		106	88.2-128			
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0540</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>108</i>	<i>71.5-134</i>			

LCS Dup (3120424-BS1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

Benzene	1.91	0.050	mg/kg	2.00		95.3	82.8-130	4.07	15.8	
Toluene	2.03	0.050	mg/kg	2.00		102	86-128	3.24	15.9	
Ethylbenzene	2.03	0.050	mg/kg	2.00		101	85.9-128	3.44	16	
m,p-Xylene	4.12	0.100	mg/kg	4.00		103	89-129	3.16	16.2	
o-Xylene	2.02	0.050	mg/kg	2.00		101	86.1-125	3.35	16.7	
Total Xylenes	6.13	0.150	mg/kg	6.00		102	88.2-128	3.22	16.3	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0540</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>108</i>	<i>71.5-134</i>			

Batch 3120435 - Volatiles
Blank (3120435-BLK1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

Volatile Organic Compounds by EPA Method 8021 - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3120435 - Volatiles
Blank (3120435-BLK1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0600		mg/kg	0.0500		120	71.5-134			

LCS (3120435-BS1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

Benzene	1.77	0.050	mg/kg	2.00		88.7	82.8-130			
Toluene	1.89	0.050	mg/kg	2.00		94.4	86-128			
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.3	85.9-128			
m,p-Xylene	3.90	0.100	mg/kg	4.00		97.4	89-129			
o-Xylene	1.90	0.050	mg/kg	2.00		94.8	86.1-125			
Total Xylenes	5.79	0.150	mg/kg	6.00		96.5	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0577		mg/kg	0.0500		115	71.5-134			

LCS Dup (3120435-BSD1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

Benzene	1.99	0.050	mg/kg	2.00		99.5	82.8-130	11.4	15.8	
Toluene	2.10	0.050	mg/kg	2.00		105	86-128	10.8	15.9	
Ethylbenzene	2.13	0.050	mg/kg	2.00		107	85.9-128	11.1	16	
m,p-Xylene	4.35	0.100	mg/kg	4.00		109	89-129	11.1	16.2	
o-Xylene	2.12	0.050	mg/kg	2.00		106	86.1-125	11.2	16.7	
Total Xylenes	6.47	0.150	mg/kg	6.00		108	88.2-128	11.1	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0574		mg/kg	0.0500		115	71.5-134			

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

Petroleum Hydrocarbons by GC FID - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3120427 - General Prep - Organics
Blank (3120427-BLK1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
<i>Surrogate: 1-Chlorooctane</i>	50.3		mg/kg	50.0		101	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	52.1		mg/kg	50.0		104	49.1-148			

LCS (3120427-BS1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

GRO C6-C10	191	10.0	mg/kg	200		95.4	66.4-123			
DRO >C10-C28	183	10.0	mg/kg	200		91.4	66.5-118			
Total TPH C6-C28	374	10.0	mg/kg	400		93.4	77.6-123			
<i>Surrogate: 1-Chlorooctane</i>	50.3		mg/kg	50.0		101	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	53.6		mg/kg	50.0		107	49.1-148			

LCS Dup (3120427-BSD1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

GRO C6-C10	190	10.0	mg/kg	200		95.0	66.4-123	0.433	17.7	
DRO >C10-C28	180	10.0	mg/kg	200		90.1	66.5-118	1.41	21	
Total TPH C6-C28	370	10.0	mg/kg	400		92.5	77.6-123	0.912	18.5	
<i>Surrogate: 1-Chlorooctane</i>	51.4		mg/kg	50.0		103	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	52.7		mg/kg	50.0		105	49.1-148			

Batch 3120428 - General Prep - Organics
Blank (3120428-BLK1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
<i>Surrogate: 1-Chlorooctane</i>	46.4		mg/kg	50.0		92.7	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	44.8		mg/kg	50.0		89.6	49.1-148			

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

Petroleum Hydrocarbons by GC FID - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3120428 - General Prep - Organics
LCS (3120428-BS1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

GRO C6-C10	177	10.0	mg/kg	200		88.4	66.4-123			
DRO >C10-C28	182	10.0	mg/kg	200		91.2	66.5-118			
Total TPH C6-C28	359	10.0	mg/kg	400		89.8	77.6-123			
Surrogate: 1-Chlorooctane	48.3		mg/kg	50.0		96.7	48.2-134			
Surrogate: 1-Chlorooctadecane	46.1		mg/kg	50.0		92.2	49.1-148			

LCS Dup (3120428-BSD1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

GRO C6-C10	184	10.0	mg/kg	200		92.0	66.4-123	3.93	17.7	
DRO >C10-C28	182	10.0	mg/kg	200		90.9	66.5-118	0.323	21	
Total TPH C6-C28	366	10.0	mg/kg	400		91.5	77.6-123	1.80	18.5	
Surrogate: 1-Chlorooctane	51.2		mg/kg	50.0		102	48.2-134			
Surrogate: 1-Chlorooctadecane	52.1		mg/kg	50.0		104	49.1-148			

Batch 3120501 - General Prep - Organics
Blank (3120501-BLK1)

Prepared & Analyzed: 05-Dec-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	43.4		mg/kg	50.0		86.7	48.2-134			
Surrogate: 1-Chlorooctadecane	39.6		mg/kg	50.0		79.3	49.1-148			

LCS (3120501-BS1)

Prepared & Analyzed: 05-Dec-23

GRO C6-C10	205	10.0	mg/kg	200		102	66.4-123			
DRO >C10-C28	174	10.0	mg/kg	200		87.2	66.5-118			
Total TPH C6-C28	379	10.0	mg/kg	400		94.8	77.6-123			
Surrogate: 1-Chlorooctane	47.2		mg/kg	50.0		94.4	48.2-134			
Surrogate: 1-Chlorooctadecane	45.8		mg/kg	50.0		91.6	49.1-148			

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

Petroleum Hydrocarbons by GC FID - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3120501 - General Prep - Organics
LCS Dup (3120501-BSD1)

Prepared & Analyzed: 05-Dec-23

GRO C6-C10	202	10.0	mg/kg	200		101	66.4-123	1.65	17.7	
DRO >C10-C28	178	10.0	mg/kg	200		89.2	66.5-118	2.29	21	
Total TPH C6-C28	380	10.0	mg/kg	400		95.0	77.6-123	0.181	18.5	
<i>Surrogate: 1-Chlorooctane</i>	<i>45.2</i>		<i>mg/kg</i>	<i>50.0</i>		<i>90.5</i>	<i>48.2-134</i>			
<i>Surrogate: 1-Chlorooctadecane</i>	<i>43.6</i>		<i>mg/kg</i>	<i>50.0</i>		<i>87.2</i>	<i>49.1-148</i>			

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

HDSP-1	Sample container had headspace. Results may be biased low.
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

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Stated Energy Services</u>				BILL TO				ANALYSIS REQUEST																			
Project Manager: <u>Seck Yats</u>				P.O. #:																							
Address: <u>816 W County Road</u>				Company: <u>Same</u>																							
City: <u>Hobbs</u>		State: <u>NM</u>		Zip: <u>88240</u>		Attn:																					
Phone #: <u>806-241-705</u>		Fax #:		Address:																							
Project #: <u>1</u>		Project Owner: <u>Picker Bagg</u>		City:																							
Project Name: <u>AF</u>				State:		Zip:																					
Project Location: <u>SUD</u>				Phone #:																							
Sampler Name: <u>David Ortega</u>				Fax #:																							
FOR LAB USE ONLY																											
#236486																											
Lab I.D.		Sample I.D.																									
		(GRAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING																	
		GROUNDWATER	WASTEWATER	SOIL		OIL		SLUDGE	OTHER:	ACID/BASE:		ICE / COOL		OTHER:		DATE	TIME										

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated remedies or otherwise.

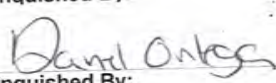
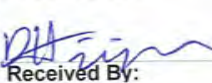
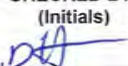
Relinquished By: <u>David Ortega</u>		Date: <u>12/4/23</u>		Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:					
		Time: <u>9:22</u>				All Results are emailed. Please provide Email address:					
Relinquished By:		Date:		Received By:		REMARKS: <u>Customer aware of sample jars 12/4/23</u> <u>dirty filling All containers have head space DA</u> <u>2.0</u>					
		Time:									
Delivered By: (Circle One)		Observed Temp. °C <u>2.40</u>		Sample Condition		CHECKED BY: (Initials) <u>DA</u>		Turnaround Time: Standard <input type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
				Yes <input type="checkbox"/> No <input type="checkbox"/>						Observed Temp. °C	
				No <input type="checkbox"/> No <input type="checkbox"/>						Corrected Temp. °C	
								Thermometer ID #140			
								Correction Factor 0°C			

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Company Name: Standard Energy Services Project Manager: Scott Yorks Address: 816 W Canty Road City: Hobbs State: NM Zip: 88240 Phone #: 806-241-7405 Fax #: Project #: 1 Project Owner: Project Name: AF Project Location: SWD Sampler Name: David Ortega				BILL TO				ANALYSIS REQUEST											
				P.O. #:															
				Company: Same															
				Attn:															
				Address:															
				City:															
				State: Zip:															
				Phone #:															
				Fax #:															

FOR LAB USE ONLY		# CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME
Lab I.D.	Sample I.D.		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :			
H236486														
12 AF 10	2 FT			/								12-1-23	6am	
13 AF 11	2 FT			/										
14 AF 12	2 FT			/										
15 AF 12	4 FT			/										
16 AF 13	2 FT			/										
17 AF 14	4 FT			/										
18 AF 15	2 FT			/										
19 AF 16	2 FT			/										
20 AF 16	4 FT			/										
21 AF 17	2 FT			/										
22 AF 14	2 FT			/										

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:  Relinquished By:	Date: 12/4/23 Time: 9:22	Received By:  Received By:	Date: Time:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: REMARKS:
Delivered By: (Circle One)	Observed Temp. °C 2.49 Corrected Temp. °C	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) 	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C

January 30, 2025

JOHN AYARBE

Daniel B. Stephens & Associates, Inc.

6020 Academy Rd NE, Suite 100

Albuquerque, NM 87109

RE: BUCKEYE STATE AF #003

Enclosed are the results of analyses for samples received by the laboratory on 01/28/25 11:36.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Daniel B. Stephens & Associates, Inc.
 JOHN AYARBE
 6020 Academy Rd NE, Suite 100
 Albuquerque NM, 87109
 Fax To: (505) 822-8877

Received:	01/28/2025	Sampling Date:	01/28/2025
Reported:	01/30/2025	Sampling Type:	Soil
Project Name:	BUCKEYE STATE AF #003	Sampling Condition:	** (See Notes)
Project Number:	BUCKEYE STATE AF	Sample Received By:	Tamara Oldaker
Project Location:	STANDARD OIL - BUCKEYE , NM		

Sample ID: NORTH EXPLORATORY EXCAVATION 0-2' (H250488-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2025	ND	1.98	99.0	2.00	2.78	
Toluene*	<0.050	0.050	01/29/2025	ND	2.07	104	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/29/2025	ND	2.00	99.9	2.00	2.05	
Total Xylenes*	<0.150	0.150	01/29/2025	ND	5.88	98.0	6.00	1.79	
Total BTEX	<0.300	0.300	01/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	01/29/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2025	ND	224	112	200	14.8	
DRO >C10-C28*	<10.0	10.0	01/28/2025	ND	236	118	200	16.2	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.4 % 49.1-148

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Daniel B. Stephens & Associates, Inc.
 JOHN AYARBE
 6020 Academy Rd NE, Suite 100
 Albuquerque NM, 87109
 Fax To: (505) 822-8877

Received:	01/28/2025	Sampling Date:	01/28/2025
Reported:	01/30/2025	Sampling Type:	Soil
Project Name:	BUCKEYE STATE AF #003	Sampling Condition:	** (See Notes)
Project Number:	BUCKEYE STATE AF	Sample Received By:	Tamara Oldaker
Project Location:	STANDARD OIL - BUCKEYE , NM		

Sample ID: NORTH EXPLORATORY EXCAVATION 2'-4' (H250488-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2025	ND	1.98	99.0	2.00	2.78	
Toluene*	<0.050	0.050	01/29/2025	ND	2.07	104	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/29/2025	ND	2.00	99.9	2.00	2.05	
Total Xylenes*	<0.150	0.150	01/29/2025	ND	5.88	98.0	6.00	1.79	
Total BTEX	<0.300	0.300	01/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	01/29/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2025	ND	224	112	200	14.8	
DRO >C10-C28*	<10.0	10.0	01/28/2025	ND	236	118	200	16.2	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Daniel B. Stephens & Associates, Inc.
 JOHN AYARBE
 6020 Academy Rd NE, Suite 100
 Albuquerque NM, 87109
 Fax To: (505) 822-8877

Received:	01/28/2025	Sampling Date:	01/28/2025
Reported:	01/30/2025	Sampling Type:	Soil
Project Name:	BUCKEYE STATE AF #003	Sampling Condition:	** (See Notes)
Project Number:	BUCKEYE STATE AF	Sample Received By:	Tamara Oldaker
Project Location:	STANDARD OIL - BUCKEYE , NM		

Sample ID: NORTH EXPLORATORY EXCAVATION 4'-6' (H250488-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2025	ND	1.98	99.0	2.00	2.78	
Toluene*	<0.050	0.050	01/29/2025	ND	2.07	104	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/29/2025	ND	2.00	99.9	2.00	2.05	
Total Xylenes*	<0.150	0.150	01/29/2025	ND	5.88	98.0	6.00	1.79	
Total BTEX	<0.300	0.300	01/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	01/29/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2025	ND	224	112	200	14.8	
DRO >C10-C28*	<10.0	10.0	01/28/2025	ND	236	118	200	16.2	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Daniel B. Stephens & Associates, Inc.
 JOHN AYARBE
 6020 Academy Rd NE, Suite 100
 Albuquerque NM, 87109
 Fax To: (505) 822-8877

Received:	01/28/2025	Sampling Date:	01/28/2025
Reported:	01/30/2025	Sampling Type:	Soil
Project Name:	BUCKEYE STATE AF #003	Sampling Condition:	** (See Notes)
Project Number:	BUCKEYE STATE AF	Sample Received By:	Tamara Oldaker
Project Location:	STANDARD OIL - BUCKEYE , NM		

Sample ID: SOUTH EXPLORATORY EXCAVATION 0-2' (H250488-04)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/29/2025	ND	1.98	99.0	2.00	2.78		
Toluene*	<0.050	0.050	01/29/2025	ND	2.07	104	2.00	2.39	GC-NC	
Ethylbenzene*	<0.050	0.050	01/29/2025	ND	2.00	99.9	2.00	2.05	GC-NC	
Total Xylenes*	<0.150	0.150	01/29/2025	ND	5.88	98.0	6.00	1.79	GC-NC	
Total BTEX	<0.300	0.300	01/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 264 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4400	16.0	01/29/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	338	10.0	01/28/2025	ND	224	112	200	14.8		
DRO >C10-C28*	3700	10.0	01/28/2025	ND	236	118	200	16.2		
EXT DRO >C28-C36	674	10.0	01/28/2025	ND						

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 151 % 49.1-148

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Daniel B. Stephens & Associates, Inc.
 JOHN AYARBE
 6020 Academy Rd NE, Suite 100
 Albuquerque NM, 87109
 Fax To: (505) 822-8877

Received:	01/28/2025	Sampling Date:	01/28/2025
Reported:	01/30/2025	Sampling Type:	Soil
Project Name:	BUCKEYE STATE AF #003	Sampling Condition:	** (See Notes)
Project Number:	BUCKEYE STATE AF	Sample Received By:	Tamara Oldaker
Project Location:	STANDARD OIL - BUCKEYE , NM		

Sample ID: SOUTH EXPLORATORY EXCAVATION 2'-4' (H250488-05)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/29/2025	ND	1.98	99.0	2.00	2.78		
Toluene*	<0.050	0.050	01/29/2025	ND	2.07	104	2.00	2.39	GC-NC	
Ethylbenzene*	<0.050	0.050	01/29/2025	ND	2.00	99.9	2.00	2.05	GC-NC	
Total Xylenes*	<0.150	0.150	01/29/2025	ND	5.88	98.0	6.00	1.79	GC-NC	
Total BTEX	<0.300	0.300	01/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 353 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	01/29/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	299	10.0	01/28/2025	ND	224	112	200	14.8		
DRO >C10-C28*	5440	10.0	01/28/2025	ND	236	118	200	16.2		
EXT DRO >C28-C36	979	10.0	01/28/2025	ND						

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 171 % 49.1-148

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Daniel B. Stephens & Associates, Inc.
 JOHN AYARBE
 6020 Academy Rd NE, Suite 100
 Albuquerque NM, 87109
 Fax To: (505) 822-8877

Received:	01/28/2025	Sampling Date:	01/28/2025
Reported:	01/30/2025	Sampling Type:	Soil
Project Name:	BUCKEYE STATE AF #003	Sampling Condition:	** (See Notes)
Project Number:	BUCKEYE STATE AF	Sample Received By:	Tamara Oldaker
Project Location:	STANDARD OIL - BUCKEYE , NM		

Sample ID: SOUTH EXPLORATORY EXCAVATION 4'-6' (H250488-06)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/29/2025	ND	1.98	99.0	2.00	2.78		
Toluene*	<0.050	0.050	01/29/2025	ND	2.07	104	2.00	2.39	GC-NC	
Ethylbenzene*	<0.050	0.050	01/29/2025	ND	2.00	99.9	2.00	2.05	GC-NC	
Total Xylenes*	<0.150	0.150	01/29/2025	ND	5.88	98.0	6.00	1.79	GC-NC	
Total BTEX	<0.300	0.300	01/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 403 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	01/29/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	748	100	01/29/2025	ND	224	112	200	14.8		
DRO >C10-C28*	10900	100	01/29/2025	ND	236	118	200	16.2		
EXT DRO >C28-C36	2320	100	01/29/2025	ND						

Surrogate: 1-Chlorooctane 171 % 48.2-134

Surrogate: 1-Chlorooctadecane 257 % 49.1-148

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Daniel B. Stephens & Associates, Inc.
 JOHN AYARBE
 6020 Academy Rd NE, Suite 100
 Albuquerque NM, 87109
 Fax To: (505) 822-8877

Received:	01/28/2025	Sampling Date:	01/28/2025
Reported:	01/30/2025	Sampling Type:	Soil
Project Name:	BUCKEYE STATE AF #003	Sampling Condition:	** (See Notes)
Project Number:	BUCKEYE STATE AF	Sample Received By:	Tamara Oldaker
Project Location:	STANDARD OIL - BUCKEYE , NM		

Sample ID: SOUTH EXPLORATORY EXCAVATION 6'-8' (H250488-07)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/29/2025	ND	1.98	99.0	2.00	2.78		
Toluene*	<0.050	0.050	01/29/2025	ND	2.07	104	2.00	2.39		
Ethylbenzene*	<0.050	0.050	01/29/2025	ND	2.00	99.9	2.00	2.05	GC-NC	
Total Xylenes*	<0.150	0.150	01/29/2025	ND	5.88	98.0	6.00	1.79	GC-NC	
Total BTEX	<0.300	0.300	01/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 166 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	01/29/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	103	10.0	01/28/2025	ND	224	112	200	14.8		
DRO >C10-C28*	3150	10.0	01/28/2025	ND	236	118	200	16.2		
EXT DRO >C28-C36	606	10.0	01/28/2025	ND						

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 163 % 49.1-148

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-04 The RPD for the BS/BSD was outside of historical limits.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
- 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



Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

Company Name: Daniel B. Stephens & Associates, Inc.		BILL TO		ANALYSIS REQUEST																
Project Manager: John Ayarbe		P.O. #:		TPH GRO/DRO/MRO EPA MOD. 8015 BTEX 8021 B Chloride SM 4500 CL-B																
Address: 6020 Academy NE Suite 100		Company:																		
City: Albuquerque State: NM Zip: 87109		Attn:																		
Phone #: 505 822 9400 Fax #: N/A		Address:																		
Project #: Buckeye State AF Project Owner: Standard Oil Co		City:																		
Project Name: Buckeye State AF # 003		State: Zip:																		
Project Location: Buckeye New Mexico		Phone #: Fax #:																		
Sampler Name: CM Barnhill, Pt		Fax #:																		
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G/RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING								
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME					
	A250488	North Exploratory excavation 0'-2'	6	2			X				X		01/28/25	0811	X	X	X			
	1	North Exploratory excavation 2'-4'	6	2			X				X		01/28/25	0825	X	X	X			
	2	North Exploratory excavation 4'-6'	6	2			X				X		01/28/25	0818	X	X	X			
	3	South Exploratory excavation 0'-2'	6	2			X				X		01/28/24	0937	X	X	X			
	4	South Exploratory excavation 2'-4'	6	2			X				X		01/28/24	0946	X	X	X			
	5	South Exploratory excavation 4'-6'	6	2			X				X		01/28/24	0954	X	X	X			
	6	South Exploratory excavation 6'-8'	6	2			X				X		01/28/24	10:24	X	X	X			
	7																			

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>[Signature]</i>	Date: 01/28/25	Received By: <i>[Signature]</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 11:36			All Results are emailed. Please provide Email address:	
Relinquished By:	Date:	Received By:	jayarbe@geo-logic.com	
Time:			REMARKS: 48 hour turn-around time	
Delivered By: (Circle One)	Observed Temp. °C: 12.1	Sample Condition: Cool Intact <input checked="" type="checkbox"/>	Turnaround Time: 48 hour	Bacteria (only) Cool Intact <input checked="" type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C: 11.5	<input type="checkbox"/> Yes <input type="checkbox"/> No	Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	Observed Temp. °C
			Thermometer ID #140	<input type="checkbox"/> Yes <input type="checkbox"/> No
			Correction Factor -0.6°C	Corrected Temp. °C

Appendix G

DBS&A

Historical Aerial

Photograph Review

Memorandum

To: John Ayarbe

Date: January 31, 2024

From: Jessica Myers

Subject: Buckeye State AF #003, NMSLO Areas of Concern

On August 30, 2023, the New Mexico State Land Office (NMSLO) denied a Remediation Plan submitted for Buckeye State AF #003 dated August 25, 2023, stating that a revised plan must be submitted. This denial included several site maps that outlined “applicable areas needing further investigation, remediation, and reclamation” over recent aerial imagery dated June 2023. Attached to this memorandum are two maps showing these outlined areas over aerial imagery dated 1996, which is before the client leased the property. This memorandum compares the areas of concern between these two dates.

NMSLO identified seven areas of concern in the northern area of the property, around the location of the pad for the former salt water disposal well. The first area is the farthest northwest of the areas, and is located in the center of a disturbed zone that is an offshoot of the main disturbed area around the well pad. In the 1996 aerial photograph, that disturbed zone is present and larger than it is in the 2023 aerial photograph. The second area is the farthest northeast, and encompasses a smaller area of disturbed soil; however, most of the area is vegetated. In the 1996 aerial photograph, the area fully contains disturbed soil. The third area is located in the north-central part of the well pad and appears fully disturbed. The area is also fully disturbed in the 1996 aerial photograph. The fourth area is located around the southeast corner of the well pad area, and covers a mostly disturbed area including a road. In the 1996 aerial photograph, the entire top half of the area is disturbed, while the road is also visible in the bottom half. The fifth area is located east of the access road and south of the well pad, and contains vegetation with no disturbed soil. In the 1996 aerial photograph, the area is fully disturbed. The sixth area is located southeast of the fifth area, and contains a small area of disturbed soil next to a road. In the 1996 aerial photograph, the road is present and the area is fully disturbed. The seventh area is west of the access road and south of another road that trends east-west, which appears partially disturbed. In the 1996 aerial photograph, the area is mostly vegetated.

NMSLO identified six more areas in the southern area of the property, around the former tank battery area. The first area is located along the access road north of the former tank battery site, which contains the road and no other disturbed areas. In the 1996 aerial photograph, the area looks the same as it does in the 2023 aerial imagery. The second area is located east of the first area, which contains a larger disturbed area. In the 1996 aerial photograph, this area is more visibly disturbed than it is in the 2023 aerial imagery. The third area is west of the former tank battery location and is mostly covered in vegetation, with two noticeable disturbed patches. In the 1996 aerial photograph, this area is more disturbed than it is in the 2023 aerial photograph. The fourth area is located where the tank battery once was, and is fully disturbed. In the 1996 aerial photograph, this area was also fully disturbed. The fifth area is located directly east of the fourth area and is fully disturbed. This area was also fully disturbed in the 1996 aerial photograph. The sixth area encompasses the part of the property that slopes downward toward a topographic depression and the slope is mostly disturbed, with some vegetation growing on it. In the 1996 aerial photograph, this area is more disturbed and has considerably less vegetation growing on the slope.




Source: Aerial imagery (Google Earth, 1996).



0 100 200 ft



Explanation

 NMSLO area of concern



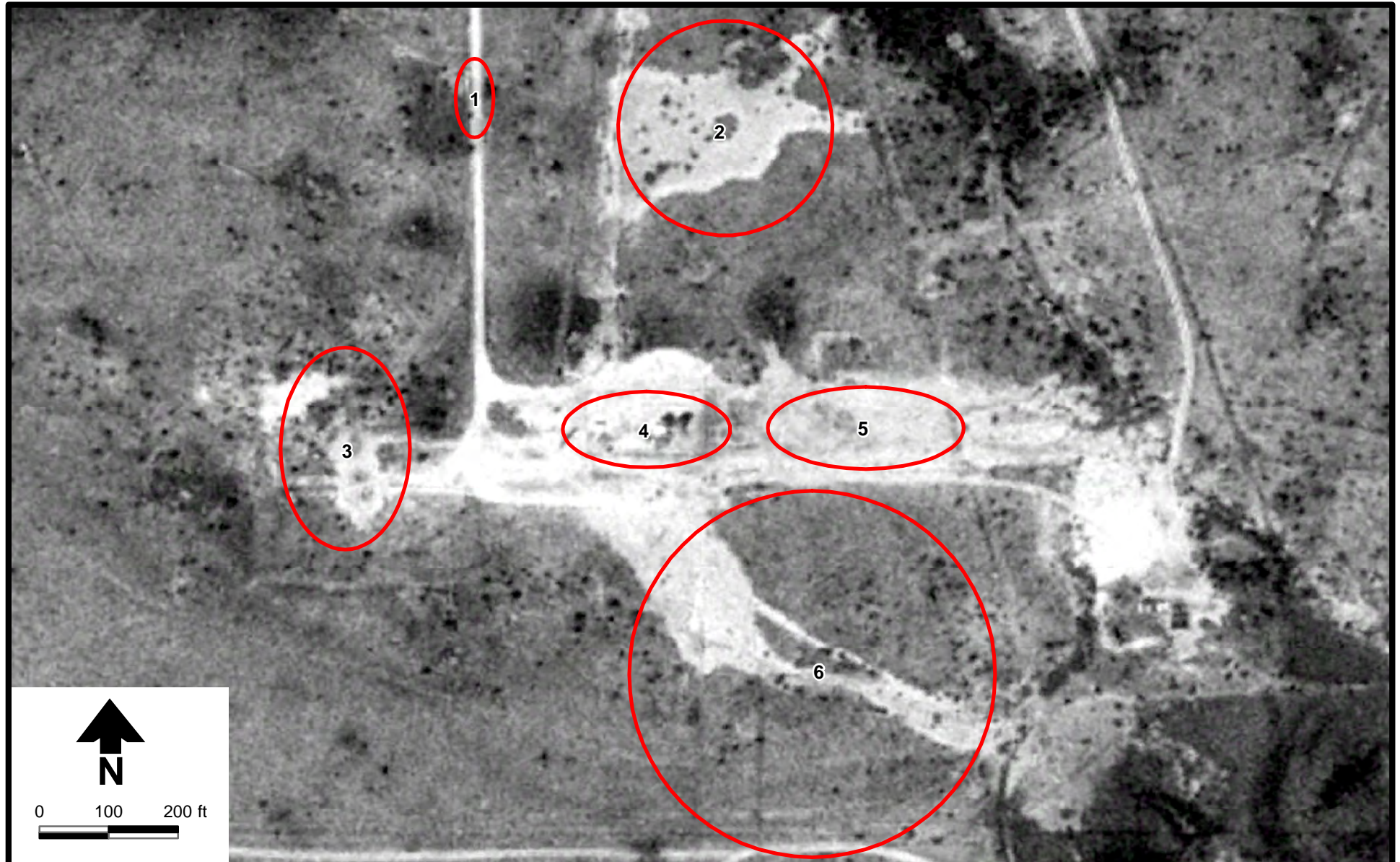
a Geo-Logic Company
DB19.1241

3/19/2024

OCD Ex. 17-111


BUCKEYE STATE AF #003
1996 Historical Imagery
Pad of Former Salt Water Disposal Well

Figure A-1



0 100 200 ft

Explanation

 NMSLO area of concern

Source: Aerial imagery (Google Earth, 1996).

BUCKEYE STATE AF #003

**1996 Historical Imagery
Former Tank Battery Location**

Figure A-2



CAT

CAT

RENTALS

800-777-7777





CAT

323

CAT

WAGNER CAT
RENTALS
503478

FOR
EHT
TOOLS
VICES





























OCD Permitting

Home OCD Review Applications Review Application

Rejected by the OCD Fee [C-141] Release Corrective Action (C-141)

Submission Contact, Application, Fee and Payment Details for Application ID: 451219

[Return to Under OCD Review](#)

First Name: Terry Operator: [\[222759\]](#) BUCKEYE DISPOSAL, L.L.C.
 Last Name: Payton Application Status: Rejected by the OCD
 Email: terry@bergsteinenterprises.com Fee Amount: **\$150.00**
 Pay Amount: \$150.00 Credit Card [CC]

Type	ID	District	County	Location
Incident ID	[nKL1625134663]	Hobbs	Lea	L-08-18S-35E 1980 FSL 990 FWL 32.7605324,-103.4851837 NAD83

Attachment Type (Description) Tag(s)	Original Uploaded File Name
Volume Calculation	Provided in the Proposed Remediation Plan.pdf (35 KB)
Water Sources	Provided in the Proposed Remediation Plan.pdf (35 KB)
Scaled Site Map	Provided in the Proposed Remediation Plan.pdf (35 KB)
Field Data	Provided in the Proposed Remediation Plan.pdf (35 KB)
Soil Contaminant	Provided in the Proposed Remediation Plan.pdf (35 KB)
Water Depth	Provided in the Proposed Remediation Plan.pdf (35 KB)
Boring Logs	Provided in the Proposed Remediation Plan.pdf (35 KB)
Photographs	Binder1_Northern exploratory excavation_01282025.pdf (9400.9 KB)
Photographs	Binder2_Southern exploratory excavation_01282025.pdf (15319.1 KB)
Topo Aerial Maps	Provided in the Proposed Remediation Plan.pdf (35 KB)
Lab Data	Provided in the Proposed Remediation Plan.pdf (35 KB)
Proposed Technique	Proposed Remediation Plan_Buckeye State AF 003_4-11-2025.pdf (11137.9 KB)
Scaled Site Map	Provided in the Proposed Remediation Plan.pdf (35 KB)
Estimated Volume	Provided in the Proposed Remediation Plan.pdf (35 KB)
Closure Criteria	Provided in the Proposed Remediation Plan.pdf (35 KB)
Proposed Schedule	Provided in the Proposed Remediation Plan.pdf (35 KB)
Files: 16 Total Size: 35.5 MB	

Event Dates

Created On: 4/11/2025 2:33 PM
 Modified On: 10/22/2025 8:40 AM

OCD Ex. 17-129 Created By: tpayton
 Modified By: bhall

Incident Operator [222759] BUCKEYE DISPOSAL, L.L.C.
 Incident Type Oil Release
 Incident Status Remediation Plan Received
 Incident Well [30-025-20980] STATE AF #003
 Incident Facility *Unavailable.*

Location of Release Source

Please answer all the questions in this group.

Δ Site Name	STATE AF #003
• Date Release Discovered	08/16/2016
• Surface Owner	State

Incident Details

Please answer all the questions in this group.

- Incident Type **Oil Release**
- Did this release result in a fire or is the result of a fire **No**
- Did this release result in any injuries **No**
- Has this release reached or does it have a reasonable probability of reaching a watercourse **No**
- Has this release endangered or does it have a reasonable probability of endangering public health **No**
- Has this release substantially damaged or will it substantially damage property or the environment **No**
- Is this release of a volume that is or may with reasonable probability be detrimental to fresh water **No**

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

- Crude Oil Released (bbls) Details **Cause: Equipment Failure | Pipeline (Any) | Crude Oil | Released: 15 BBL | Recovered: 14 BBL | Lost: 1 BBL.**
- Produced Water Released (bbls) Details *Not answered.*
- Is the concentration of chloride in the produced water >10,000 mg/l *Not answered.*
- Condensate Released (bbls) Details *Not answered.*
- Natural Gas Vented (Mcf) Details *Not answered.*
- Natural Gas Flared (Mcf) Details *Not answered.*
- Other Released Details *Not answered.*
- Are there **additional details** for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) *Not answered.*

Nature and Volume of Release (continued)

- Is this a gas only submission (i.e. only significant Mcf values reported) **No, according to supplied volumes this does not appear to be a "gas only" report.**
- Was this a major release as defined by Subsection A of 19.15.29.7 NMAC **No**
- Reasons why this would be considered a submission for a notification of a major release **Unavailable.**

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
<input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately	True

If all the actions described above have not been undertaken, explain why Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

<input type="checkbox"/> I hereby agree and sign off to the above statement	Name: Terry Payton Title: Financial Officer Email: terry@bergsteinerenterprises.com Date: 04/11/2025
---	---

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

<input type="checkbox"/> What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
<input type="checkbox"/> What method was used to determine the depth to ground water	NM OSE iWaters Database Search
<input type="checkbox"/> Did this release impact groundwater or surface water	No

What is the minimum distance, between the closest lateral extents of the release and the following surface areas:

<input type="checkbox"/> A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
<input type="checkbox"/> Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 300 and 500 (ft.)
<input type="checkbox"/> An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
<input type="checkbox"/> A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 500 and 1000 (ft.)
<input type="checkbox"/> Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
<input type="checkbox"/> Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
<input type="checkbox"/> A wetland	Between 1000 (ft.) and ½ (mi.)
<input type="checkbox"/> A subsurface mine	Greater than 5 (mi.)
<input type="checkbox"/> An (non-karst) unstable area	Greater than 5 (mi.)
<input type="checkbox"/> Categorize the risk of this well / site being in a karst geology	Low
<input type="checkbox"/> A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
<input type="checkbox"/> Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

<input type="checkbox"/> Requesting a remediation plan approval with this submission	Yes
--	-----

Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.

<input type="checkbox"/> Have the lateral and vertical extents of contamination been fully delineated	Yes
<input type="checkbox"/> Was this release entirely contained within a lined containment area	Yes

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

<input type="checkbox"/> On what estimated date will the remediation commence	05/19/2025
<input type="checkbox"/> On what date will (or did) the final sampling or liner inspection occur	05/19/2025
<input type="checkbox"/> On what date will (or was) the remediation complete(d)	08/01/2025
<input type="checkbox"/> What is the estimated surface area (in square feet) that will be remediated	87120

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

Δ	Is (or was) there affected material present needing to be removed	Yes	
Δ	Is (or was) there a power wash of the lined containment area (to be) performed	No	
Δ	OTHER (Non-listed remedial process)	No	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

Δ	I hereby agree and sign off to the above statement	Name: Terry Payton Title: Financial Officer Email: terry@bergsteinerenterprises.com Date: 04/11/2025	
---	--	---	--

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Liner Inspection Information

Last liner inspection notification (C-141L) recorded **{Unavailable}**
 Was all the impacted materials removed from the liner **Unavailable.**

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

- Requesting a remediation closure approval with this submission **No**

Comments

Conditions of Approval

Reasons of Rejection

Remediation plan denied.

Added on 5/2/2025 by bhall

[Remove](#)

As per the last rejections, per 19.15.29.12 C.(4) NMAC If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to ground water in Table I of 19.15.29.12 NMAC: (c) within (ii) 1000 feet of any fresh water well or spring. The release is within 1000 feet of a fresh water well and regardless of depth to groundwater, the release must be delineated, both horizontally and vertically, and remediated to the most stringent closure standards in Table I.

Added on 5/2/2025 by bhall

[Remove](#)

The question "Was this release entirely contained within a lined containment area" was answered "Yes". Data included in the report indicates that this release was not entirely contained within a lined containment area.

Added on 5/2/2025 by bhall

[Remove](#)

Per 19.15.29.7 C. NMAC, "Responsible party" means the operator, as defined in 19.15.2 NMAC. Notwithstanding the foregoing, the division, in its sole discretion, may also consider a person causing the release, or controlling the location of the release as the responsible party. OCD will hold the operator of the site responsible for releases that occurred at the site, including any pipeline releases that may have affected the site.

Added on 5/2/2025 by bhall

[Remove](#)

placement of 0.5 to 1 foot of low-permeability clay at the base of excavations and at least 4 feet of clean top soil above the clay to support vegetation." OCD no longer approves the use of liners that are placed on top of contamination as a remediation variance in an effort solely to ensure contamination doesn't migrate further is not equal or better protection, as the contamination will remain in place. A liner request solely to reduce cleanup will be denied.

Added on 5/2/2025 by bhall

[Remove](#)

OCD does not approve the proposed excavation areas (identified by the blue hatched areas) depicted on Figure 7, Estimated Extents of Proposed Excavation Areas. The entire release area must be remediated to the most stringent closure criteria. This includes the former pit area, any areas that Buckeye contends 3rd party pipeline releases occurred, and any additional areas of contamination that Buckeye has discovered during all site assessment activities.

Added on 5/2/2025 by bhall

[Remove](#)

OCD does not approve the "anticipated confirmation sample locations" that are illustrated on Figure 7, Estimated Extents of Proposed Excavation Areas as the full extent of contamination is not represented by these sample locations.

Added on 5/2/2025 by bhall

[Remove](#)

OCD does not approve sections 5.1.4 or 5.2 of the remediation plan.

Added on 5/2/2025 by bhall

[Remove](#)

In future submittals, do not include the mostly blank sheet of paper that only states "Provided in the Proposed Remediation Plan." The remediation plan either needs 1) to be broken down into the individual tags with the correct portion of the remediation plan attached or 2) all tags need to be included on the one file that contains the entire remediation plan.

Added on 5/2/2025 by bhall

[Remove](#)

Buckeye's failure to submit an adequate site characterization and remediation plan constitutes an ongoing violation of 15.15.29 NMAC.

Added on 5/6/2025 by bhall

[Remove](#)

Department Use Only

Contact Phone:

Contact Email:

Internal Comment:

Reviewer:

Brittany Hall

Take Reviewership

Fee Information

Created On: 4/11/2025 2:33 PM

Created By: tpayton

Type: SB553 A.(2)

PO Number: BNMQ6-250411-C-1410

Amount: \$150.00

Modified By: tpayton

Modified On: 4/11/2025 2:33 PM

Payment Information

Created On: 4/11/2025 3:00 PM

Created By: tpayton

Status: Paid

Type: Credit Card

Amount: \$150.00

Modified By: bhall

Modified On: 5/6/2025 11:45 AM

HOBBS OCD

MAY 11 2018

RECEIVED

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

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company <i>Buckeye Disposal</i>	Contact <i>Jim SAYRE</i>
Address	Telephone No. <i>575-393-8352</i>
Facility Name <i>STATE AF</i>	Facility Type <i>Disposal</i>

Surface Owner <i>State</i>	Mineral Owner <i>State</i>	API No. <i>30-025-20980</i>
----------------------------	----------------------------	-----------------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<i>L</i>	<i>8</i>	<i>185</i>	<i>35E</i>	<i>1980</i>	<i>South</i>	<i>990</i>	<i>West</i>	<i>LCA</i>

Latitude *32.76012* Longitude *103.48457*

NATURE OF RELEASE

Type of Release <i>Leak</i> produced water	Volume of Release <i>30 bbl</i>	Volume Recovered <i>30 bbl</i>
Source of Release <i>Line Failure</i>	Date and Hour of Occurrence <i>4-24</i>	Date and Hour of Discovery <i>4-26-18</i>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

RECEIVED
By Olivia Yu at 2:23 pm, May 11, 2018

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
SEAL ON pump went out CAUSING pressure build up & line failure INSIDE Dyke & LINER

Describe Area Affected and Cleanup Action Taken.*
INSIDE the LINER

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

Signature: <i>Jim Sayre</i>	OIL CONSERVATION DIVISION	
Printed Name: <i>Jim SAYRE</i>	Approved by Environmental Specialist:	
Title: <i>MANAGER</i>	Approval Date: 5/11/2018	Expiration Date:
E-mail Address: <i>jim@the-standard-energy.com</i>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <i>5-4-18</i> Phone:	<div style="border: 1px solid red; padding: 5px;"> see attached directive for historical impacted areas on location. Please inspect liner in question. Provide NMOCD with a concise report of the inspection with affirmation the liner has and will continue to contain liquids. </div>	

1RP-5056

nOY1813152090

pOY1813152414

* Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 5/11/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1RP-5056 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 1 office in Hobbs on or before 6/11/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

OCD Permitting

Home Searches Incidents Incident Details

nOY1813152090 STATE AF #003

General Incident Information

Well: [\[30-025-20980\]](#) STATE AF #003 [Edit](#)

Facility:

Operator: [\[222759\]](#) BUCKEYE DISPOSAL, L.L.C.

Status: Active

Stage: Initial C-141 Approved, Pending submission of Site Characterization / Remediation Plan OR Remediation Closure Report from the operator

Type: Produced Water Release **Severity:**

Incident Location: L-08-18S-35E 1980 FSL 990 FWL

Lat/Long: [32.7605324,-103.4851837 NAD83](#)

District: Hobbs **County:** Lea (25)

Surface Owner: State

Severity Indicators

Resulted In Fire:	<input type="checkbox"/>	Resulted In Injury:	<input type="checkbox"/>
Endangered Public Health:	<input type="checkbox"/>	Will or Has Reached Watercourse:	<input type="checkbox"/>
Fresh Water Contamination:	<input type="checkbox"/>	Property Or Environmental Damage:	<input type="checkbox"/>

Notes

Source of Referral: Other State Agency **Action / Escalation:** Referred to Environmental Inspector

Department Use Only

Contact Phone: **Contact Email:**

Internal Comment:

Confidential: **Reviewer:** Brittany Hall **Take Reviewership**

Contact Details

Contact Name: **Contact Title:**

Event Dates

Date of Discovery: 04/26/2018 **Initial C-141 Report Due:** 5/11/2018

Remediation Closure Report Due: 12/19/2023 [Department Notes](#)

Quick Links

- [General Incident Information](#)
- [Materials](#)
- [Events](#)
- [Orders](#)
- [Action Status](#)

Associated Images

- Facility Files (0)
- [Incident Files \(3\)](#)
- [Well Files \(80\)](#)

Associated Inspections

- [Incident Inspections](#)
- [Incident Field Compliances](#)
- [Operator Inspections](#)
- [Operator Field Compliances](#)

New Searches

- [New Facility Search](#)
- [New Incident Search](#)
- [New Operator Search](#)
- [New Pit Search](#)
- [New Well Search](#)

Incident Dates

19.15.29 NMAC - RELEASES

Type	Action	Received	Denied	Approved
Remediation Plan	[438610]	03/04/2025	03/12/2025	
Site Characterization	[438610]	03/04/2025	03/12/2025	

19.15.30 NMAC - REMEDIATION

Type	Action	Received	Denied	Approved

OCD Ex. 19-001

[Edit](#)

Initial C-141 Report	05/11/2018	05/11/2018
----------------------	------------	------------

Compositional Analysis of Vented and/or Flared Natural Gas

No Compositional Analysis Found

Incident Materials

Cause	Source	Material	Volume			Units	
			Unk.	Released	Recovered		Lost
Equipment Failure	Pump	Produced Water	<input type="checkbox"/>	30	30	0	BBL
The concentration of dissolved chloride in the produced water >10,000 mg/l: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							

[Edit](#)

Incident Events

Date	Detail
10/22/2025	An application [451183] was submitted to OCD for review. It was submitted, indicating that it was an: [C-141] Application for administrative approval of a release notification and corrective action The operator was emailed confirmation of this event.
10/22/2025	An application [438610] was submitted to OCD for review. It was submitted, indicating that it was an: [C-141] Application for administrative approval of a release notification and corrective action The operator was emailed confirmation of this event.
05/06/2025	Remediation plan denied. See application ID 451183 for reasons of rejection.
05/06/2025	The (10/22/2025, C-141) application [451183] was rejected by OCD. The operator was emailed with details of this event.
04/11/2025	The (10/22/2025, C-141) application [451183] was assigned to this incident.
03/12/2025	Remediation plan denied. See application ID for all reasons of rejection. A complete and accurate report must be submitted via the OCD Permitting website by 4/11/2025.
03/12/2025	The (10/22/2025, C-141) application [438610] was rejected by OCD. The operator was emailed with details of this event.
03/04/2025	The (10/22/2025, C-141) application [438610] was assigned to this incident.
09/17/2024	Incident numbers, nOY1813152090 and nKL1625134663, associated with the State AF #003 (30-025-20980) are out of compliance. Both incidents were granted 90-day extension requests on February 1, 2024, to facility Buckeye Disposal's compliance with the New Mexico State Land Office's (SLO) requirements. Site Characterization and Remediation Plans or Remediation Closure Reports were required to be submitted to OCD Permitting no later than May 2, 2024. As of today, September 17, 2024, OCD has not received any submittals for these two incidents. OCD WILL NOT approve any additional extension requests for nOY1813152090 and nKL1625134663. Remediation of these releases must be completed pursuant to 19.15.29 NMAC, including submission of approvable remediation plans, remediation closure reports, reclamation reports, and revegetation reports. OCD will use its enforcement discretion to determine if additional enforcement action is warranted. Cooperation from Buckeye Disposal L.L.C. will be considered when determining any enforcement actions, which may include civil penalties.
02/01/2024	Operator has requested a 90 day extension as they are working with the State Land Office and need time to coordinate field activities and obtain access and clearances (i.e., cultural compliance). Results of the characterization activities will be used to develop the remediation plan. Extension approved new due date is 5/2/2024.
12/05/2023	Extension requested due to samples being analyzed by the lab and the operator is waiting on the results. New due date is 2/2/2024.
09/19/2023	Analytical results for the samples collected will not be accepted for the following reasons: Total petroleum hydrocarbons were not analyzed using an acceptable method. Acceptable methods for each analyte are listed in 19.15.29 NMAC on Table I. Other methods may be used as long as they

[Edit](#)

	depth to groundwater, the release must be delineated, both horizontally and vertically, and remediated to the most stringent closure standards in Table I. There is a playa lake located southeast of SB-08. Horizontal and vertical delineation of the site will need to include sample points that will assess if the playa lake has been impacted by the release. 1RP-5056 closed. Refer to incident #NOY1813152090 in all future communication. Submit a complete report though the OCD Permitting website by 12/19/2023. Two releases are referred to in the report. Reports can be used for multiple incident numbers but the report will need to be submitted through the OCD Permitting website under each individual incident number.
09/19/2023	The (09/19/2023, C-141) application [265158] was rejected by OCD. The operator was emailed with details of this event.
09/19/2023	An application [265158] was submitted to OCD for review. It was submitted, indicating that it was an: [C-141] Application for administrative approval of a release notification and corrective action The operator was emailed confirmation of this event.
09/13/2023	The (09/19/2023, C-141) application [265158] was assigned to this incident.
07/19/2022	Historic Review of files.. 1/29/20 Remediation Plan denied. Delineation not complete. Depth to groundwater not identified.
05/11/2018	1RP-5056. Seal on pump went out, causing pressure buildup and line failure inside dike and liner. [Reported by NMSLO. Site visit in Jan 2018, indicate impact outside of lined facility.]

Incident Severity

Major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
--	--

Incident Corrective Actions

- No initial response data was found for this incident. [Create Initial Response Data](#)
- No site characterization data was found for this incident. [Create Site Characterization Data](#)
- No remediation plan data was found for this incident. [Create Remediation Plan Data](#)
- No active remediation deferral request was found for this incident. [Create Active Remediation Deferral Request Data](#)
- No remediation closure report data was found for this incident. [Create Remediation Closure Report Data](#)
- No reclamation report data was found for this incident. [Create Reclamation Report Data](#)
- No re-vegetation report data was found for this incident. [Create Re-vegetation Report Data](#)

Orders

1RP-5056-0 

Applicant:	[222759] BUCKEYE DISPOSAL, L.L.C.	Approved By:	SLO
Contact:	Jim Sayre	Issuing Office:	Hobbs
Reviewer:	Olivia Yu		

Processing Dates

Received:	05/11/2018	Ordered:	05/11/2018
Approved:	05/11/2018	Denied:	
Expiration:		Cancelled:	

Remediation Plan

State AF #003 SWD Site

Prepared for
Buckeye Disposal, Inc.

Prepared by



6020 Academy NE, Suite 100
Albuquerque, New Mexico 87109
www.dbstephens.com
DB19.1241

August 25, 2023

Table of Contents

1.	Introduction	1
2.	Releases and Initial Soil Characterization	1
3.	2023 Characterization Activities	2
4.	Proposed Remediation Plan	3
4.1	Approach	3
4.2	Schedule	4
4.3	Monitoring	4
	Reference	5

List of Figures

1	Initial Soil Sampling Results, February 2019
2	Shallow Water Sources within ½ mile of Site
3	Soil Borehole Investigation Chloride Concentrations in Soil
4	Soil Borehole Investigation TPH Concentrations in Soil
5	Revegetation Area

List of Appendices

A	Record of State AF #003 SWD Plugging and Abandonment
B	Release Notification Forms (C-141)
C	Analytical Laboratory Reports
D	L02350 Well Log
E	Site Photographs, March 2023
F	Revegetation Seed Mix

1. Introduction

On behalf of Buckeye Disposal, Inc. (Buckeye), Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this remediation plan for the State AF #003 SWD site (the site) located on State of New Mexico Business Lease BL-2050 in Section 8, Township 18 South, Range 35 East, NMPM (API #30-025-20980). Until recently, Buckeye operated a salt water disposal well at the site. Since ceasing disposal well operations, Buckeye has plugged and abandoned the disposal well, removed the tank battery, and characterized impacts to soil at the site, including those from two documented releases. The salt water disposal well was plugged and abandoned in April 2023 (Appendix A).

This remediation plan summarizes the two releases and results of initial soil sampling (Section 2) and characterization activities conducted in February and May 2023 (Section 3), and provides a proposed remediation plan to restore the site in accordance with the requirements of Subsections 12 and 13 of 19.15.29 NMAC (Section 4).

2. Releases and Initial Soil Characterization

The two site releases occurred on August 20, 2016 and May 4, 2018. Buckeye submitted release notification forms (Form C-141) to the Oil Conservation Division (OCD) for these releases (Appendix B). Both releases occurred within the former tank battery secondary containment, which was lined with a 40-mil high-density polyethylene (HDPE) flexible membrane. In response to the notifications, OCD assigned remediation permit 1RP-4429 on September 7, 2016 and remediation permit 1RP-5056 on May 11, 2018.

On February 14, 2019, soil samples were collected from seven locations around the perimeter of the tank battery secondary containment, as shown in Figure 1. Samples were collected from depths up to 36 inches using a backhoe. The samples were submitted to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico and analyzed for chloride. Sample results are provided on Figure 1. The Cardinal laboratory report is provided in Appendix C.

Information available online from the New Mexico Office of the State Engineer (OSE) indicates that the depth to shallow groundwater at the well closest to the site (well L02350) is greater than 100 feet below ground surface (bgs) (Figure 2). Based on this depth to groundwater, the OCD numerical limit for chloride is 20,000 milligrams per kilogram (mg/kg), as prescribed in

Table 1 of 19.15.29.12 NMAC. Chloride concentrations in the soil samples collected around the containment area in February 2019 ranged from 960 to 5,520 mg/kg, all well below the OCD numerical limit. Based on these results, chloride concentrations in soil outside the containment area do not require remediation.

Well L02350 is north-northeast of the former location of the tank battery (Figure 2). The well log indicates that the boring was drilled to a total depth of 216 feet bgs in March 1960, and that the boring penetrated a water-bearing zone at 110 feet bgs (Appendix D). The well is currently owned by Intrepid Potash, New Mexico, LLC, is referred to as Intrepid Potash North Well N-4, and is permitted for industrial use. On February 20, 2020, DBS&A contacted Intrepid Potash's East Plant regarding the status of the well and the water level at the well. They reported that the current water level in the well was 115 feet bgs. Based on this information, depth to groundwater at the site is greater than 100 feet bgs.

3. 2023 Characterization Activities

Buckeye collected additional soil samples at the site after plugging and abandonment of the disposal well and removal of the tank battery, including the 40-mil HDPE flexible membrane liner of the secondary containment. Eight locations were sampled at depths of 1 foot and 3 feet. The soil samples were collected from around the perimeter of the well pad, at the former location of the tank battery, and along a shallow depression that drains to the south. The samples were collected on February 17, 2023 and May 16, 2023 and submitted to Eurofins in Lubbock, Texas, where they were analyzed for chloride and total petroleum hydrocarbons (TPH). The sample results are shown on Figures 3 and 4. The Eurofins laboratory reports are provided in Appendix C.

Chloride concentrations of the soil samples ranged from 137 mg/kg (SB-05 at 1 foot) to 10,600 mg/kg (SB-03 at 1 foot). The highest chloride concentration was measured in the soil sample collected just outside the former location of the tank battery secondary containment. TPH concentrations of the soil samples ranged from 41.8 mg/kg (SB-03 at 3 feet) to 1,880 mg/kg (SB-08 at 1 foot). The highest TPH concentration was measured in the soil sample collected at the south end of the shallow depression that drains to the south. The chloride and TPH concentrations are all below the OCD numerical limits for groundwater deeper than 100 feet bgs, as prescribed in Table 1 of 19.15.29.12 NMAC. The OCD numerical limits for

chloride and TPH based on this groundwater depth are 20,000 mg/kg and 2,500 mg/kg, respectively.

4. Proposed Remediation Plan

Buckeye will restore the impacted surface area of the releases to meet the standards of Table 1 of 19.15.29.12 NMAC, and will restore and reclaim the area pursuant to 19.15.29.13 NMAC. The chloride and TPH concentrations of the soil samples collected at the site in both 2019 and 2023 are below the OCD numerical limits prescribed in Table 1 of 19.15.29.12 NMAC for groundwater deeper than 100 feet bgs. Because the existing site soils meet these numerical limits, Buckeye will use them to restore the site.

Buckeye has already removed all infrastructure from the site (Appendix D) and plugged and abandoned the disposal well (Appendix A). Appendix E provides site photographs taken in March 2023.

4.1 Approach

The purpose of the proposed remediation plan is to restore the site to a condition similar to that before installation and operation of the disposal well. The unvegetated area of the pad will be graded and then seeded to establish vegetative cover that reflects a lifeform ratio of ± 50 percent of pre-disturbance levels and a total percent plant cover of at least 70 percent of pre-disturbance levels, excluding noxious weeds [19.15.29.13.D(3) NMAC]. The proposed remediation plan is as follows:

- **Grade:** The regional topography in the vicinity of the site slopes gently to the southeast at a grade of approximately 0.4 percent. Buckeye will regrade the area of the well pad so that it slopes to the southeast at a grade consistent with the regional topography (i.e., less than 1 percent). Sloping will help to restore the natural drainage pattern.
- **Revegetate:** The site will be revegetated using a seed mix consisting of native plants common to the area (Appendix F). Revegetation will include scarification, seeding, and mulching, as follows:
 - ◇ **Scarification:** Scarification will be used to loosen compacted areas of soil, roughen the soil surface, and provide a suitable seedbed. It will be performed with common earthmoving equipment. The degree of scarification required for proper seeding will be

determined after grading, but it is typically completed to a depth of 2 to 4 inches. It will be conducted on contour to avoid the development of flow paths parallel to the slope that could promote erosion.

- ◇ Seeding: Seeds will be broadcast using common rangeland or other appropriate equipment. Seeds will be allowed to fall freely and will be subsequently covered (e.g., raked). Buckeye will conduct seeding just before the monsoon season to help promote growth and revegetation success. Seed will be applied at the rates specified in Appendix F.
 - ▶ The seed mix provided in Appendix F was obtained from the New Mexico Department of Transportation's (NMDOT's) revegetation zones and seed list online map (NMDOT, 2023). This resource provides appropriate seed lists when restoring disturbed land within New Mexico. The lists are based on the major land resource areas of New Mexico defined by the USDA National Resource Conservation Service.
 - ▶ The selected seed mix includes annual quick-cover grasses, cool-season and warm-season grasses, wildflowers, and woody shrubs.
- ◇ Mulching: Buckeye will apply weed-free mulch to the revegetated soil surface to minimize wind and stormwater erosion and to help maintain soil moisture.

The unvegetated area to be restored is approximately 2.7 acres, and is shown on Figure 5. Upon completion of site remediation, Buckeye will complete and submit the site characterization and remediation portions of Form C-141 to OCD.

4.2 Schedule

Existing site soils meet the appropriate OCD numerical limits prescribed in Table 1 of 19.15.29.12 NMAC. Therefore, site remediation will include only recontouring (i.e., grading) and seeding to reestablish vegetation, not soil removal. Buckeye will implement the proposed measures just before the first monsoon season following OCD and State Land Office (SLO) approval of this remediation plan.

4.3 Monitoring

Buckeye will conduct site inspections during the first year after seeding to assess revegetation progress. If the site does not show revegetation after one growing season, the area will be reseeded as needed.

Reference

New Mexico Department of Transportation (NMDOT). 2023. *2017 Zone 6 seed list: Southern High Plains*. Obtained from NMDOT's Revegetation Zones and Seed List Online Map <<https://www.arcgis.com/apps/Viewer/index.html?appid=57543133e0d34c3688df5dfd37d738fe>>. Accessed August 22, 2023.

Figures

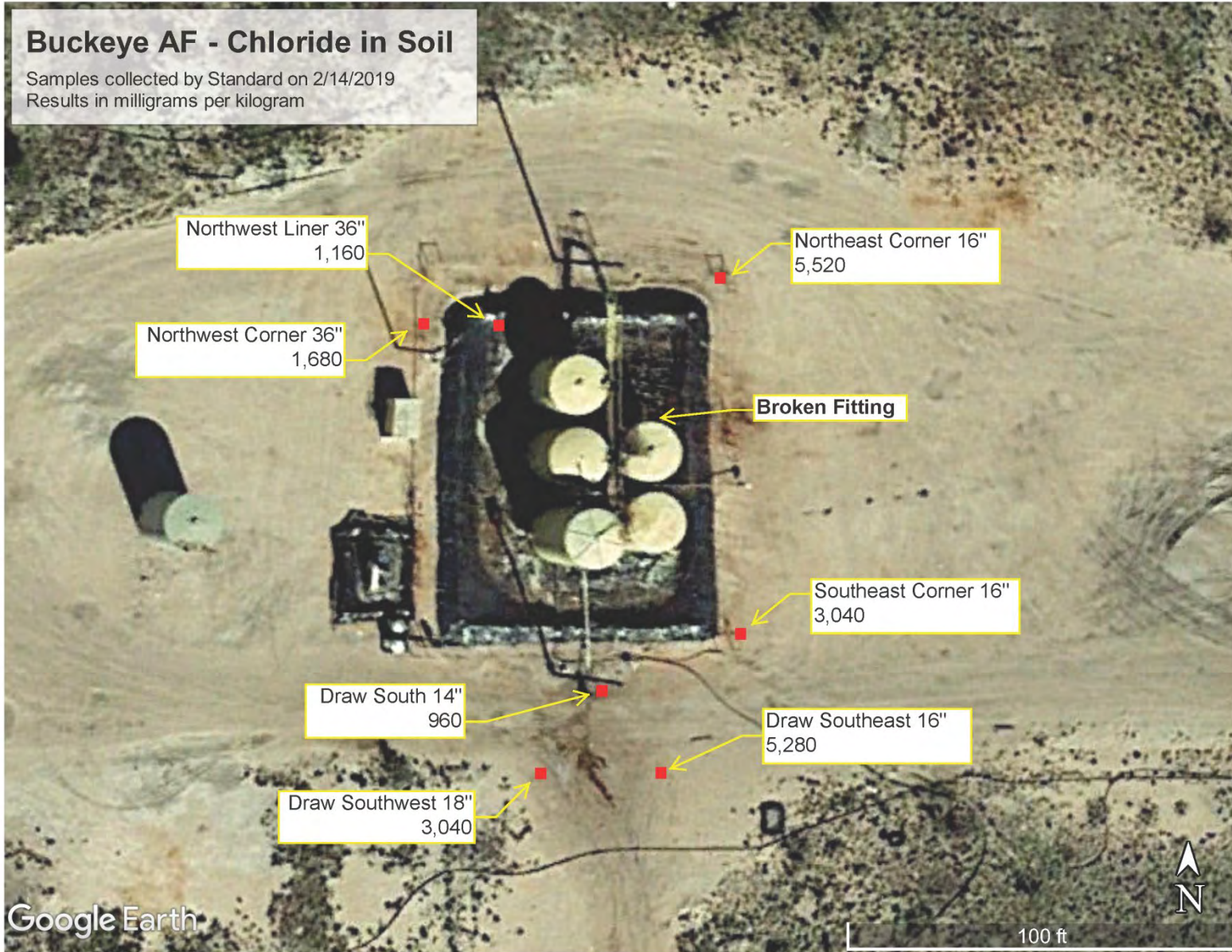


Figure 1



Figure 2

S:\PROJECTS\DB19.1241_BUCKEYE_DJ-AF\GIS\MXD\AF WP.7-23\F03_SOIL CHLORIDE.MXD



Source: Aerial imagery (NAIP, 2022)



Explanation

- SB-01 Chloride concentration (mg/kg)
- 2,310 (1.0 ft) **Shallow** (Depth)
- 5,580 (3.0 ft) **Deep** (Depth)
- Sample location



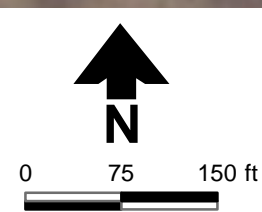
8/22/2023 DB19.1241

OCD Ex. 21-011

BUCKEYE STATE AF #003
Soil Borehole Investigation
Chloride Concentrations in Soil

Figure 3

S:\PROJECTS\DB19.1241_BUCKEYE_DUA\FIGISIMXDS\AF WP.7-23\F04_SOIL.TPH.MXD



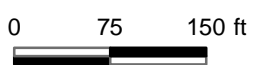
Note: TPH = Total Petroleum Hydrocarbons Source: Aerial imagery (NAIP, 2022).

- Explanation**
- SB-01 TPH concentration (mg/kg)
 - 371 (1.0 ft) **Shallow** (Depth)
 - 1,420 (3.0 ft) **Deep** (Depth)
 - ⊗ Sample location

BUCKEYE STATE AF #003
Soil Borehole Investigation
TPH Concentrations in Soil



Source: Aerial imagery (NAIP, 2022).



Explanation

 Revegetation area

S:\PROJECTS\DB19.1241_BUCKEYE_DU\AF\GIS\MXD\AF WP.7-23\F05_RECLAMATIONAREA.MXD

Appendix A

Record of State AF #003
SWD Plugging and
Abandonment

State of New Mexico Energy, Minerals and Natural Resources

Form C Revised July 18,

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

- District I - (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283 811 S. First St., Artesia, NM 88210
District III - (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505

WELL API NO. 30-025-20980
5. Indicate Type of Lease STATE [X] FEE []
6. State Oil & Gas Lease No. E 7723
7. Lease Name or Unit Agreement Name Buckeye State AF
8. Well Number 3
9. OGRID Number 222759
10. Pool name or Wildcat Wolfcamp

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well [] Gas Well [X] Other SWD

2. Name of Operator Buckeye Disposals LLC

3. Address of Operator PO Box 2724 Lubbock, Texas 79408

4. Well Location Unit Letter L : 1980 feet from the South line and 990 feet from the West line Section 8 Township 185 Range 35E NMPM County Lea

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

- PERFORM REMEDIAL WORK [] PLUG AND ABANDON [X]
TEMPORARILY ABANDON [] CHANGE PLANS []
PULL OR ALTER CASING [] MULTIPLE COMPL []
DOWNHOLE COMMINGLE []
CLOSED-LOOP SYSTEM []
OTHER: []

SUBSEQUENT REPORT OF:

- REMEDIAL WORK [] ALTERING CASING []
COMMENCE DRILLING OPNS. [] P AND A [X]
CASING/CEMENT JOB [] PNR
OTHER: []

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

See attachments

Spud Date: []

Rig Release Date: []

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

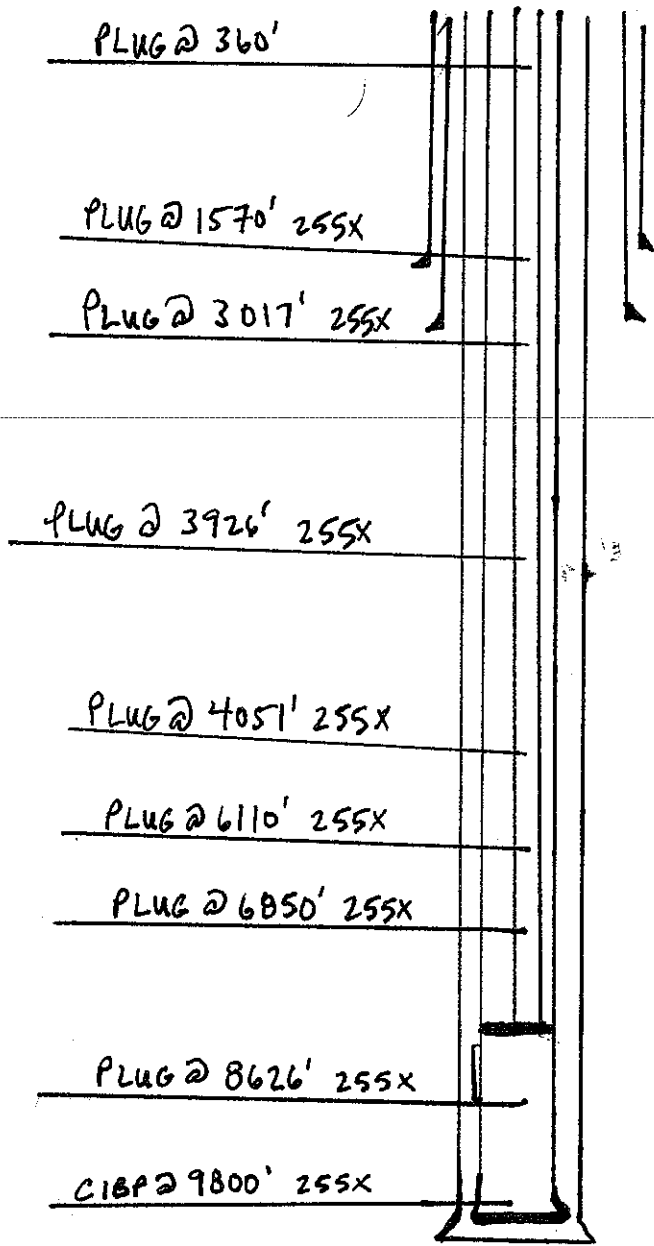
SIGNATURE [Signature] TITLE Manager DATE 5-5-23
Type or print name Jack Yates E-mail address: jack@bergsteinenterprises.com PHONE: 806-241-7405
PROVED BY: Kerry Fortner TITLE OCD Ex Compliance Officer A DATE 5/5/23

- **Buckeye Disposal LLC**
 - **Buckeye State AF #3**
 - **Start Date-04/03/23 Completed -04-20-23**
1. Mon-04/03/23-Arrived on location at 9am, held a 5min tailgate safety meeting, got rig spotted and equipment ready for rig up, rigged up the rig. Waited on BOP to arrive, it arrived at 11.30am, nipped down wellhead and nipped up BOP. Rigged up work floor and tubing equipment, unset packer, crew took lunch break. Begin pulling tubing pulled 299 joints and the PKR secured well shut down.
 2. Tues-04/04/23-Arrived on location, held a 5min tailgate safety meeting, opened well 0 psi, wireline arrived at 8am spotted equipment, rigged up tools and equipment, they tried to run in hole no luck. They noticed it was the wrong size tool. They had to run to town to get the correct tool. They arrived at 10:30am connected tool, ran in hole with gauge ring, then ran the bridge plug set it at (9800ft). Pulled out of hole and rigged down. Secured well shut down for the day due to the wind.
 3. Wens-04/05/23 Arrived on location, held a 5min tailgate safety meeting. Opened well 0psi, got equipment ready, waited on tubing testers. They arrived at 7:30am got spotted and rigged up. It was a windy morning. They tested 4 stands with the rod style testing method and our derrick man was struggling due to wind to stab the probe from the derrick. I decided to rig them down and get the Bars style testing equipment that would be more time efficient and a safer process. Rigged them down waited on new testing truck to arrive from there yard. Testers Arrived at 10:30 am, spotted in and rigged up we then proceeded to test tubing in the hole. Tested 12 stands had to replace 2 collars tested 15 more stand, crew then took a lunch break. After lunch proceeded to test tubing in the hole. Replaced a total of 6 collars, got tubing tested and rigged down tubing testers, secured well shut down for the day. (During the process of testing about 50 stands left to test, the bars were falling at a very slow rate due to well begin full of water we hooked up vac truck.)
 4. Thurs-04/06/23-Arrived on location, held tailgate safety meeting with crew, opened well 0 psi. Waited on cementers to finish rigging up, tied them on to the tubing to test the Bridge Plug, tested it to 500 psi tested good. Circulated well with jell brine. Spotted 25 sacks of cement, laid down 27 joints reversed pump water, to assure the tubing was clear. Waited on a new half pit due to the one on locating having a leak on it. Took a lunch break while it showed up, it arrived we then tied the hoses into the new half pit. Got ready to pump cement plug, pumped 25 sacks of class (8790 ft,) laid down 12 joints pulled 12 stands to the derrick, secured well shut down for the day.

5. Fri-04/07/23-Arrived on location, held a tailgate safety meeting, 0 psi on well opened up BOP, begin to run tubing in the hole to tag plug, tagged plug at 8626" ft. Then proceeded to lay down tubing on the trailer, laid down 62 joints, stood back 202 joints in the derrick. Ran in hole with 4" packer and 202 joints from the derrick, tried to set packer no luck picked up 1 joint worked packer again and got it to set at 6583". Rigged up wireline, perforated at 6800" ft, rigged down wireline, rigged up pump to try and get a pump rate, pressured rite up could not pump into perms. Called NMODC no answer, waited 30 mins no called was returned. Decided to secure well and shut down for the day.
6. Mon-04/10/23-Arrived on location, held tailgate safety meeting, checked pressure on well 0 psi, opened BOP, NMODC decided to spot plug 50 ft below perms, unset packer, picked up 7 joints to spot 25 sack plug at 6850" ft . Cement pump would not start. Waited until it was fixed at 10am. Proceeded to pump cement, laid down 12 joints and stood 15 stands back to the derrick WOC 4 hours. Went and tagged 6380" ft laid down 6 joints had rig problems shut down.
7. Tues-04/11/23-Arrived on location, held a tailgate safety meeting, waited on mechanic to arrive, and fix rig. He arrived got it going, laid down 12 joints spotted 25 sack plug at 6110" no tag required laid down 58 joints to 4200" ft. Secured well shut down for the day.
8. Wens-04/12/23-Arrived on location, held tailgate safety meeting, got equipment ready to pump plug cementer took a while to get his numbers ready and pump, did not start pumping until 8:30am. Pumped a 10 sack plug, pulled tubing to the derrick and waited on cement 4hrs. Opened well ran tubing with packer tagged plug at 4051"ft, laid down tubing to the next plug, set packer at 3640"ft. Rigged up wireline, perforated at 3876"ft rigged down wireline. Rigged up pump tried to establish pump rate could not, unset packer picked up 9 joints spotted 25 sacks of cement at 3926". Laid down 12 joints, stood back 15 stands to the derrick secured well shut down.
9. Thurs-04/13/23-Arrived on location, held tailgate safety meeting, opened well, started to run tuning tagged with 6 ft in, tagged way high, made a call to NMOCD and he decided to drill down to the plug that was pumped the day prior at 3926". Begin laying down 32 joints on the trailer and stood the rest in the derrick, pulled 6 stands and the tubing was full waited on mud bucket to arrive. It arrived at 11:30am we then continued pulling tubing, got to the plugged off joints begin to lay them down on the ground, laid down 32 cemented joints. Could not get the drilling equipment till the next day, secured well shut down.
10. Fri-04/14/23-Arrived on location, held tailgate safety meeting, opened well, spotted in drill collars and equipment, tallied the collars, begin to pick the up, picked up bit and 6 drill collars, ran tubing tagged at 2570" set 15 points on it fell through, continued to run tubing to 3988 never tagged on cement. Circulated well clean, POOH with tubing and laid down drill collars, secured well shut down.

11. Mon-04/17/23-Arrived on location, held safety meeting, opened well, begin to run tubing in hole, ran 114 joints from the derrick, picked up 7 joints from trailer, rigged up pump, spotted 25 sacks of cement at 3926" ft. laid down 12 joints stood back 15 stands WOC 4 hrs. Opened well begin to run tubing to tag plug, tagged at 3396" ft, good tag, laid down 10 joints, rigged up pump spotted 25 sacks at 3017" ft. Laid down 50 joints stood back the rest of the tubing secured well shut down.
12. Tues-04/18/23-Arrived on location, held safety meeting, opened well o psi, begin to run tubing to tag plug, tagged at 2517" ft. Laid down tubing to 1302" ft set packer. Secured well waited on wireline to arrive. They arrived got rigged up, perforated at 1520" ft, rigged down wireline, connected pump to try and establish rate, no luck decided to drop 50 ft below the perms and spot 25 sacks. Picked up 9 joints, spotted 25 sacks, laid down 17 joints, reversed out to clear tubing, stood 16 stands back in derrick shut down due to wind.
13. Wens-04/19/23-Arrived on location, held safety meeting, opened well 0 psi, ran tubing tagged at 1040" ft, good tag, begin to lay down tubing, laid down 31 joints, pulled two stands and picked up packer with 5 joints, set packer rigged up wireline, perforated at 360" ft, rigged down wireline, connected pump to establish rate, pumped 10 bbls at 480 psi, begin to pump 50 sacks of cement into perms. Shut in pressure was at 200 psi waited on cement to settle for 1hour, opened well, unset packer, laid down 4 joints set packer at 32" ft. Rigged up wireline, they perforated at 150" ft rigged them down. Rigged up pump to see if we could circulate well threw the surface casing, we circulated 20 bbls or water then begin to pump cement, pumped 80 sacks of cement and got good cement to surface stopped pumping. We then unset packer, laid down 1 joint and the packer, rigged down work floor and equipment, nipped down BOP, filled the casing and cellar with cement rigged down cementers and waited for cement to settle. Crew took lunch break, then cleaned and cleared location, got the rig ready for rig down to windy to rig down shut down for the day.
14. Thurs-04/20/23-Arrived on location, held safety meeting, rigged the rig down got it out of the way, waited on the excavator to arrive. Meanwhile crew pressure washed and organized rig. Excavator arrived we dig out the cellar crew assisted with shovels, welder them cut the well head off and welded a cap on there we back filled the well and leveled the grown. Moved rig to the yard shut down for the day. JOP COMPLETED.

BUCKEYE DISPOSAL INC.
STATE AF #3 - P9A SKETCH



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

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

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

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

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

COMMENTS

Action 213950

COMMENTS

Operator: BUCKEYE DISPOSAL, L.L.C. P.O. Box 2724 Lubbock, TX 79408	OGRID: 222759
	Action Number: 213950
	Action Type: [C-103] Sub. Plugging (C-103P)

COMMENTS

Created By	Comment	Comment Date
plmartinez	DATA ENTRY PM	5/5/2023

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

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

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

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

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

CONDITIONS

Action 213950

CONDITIONS

Operator: BUCKEYE DISPOSAL, L.L.C. P.O. Box 2724 Lubbock, TX 79408	OGRID: 222759
	Action Number: 213950
	Action Type: [C-103] Sub. Plugging (C-103P)

CONDITIONS

Created By	Condition	Condition Date
kfortner	Need C103Q and marker photo to release	5/5/2023

Appendix B
Release Notification
Forms (C-141)

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

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Buckeye Disposals	Contact: Jim Sayre
Address: PO Box 2724 Lubbock, TX 79408	Telephone No.: 575-390-6006
Facility Name: State AF #3	Facility Type: Disposal

Surface Owner	Mineral Owner	API No.: 30-025-20980
---------------	---------------	-----------------------

LOCATION OF RELEASE

Unit Letter L	Section 8	Township 185	Range 35E	Feet from the 1980	North/South Line South Line	Feet from the 990	East/West Line West Line	County Lea County
------------------	--------------	-----------------	--------------	-----------------------	--------------------------------	----------------------	-----------------------------	----------------------

Latitude: 32.756736 Longitude: 103.484803

NATURE OF RELEASE

Type of Release: Spill	Volume of Release: 15 bbl	Volume Recovered: 14 bbl
Source of Release: 3" PVC Line	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Broken 3" PVC Line - Repair broken 3" PVC Line.

REVIEWED
By Kristen Lynch at 9:57 am, Sep 07, 2016

Describe Area Affected and Cleanup Action Taken.*
Inside lined dyke - Repair liner, evacuate fluid form inside the dyke and mediate dirt inside the lined dyke.

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

Signature: <i>Jim Sayre</i>	OIL CONSERVATION DIVISION	
Printed Name: Jim Sayre	CONDITIONALLY Approved by Environmental Specialist: <i>Kristen Lynch</i>	
Title: Manager	Approval Date: 9/07/2016	Expiration Date: 11/07/2016
E-mail Address: jim@thestandardenergy.com	Conditions of Approval: no Later than 10/7/2016 Provide depth to Ground Water Delineate and Remediate per NMOCD Guidelines. Attached <input type="checkbox"/> Discrete Samples Accepted ONLY. NMOCD must IRP 4429	
Date: 8/20/16	Phone: 575-390-6006	

* Attach Additional Sheets If Necessary

approve all site investigation & Corrective Activities prior to implementation. Corrective action is site specific and risk based. NMOCD retains the right to require remediation to more stringent levels than proposed in guidelines if warranted by site specific conditions. Notify NMOCD prior to all sampling, to allow opportunity for witness sampling operations.

nKL1625134663
pKL1625135663

HOBBS OCD

MAY 11 2018

RECEIVED

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

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company <i>Buckeye Disposal</i>	Contact <i>JIM SAYRE</i>
Address	Telephone No. <i>575-393-8352</i>
Facility Name <i>STATE AF</i>	Facility Type <i>DISPOSAL</i>

Surface Owner State	Mineral Owner State	API No. <i>30-025-20980</i>
----------------------------	----------------------------	-----------------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<i>L</i>	<i>8</i>	<i>185</i>	<i>35E</i>	<i>1980</i>	<i>SOUTH</i>	<i>990</i>	<i>WEST</i>	<i>LCA</i>

Latitude *32.76012* Longitude *103.48457*

NATURE OF RELEASE

Type of Release <i>Leak</i> produced water	Volume of Release <i>30 bbl</i>	Volume Recovered <i>30 bbl</i>
Source of Release <i>LINE FAILURE</i>	Date and Hour of Occurrence <i>4-24</i>	Date and Hour of Discovery <i>4-26-18</i>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

RECEIVED
By Olivia Yu at 2:23 pm, May 11, 2018

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
SEAL ON PUMP WENT OUT CAUSING PRESSURE BUILD UP & LINE FAILURE INSIDE DYKE & LINER

Describe Area Affected and Cleanup Action Taken.*
INSIDE THE LINER

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

Signature: <i>[Signature]</i>	OIL CONSERVATION DIVISION	
Printed Name: <i>JIM SAYRE</i>	Approved by Environmental Specialist:	
Title: <i>MANAGER</i>	Approval Date: 5/11/2018	Expiration Date:
E-mail Address: <i>jim@the-standard-energy.com</i>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <i>5-4-18</i> Phone:	<p style="color: red;">see attached directive for historical impacted areas on location. Please inspect liner in question. Provide NMOCD with a concise report of the inspection with affirmation the liner has and will continue to contain liquids.</p>	

* Attach Additional Sheets If Necessary

nOY1813152090

pOY1813152414

1RP-5056

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 5/11/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1RP-5056 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 1 office in Hobbs on or before 6/11/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Appendix C

Analytical Laboratory Reports

February 19, 2019

JIM SAYRE

BUCKEYE DISPOSAL, LLC

P. O. BOX 513

HOBBS, NM 88241

RE: BUCKEYE

Enclosed are the results of analyses for samples received by the laboratory on 02/15/19 8:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 BUCKEYE DISPOSAL, LLC
 JIM SAYRE
 P. O. BOX 513
 HOBBS NM, 88241
 Fax To: UNK-NOWN

 Received: 02/15/2019
 Reported: 02/19/2019
 Project Name: BUCKEYE
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 02/14/2019
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: DRAW SOUTH 14" (H900609-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	02/19/2019	ND	432	108	400	0.00	

Sample ID: NORTH EAST CORNER 16" (H900609-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	02/19/2019	ND	432	108	400	0.00	

Sample ID: SOUTH EAST CORNER 16" (H900609-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	02/19/2019	ND	432	108	400	0.00	

Sample ID: DRAW SOUTHEAST 16" (H900609-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	02/19/2019	ND	432	108	400	0.00	

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BUCKEYE DISPOSAL, LLC
 JIM SAYRE
 P. O. BOX 513
 HOBBS NM, 88241
 Fax To: UNK-NOWN

 Received: 02/15/2019
 Reported: 02/19/2019
 Project Name: BUCKEYE
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 02/14/2019
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: DRAW SOUTH WEST 18" (H900609-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	02/19/2019	ND	432	108	400	0.00	

Sample ID: NORTH WEST CORNER 36" (H900609-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	02/19/2019	ND	432	108	400	0.00	

Sample ID: NORTH WEST LINER 36" (H900609-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1160	16.0	02/19/2019	ND	432	108	400	0.00	

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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



Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

Company Name: <i>Buckeye Disposal</i>		BILL TO				ANALYSIS REQUEST																			
Project Manager: <i>JIM SAYRE</i>		P.O. #:																							
Address: <i>PO Box 513</i>		Company:																							
City: <i>Hobbs</i> State: <i>NM</i> Zip: <i>88240</i>		Attn:																							
Phone #: <i>575-361-5072</i> Fax #: <i>575-393-8352</i>		Address:																							
Project #: _____ Project Owner: _____		City:																							
Project Name: _____		State: _____ Zip: _____																							
Project Location: <i>Buckeye</i>		Phone #:																							
Sampler Name: <i>JIM SAYRE</i>		Fax #:																							
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		# CONTAINERS	MATRIX					PRESERV.		SAMPLING													
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME										
<i>H900609</i>				<i>G 1</i>			<input checked="" type="checkbox"/>							<i>2-14-19</i>	<i>17:30</i>										
		<i>1 Draw South 14"</i>																							
		<i>2 North East Corner 16"</i>																							
		<i>3 South East Corner 16"</i>																							
		<i>4 Draw South East 16"</i>																							
		<i>5 Draw South West 18"</i>																							
		<i>6 North West Corner 36"</i>																							
		<i>7 North West Liner 36"</i>																							

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>J.D. Sayre</i>		Date: <i>2-15-19</i>		Received By: <i>Jamara Oldat Key</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: <i>0805</i>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:			
		Time:							
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>19.3c #97</i>				Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		CHECKED BY: (Initials) <i>J.S.</i>			
				OGD Ex. 21-032		<i>JIM@thestandardenergy.com</i>			

ANALYTICAL REPORT

PREPARED FOR

Attn: Jack Yates
Buckeye Disposals
2310 Fordham
Lubbock, Texas 79408

Generated 2/28/2023 4:40:04 PM Revision 1

JOB DESCRIPTION

State AF #3

JOB NUMBER

820-7494-1

Authorization

Holly Taylor

Generated
2/28/2023 4:40:04 PM
Revision 1

Authorized for release by
Holly Taylor, Project Manager
Holly.Taylor@et.eurofinsus.com
(806)794-1296

TPH = 10,000 mg/kg
Cl = 3,000 mg/kg

Eurofins Lubbock

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	11
Lab Chronicle	13
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	19

Definitions/Glossary

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-7494-1

3

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-7494-1

Job ID: 820-7494-1

Laboratory: Eurofins Lubbock



Narrative

**Job Narrative
820-7494-1**

Revision

The report being provided is a revision of the original report sent on 2/27/2023. The report (revision 1) is being revised to correct the data due to analyst error per AJ (email).

Receipt

The samples were received on 2/21/2023 3:06 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 22.6° C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: 1. Battery (820-7494-1), 2. North Side (820-7494-2), 3. South Side (820-7494-3), 4. SW Corner (820-7494-4), 5. NW Corner (820-7494-5) and 6. East Side (820-7494-6). This does not meet regulatory requirements. The client was contacted regarding this issue, and the laboratory was instructed to proceed with analysis.

GC Semi VOA

Method TX 1005: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-47141 and analytical batch 880-47136 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-47148 and analytical batch 880-47261 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Organic Prep

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

Client Sample Results

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-7494-1

Client Sample ID: 1. Battery

Lab Sample ID: 820-7494-1

Date Collected: 02/17/23 09:30

Matrix: Solid

Date Received: 02/21/23 15:06

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	33.5	J	50.0	15.0	mg/Kg		02/24/23 08:37	02/24/23 18:00	1
>C12-C28	236		50.0	15.0	mg/Kg		02/24/23 08:37	02/24/23 18:00	1
>C28-C35	101		50.0	15.0	mg/Kg		02/24/23 08:37	02/24/23 18:00	1
Total TPH 1005	371		50.0	15.0	mg/Kg			02/26/23 14:36	1
Surrogate									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130				02/24/23 08:37	02/24/23 18:00	1
o-Terphenyl (Surr)	97		70 - 130				02/24/23 08:37	02/24/23 18:00	1

5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2310	F1	24.8	1.96	mg/Kg			02/27/23 03:11	5

Client Sample ID: 2. North Side

Lab Sample ID: 820-7494-2

Date Collected: 02/17/23 09:30

Matrix: Solid

Date Received: 02/21/23 15:06

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	32.0	J	49.8	14.9	mg/Kg		02/24/23 08:37	02/24/23 17:39	1
>C12-C28	42.5	J	49.8	14.9	mg/Kg		02/24/23 08:37	02/24/23 17:39	1
>C28-C35	<14.9	U	49.8	14.9	mg/Kg		02/24/23 08:37	02/24/23 17:39	1
Total TPH 1005	74.5		49.8	14.9	mg/Kg			02/26/23 14:36	1
Surrogate									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130				02/24/23 08:37	02/24/23 17:39	1
o-Terphenyl (Surr)	90		70 - 130				02/24/23 08:37	02/24/23 17:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1570		25.0	1.97	mg/Kg			02/27/23 03:28	5

Client Sample ID: 3. South Side

Lab Sample ID: 820-7494-3

Date Collected: 02/17/23 09:30

Matrix: Solid

Date Received: 02/21/23 15:06

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	26.7	J	49.9	15.0	mg/Kg		02/24/23 08:37	02/24/23 18:20	1
>C12-C28	524		49.9	15.0	mg/Kg		02/24/23 08:37	02/24/23 18:20	1
>C28-C35	210		49.9	15.0	mg/Kg		02/24/23 08:37	02/24/23 18:20	1
Total TPH 1005	761		49.9	15.0	mg/Kg			02/26/23 14:36	1
Surrogate									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	119		70 - 130				02/24/23 08:37	02/24/23 18:20	1
o-Terphenyl (Surr)	104		70 - 130				02/24/23 08:37	02/24/23 18:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10600		99.4	7.85	mg/Kg			02/27/23 03:33	20

Eurofins Lubbock

Client Sample Results

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-7494-1

Client Sample ID: 4. SW Corner

Lab Sample ID: 820-7494-4

Date Collected: 02/17/23 09:30

Matrix: Solid

Date Received: 02/21/23 15:06

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	30.3	J	49.9	15.0	mg/Kg		02/24/23 08:37	02/24/23 17:18	1
>C12-C28	26.8	J	49.9	15.0	mg/Kg		02/24/23 08:37	02/24/23 17:18	1
>C28-C35	<15.0	U	49.9	15.0	mg/Kg		02/24/23 08:37	02/24/23 17:18	1
Total TPH 1005	57.1		49.9	15.0	mg/Kg			02/26/23 14:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130				02/24/23 08:37	02/24/23 17:18	1
o-Terphenyl (Surr)	92		70 - 130				02/24/23 08:37	02/24/23 17:18	1

5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1040		25.0	1.98	mg/Kg			02/27/23 03:39	5

Client Sample ID: 5. NW Corner

Lab Sample ID: 820-7494-5

Date Collected: 02/17/23 09:30

Matrix: Solid

Date Received: 02/21/23 15:06

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	25.7	J	49.9	15.0	mg/Kg		02/24/23 08:37	02/24/23 18:42	1
>C12-C28	228		49.9	15.0	mg/Kg		02/24/23 08:37	02/24/23 18:42	1
>C28-C35	130		49.9	15.0	mg/Kg		02/24/23 08:37	02/24/23 18:42	1
Total TPH 1005	384		49.9	15.0	mg/Kg			02/26/23 14:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130				02/24/23 08:37	02/24/23 18:42	1
o-Terphenyl (Surr)	87		70 - 130				02/24/23 08:37	02/24/23 18:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	137		5.00	0.395	mg/Kg			02/27/23 03:45	1

Client Sample ID: 6. East Side

Lab Sample ID: 820-7494-6

Date Collected: 02/17/23 09:30

Matrix: Solid

Date Received: 02/21/23 15:06

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	25.5	J	50.0	15.0	mg/Kg		02/24/23 08:37	02/24/23 19:02	1
>C12-C28	453		50.0	15.0	mg/Kg		02/24/23 08:37	02/24/23 19:02	1
>C28-C35	143		50.0	15.0	mg/Kg		02/24/23 08:37	02/24/23 19:02	1
Total TPH 1005	622		50.0	15.0	mg/Kg			02/26/23 14:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130				02/24/23 08:37	02/24/23 19:02	1
o-Terphenyl (Surr)	103		70 - 130				02/24/23 08:37	02/24/23 19:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3540		24.8	1.96	mg/Kg			02/27/23 04:02	5

Eurofins Lubbock

Surrogate Summary

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-7494-1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO (70-130)	OTPH (70-130)
820-7494-1	1. Battery	110	97
820-7494-2	2. North Side	96	90
820-7494-3	3. South Side	119	104
820-7494-4	4. SW Corner	99	92
820-7494-5	5. NW Corner	99	87
820-7494-6	6. East Side	116	103
LCS 880-47141/2-A	Lab Control Sample	98	87
LCSD 880-47141/3-A	Lab Control Sample Dup	113	97
MB 880-47141/1-A	Method Blank	124	118

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

6

QC Sample Results

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-7494-1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Lab Sample ID: MB 880-47141/1-A
Matrix: Solid
Analysis Batch: 47136

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 47141

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<15.0	U	50.0	15.0	mg/Kg		02/24/23 08:37	02/24/23 08:58	1
>C12-C28	<15.0	U	50.0	15.0	mg/Kg		02/24/23 08:37	02/24/23 08:58	1
>C28-C35	<15.0	U	50.0	15.0	mg/Kg		02/24/23 08:37	02/24/23 08:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	124		70 - 130	02/24/23 08:37	02/24/23 08:58	1
o-Terphenyl (Surr)	118		70 - 130	02/24/23 08:37	02/24/23 08:58	1

Lab Sample ID: LCS 880-47141/2-A
Matrix: Solid
Analysis Batch: 47136

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 47141

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C6-C12	1000	859.2		mg/Kg		86	75 - 125
>C12-C28	1000	841.4		mg/Kg		84	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	98		70 - 130
o-Terphenyl (Surr)	87		70 - 130

Lab Sample ID: LCSD 880-47141/3-A
Matrix: Solid
Analysis Batch: 47136

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 47141

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
C6-C12	1000	811.4		mg/Kg		81	75 - 125	6	25
>C12-C28	1000	879.1		mg/Kg		88	75 - 125	4	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	113		70 - 130
o-Terphenyl (Surr)	97		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47148/1-A
Matrix: Solid
Analysis Batch: 47261

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			02/27/23 02:54	1

Lab Sample ID: LCS 880-47148/2-A
Matrix: Solid
Analysis Batch: 47261

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	258.3		mg/Kg		103	90 - 110

Eurofins Lubbock

QC Sample Results

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-7494-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-47148/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 47261											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	254.7		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 820-7494-1 MS				Client Sample ID: 1. Battery							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 47261											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2310	F1	1240	2966	F1	mg/Kg		53	90 - 110		

Lab Sample ID: 820-7494-1 MSD				Client Sample ID: 1. Battery							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 47261											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2310	F1	1240	2969	F1	mg/Kg		53	90 - 110	0	20



QC Association Summary

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-7494-1

GC Semi VOA

Analysis Batch: 47136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7494-1	1. Battery	Total/NA	Solid	TX 1005	47141
820-7494-2	2. North Side	Total/NA	Solid	TX 1005	47141
820-7494-3	3. South Side	Total/NA	Solid	TX 1005	47141
820-7494-4	4. SW Corner	Total/NA	Solid	TX 1005	47141
820-7494-5	5. NW Corner	Total/NA	Solid	TX 1005	47141
820-7494-6	6. East Side	Total/NA	Solid	TX 1005	47141
MB 880-47141/1-A	Method Blank	Total/NA	Solid	TX 1005	47141
LCS 880-47141/2-A	Lab Control Sample	Total/NA	Solid	TX 1005	47141
LCSD 880-47141/3-A	Lab Control Sample Dup	Total/NA	Solid	TX 1005	47141

Prep Batch: 47141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7494-1	1. Battery	Total/NA	Solid	TX_1005_S_Pre p	
820-7494-2	2. North Side	Total/NA	Solid	TX_1005_S_Pre p	
820-7494-3	3. South Side	Total/NA	Solid	TX_1005_S_Pre p	
820-7494-4	4. SW Corner	Total/NA	Solid	TX_1005_S_Pre p	
820-7494-5	5. NW Corner	Total/NA	Solid	TX_1005_S_Pre p	
820-7494-6	6. East Side	Total/NA	Solid	TX_1005_S_Pre p	
MB 880-47141/1-A	Method Blank	Total/NA	Solid	TX_1005_S_Pre p	
LCS 880-47141/2-A	Lab Control Sample	Total/NA	Solid	TX_1005_S_Pre p	
LCSD 880-47141/3-A	Lab Control Sample Dup	Total/NA	Solid	TX_1005_S_Pre p	

Analysis Batch: 47250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7494-1	1. Battery	Total/NA	Solid	TX 1005	
820-7494-2	2. North Side	Total/NA	Solid	TX 1005	
820-7494-3	3. South Side	Total/NA	Solid	TX 1005	
820-7494-4	4. SW Corner	Total/NA	Solid	TX 1005	
820-7494-5	5. NW Corner	Total/NA	Solid	TX 1005	
820-7494-6	6. East Side	Total/NA	Solid	TX 1005	

HPLC/IC

Leach Batch: 47148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7494-1	1. Battery	Soluble	Solid	DI Leach	
820-7494-2	2. North Side	Soluble	Solid	DI Leach	
820-7494-3	3. South Side	Soluble	Solid	DI Leach	
820-7494-4	4. SW Corner	Soluble	Solid	DI Leach	
820-7494-5	5. NW Corner	Soluble	Solid	DI Leach	
820-7494-6	6. East Side	Soluble	Solid	DI Leach	
MB 880-47148/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47148/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47148/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-7494-1 MS	1. Battery	Soluble	Solid	DI Leach	

Eurofins Lubbock

QC Association Summary

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-7494-1

HPLC/IC (Continued)

Leach Batch: 47148 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7494-1 MSD	1. Battery	Soluble	Solid	DI Leach	

Analysis Batch: 47261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7494-1	1. Battery	Soluble	Solid	300.0	47148
820-7494-2	2. North Side	Soluble	Solid	300.0	47148
820-7494-3	3. South Side	Soluble	Solid	300.0	47148
820-7494-4	4. SW Corner	Soluble	Solid	300.0	47148
820-7494-5	5. NW Corner	Soluble	Solid	300.0	47148
820-7494-6	6. East Side	Soluble	Solid	300.0	47148
MB 880-47148/1-A	Method Blank	Soluble	Solid	300.0	47148
LCS 880-47148/2-A	Lab Control Sample	Soluble	Solid	300.0	47148
LCSD 880-47148/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47148
820-7494-1 MS	1. Battery	Soluble	Solid	300.0	47148
820-7494-1 MSD	1. Battery	Soluble	Solid	300.0	47148

8

Lab Chronicle

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-7494-1

Client Sample ID: 1. Battery

Lab Sample ID: 820-7494-1

Date Collected: 02/17/23 09:30

Matrix: Solid

Date Received: 02/21/23 15:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			10.01 g	10 mL	47141	02/24/23 08:37	AM	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	47136	02/24/23 18:00	SM	EET MID
Total/NA	Analysis	TX 1005		1			47250	02/26/23 14:36	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47148	02/24/23 10:27	KS	EET MID
Soluble	Analysis	300.0		5			47261	02/27/23 03:11	CH	EET MID

Client Sample ID: 2. North Side

Lab Sample ID: 820-7494-2

Date Collected: 02/17/23 09:30

Matrix: Solid

Date Received: 02/21/23 15:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			10.04 g	10 mL	47141	02/24/23 08:37	AM	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	47136	02/24/23 17:39	SM	EET MID
Total/NA	Analysis	TX 1005		1			47250	02/26/23 14:36	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47148	02/24/23 10:27	KS	EET MID
Soluble	Analysis	300.0		5			47261	02/27/23 03:28	CH	EET MID

Client Sample ID: 3. South Side

Lab Sample ID: 820-7494-3

Date Collected: 02/17/23 09:30

Matrix: Solid

Date Received: 02/21/23 15:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			10.02 g	10 mL	47141	02/24/23 08:37	AM	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	47136	02/24/23 18:20	SM	EET MID
Total/NA	Analysis	TX 1005		1			47250	02/26/23 14:36	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47148	02/24/23 10:27	KS	EET MID
Soluble	Analysis	300.0		20			47261	02/27/23 03:33	CH	EET MID

Client Sample ID: 4. SW Corner

Lab Sample ID: 820-7494-4

Date Collected: 02/17/23 09:30

Matrix: Solid

Date Received: 02/21/23 15:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			10.03 g	10 mL	47141	02/24/23 08:37	AM	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	47136	02/24/23 17:18	SM	EET MID
Total/NA	Analysis	TX 1005		1			47250	02/26/23 14:36	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47148	02/24/23 10:27	KS	EET MID
Soluble	Analysis	300.0		5			47261	02/27/23 03:39	CH	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-7494-1

Client Sample ID: 5. NW Corner

Lab Sample ID: 820-7494-5

Date Collected: 02/17/23 09:30

Matrix: Solid

Date Received: 02/21/23 15:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			10.02 g	10 mL	47141	02/24/23 08:37	AM	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	47136	02/24/23 18:42	SM	EET MID
Total/NA	Analysis	TX 1005		1			47250	02/26/23 14:36	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47148	02/24/23 10:27	KS	EET MID
Soluble	Analysis	300.0		1			47261	02/27/23 03:45	CH	EET MID

Client Sample ID: 6. East Side

Lab Sample ID: 820-7494-6

Date Collected: 02/17/23 09:30

Matrix: Solid

Date Received: 02/21/23 15:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			10.01 g	10 mL	47141	02/24/23 08:37	AM	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	47136	02/24/23 19:02	SM	EET MID
Total/NA	Analysis	TX 1005		1			47250	02/26/23 14:36	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	47148	02/24/23 10:27	KS	EET MID
Soluble	Analysis	300.0		5			47261	02/27/23 04:02	CH	EET MID

Laboratory References:

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

9

Accreditation/Certification Summary

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-7494-1

Laboratory: Eurofins Midland

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

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
Texas	NELAP	T104704400-22-25	06-30-23

10

Method Summary

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-7494-1

Method	Method Description	Protocol	Laboratory
TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	TCEQ	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
TX_1005_S_Prep	Extraction - Texas Total petroleum Hydrocarbons	TCEQ	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

TCEQ = Texas Commission of Environmental Quality

Laboratory References:

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



Sample Summary

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-7494-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
820-7494-1	1. Battery	Solid	02/17/23 09:30	02/21/23 15:06
820-7494-2	2. North Side	Solid	02/17/23 09:30	02/21/23 15:06
820-7494-3	3. South Side	Solid	02/17/23 09:30	02/21/23 15:06
820-7494-4	4. SW Corner	Solid	02/17/23 09:30	02/21/23 15:06
820-7494-5	5. NW Corner	Solid	02/17/23 09:30	02/21/23 15:06
820-7494-6	6. East Side	Solid	02/17/23 09:30	02/21/23 15:06

12

Loc: 820
7494

eurofins

Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199



820-7494 Chain of Custody

www.xenco.com Page 1 of 1

Project Manager:	JACK YATES	Bill to: (if different)	
Company Name:	Buckeye Disposal	Company Name:	
Address:	2310 FORDHAM	Address:	
City, State ZIP:	LUBBOCK, TX 79408	City, State ZIP:	
Phone:	806 241-7405	Email:	jack@buckeyedisposal.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:	AF SWD	Turn Around		ANALYSIS REQUEST												Preservative Codes				
Project Number:	State AF #3	<input type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code																None: NO	DI Water: H ₂ O
Project Location:		Due Date:																	Cool: Cool	MeOH: Me
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm																	HCL: HC	HNO ₃ : HN
PO #:																			H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT		Temp Blank:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wet Ice:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Parameters Hydrocarbons Chlorides												H ₃ PO ₄ : HP		
Samples Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	IK-4		NaHSO ₄ : NABIS															
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Correction Factor:	-0.1		Na ₂ S ₂ O ₃ : NaSO ₃															
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Temperature Reading:	22.7		Zn Acetate+NaOH: Zn															
Total Containers:	6	Corrected Temperature:	22.6		NaOH+Ascorbic Acid: SAPC															
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont													Sample Comments	
1. BATTERY		2/17/23	9:30AM																	
2. NORTH SIDE																				
3. SOUTH SIDE																				
4. SW CORNER																				
5. NW CORNER																				
6. EAST SIDE																				

PAID
\$410 by CE

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		2/21/23 15:06			

jack@berasteinenterprises.com
OCD Ex. 21-051

13

Page 18 of 20

2/28/2023 (Rev. 1)

Login Sample Receipt Checklist

Client: Buckeye Disposals

Job Number: 820-7494-1

Login Number: 7494

List Source: Eurofins Lubbock

List Number: 1

Creator: Ruggles, Ashley

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

14

Login Sample Receipt Checklist

Client: Buckeye Disposals

Job Number: 820-7494-1

Login Number: 7494

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 02/22/23 12:07 PM

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

14

7/12/2022
73K
+ Nov
+ Sept, Oct 2022



ANALYTICAL REPORT

PREPARED FOR

Attn: Jack Yates
Buckeye Disposals
2310 Fordham
Lubbock, Texas 79408
Generated 5/26/2023 10:23:42 AM

JOB DESCRIPTION

State AF #3

JOB NUMBER

820-8586-1

Eurofins Lubbock

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Generated
5/26/2023 10:23:42 AM

Authorized for release by
Holly Taylor, Project Manager
Holly.Taylor@et.eurofinsus.com
(806)794-1296



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	13
Lab Chronicle	16
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Receipt Checklists	23

Definitions/Glossary

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-8586-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-8586-1

Job ID: 820-8586-1

Laboratory: Eurofins Lubbock

Narrative

**Job Narrative
820-8586-1**

Receipt

The samples were received on 5/24/2023 1:09 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 23.3°C

GC Semi VOA

Method TX_1005: The surrogate recovery for the blank associated with preparation batch 880-54171 and analytical batch 880-54123 was outside the upper control limits.

Method TX_1005: Surrogate recovery for the following samples were outside control limits: (CCV 880-54123/31), (CCV 880-54123/57) and (CCV 880-54123/58). Evidence of matrix interferences is not obvious.

Method TX_1005: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-54171 and analytical batch 880-54123 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

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



Client Sample Results

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-8586-1

Client Sample ID: Site #1 @ 3'

Lab Sample ID: 820-8586-1

Date Collected: 05/16/23 13:00

Matrix: Solid

Date Received: 05/24/23 13:09

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	85.6		49.9	15.0	mg/Kg		05/25/23 13:41	05/26/23 00:04	1
>C12-C28	1070		49.9	15.0	mg/Kg		05/25/23 13:41	05/26/23 00:04	1
>C28-C35	261		49.9	15.0	mg/Kg		05/25/23 13:41	05/26/23 00:04	1
Total TPH 1005	1420		49.9	15.0	mg/Kg			05/26/23 08:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130	05/25/23 13:41	05/26/23 00:04	1
o-Terphenyl (Surr)	109		70 - 130	05/25/23 13:41	05/26/23 00:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5880		49.9	3.94	mg/Kg			05/26/23 00:29	10

Client Sample ID: Site #2 @ 3'

Lab Sample ID: 820-8586-2

Date Collected: 05/16/23 13:00

Matrix: Solid

Date Received: 05/24/23 13:09

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<13.2	U	44.1	13.2	mg/Kg		05/25/23 13:41	05/25/23 21:00	1
>C12-C28	72.5	F1	44.1	13.2	mg/Kg		05/25/23 13:41	05/25/23 21:00	1
>C28-C35	20.6	J	44.1	13.2	mg/Kg		05/25/23 13:41	05/25/23 21:00	1
Total TPH 1005	93.1		44.1	13.2	mg/Kg			05/26/23 08:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130	05/25/23 13:41	05/25/23 21:00	1
o-Terphenyl (Surr)	106		70 - 130	05/25/23 13:41	05/25/23 21:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2640		25.0	1.98	mg/Kg			05/26/23 00:46	5

Client Sample ID: Site #3 @ 3'

Lab Sample ID: 820-8586-3

Date Collected: 05/16/23 13:00

Matrix: Solid

Date Received: 05/24/23 13:09

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<12.7	U	42.3	12.7	mg/Kg		05/25/23 13:41	05/25/23 22:42	1
>C12-C28	41.8	J	42.3	12.7	mg/Kg		05/25/23 13:41	05/25/23 22:42	1
>C28-C35	<12.7	U	42.3	12.7	mg/Kg		05/25/23 13:41	05/25/23 22:42	1
Total TPH 1005	41.8	J	42.3	12.7	mg/Kg			05/26/23 08:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130	05/25/23 13:41	05/25/23 22:42	1
o-Terphenyl (Surr)	100		70 - 130	05/25/23 13:41	05/25/23 22:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2540		25.0	1.98	mg/Kg			05/26/23 00:51	5

Eurofins Lubbock

Client Sample Results

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-8586-1

Client Sample ID: Site #4 @ 3'

Lab Sample ID: 820-8586-4

Date Collected: 05/16/23 13:00

Matrix: Solid

Date Received: 05/24/23 13:09

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<11.9	U	39.6	11.9	mg/Kg		05/25/23 13:41	05/25/23 23:02	1
>C12-C28	55.1		39.6	11.9	mg/Kg		05/25/23 13:41	05/25/23 23:02	1
>C28-C35	<11.9	U	39.6	11.9	mg/Kg		05/25/23 13:41	05/25/23 23:02	1
Total TPH 1005	55.1		39.6	11.9	mg/Kg			05/26/23 08:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130	05/25/23 13:41	05/25/23 23:02	1
o-Terphenyl (Surr)	102		70 - 130	05/25/23 13:41	05/25/23 23:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2460		24.8	1.96	mg/Kg			05/26/23 00:57	5

Client Sample ID: Site #5 @ 3'

Lab Sample ID: 820-8586-5

Date Collected: 05/16/23 13:00

Matrix: Solid

Date Received: 05/24/23 13:09

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<12.6	U	41.9	12.6	mg/Kg		05/25/23 13:41	05/25/23 23:23	1
>C12-C28	57.2		41.9	12.6	mg/Kg		05/25/23 13:41	05/25/23 23:23	1
>C28-C35	13.0	J	41.9	12.6	mg/Kg		05/25/23 13:41	05/25/23 23:23	1
Total TPH 1005	70.2		41.9	12.6	mg/Kg			05/26/23 08:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130	05/25/23 13:41	05/25/23 23:23	1
o-Terphenyl (Surr)	90		70 - 130	05/25/23 13:41	05/25/23 23:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3040		25.2	1.99	mg/Kg			05/26/23 01:02	5

Client Sample ID: Site #6 @ 3'

Lab Sample ID: 820-8586-6

Date Collected: 05/16/23 13:00

Matrix: Solid

Date Received: 05/24/23 13:09

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<13.2	U	43.9	13.2	mg/Kg		05/25/23 13:41	05/25/23 23:44	1
>C12-C28	203		43.9	13.2	mg/Kg		05/25/23 13:41	05/25/23 23:44	1
>C28-C35	87.5		43.9	13.2	mg/Kg		05/25/23 13:41	05/25/23 23:44	1
Total TPH 1005	291		43.9	13.2	mg/Kg			05/26/23 08:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130	05/25/23 13:41	05/25/23 23:44	1
o-Terphenyl (Surr)	100		70 - 130	05/25/23 13:41	05/25/23 23:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	922		5.01	0.396	mg/Kg			05/26/23 01:07	1

Eurofins Lubbock

Client Sample Results

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-8586-1

Client Sample ID: Site #7 @ 1'

Lab Sample ID: 820-8586-7

Date Collected: 05/16/23 13:00

Matrix: Solid

Date Received: 05/24/23 13:09

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<74.8	U	249	74.8	mg/Kg		05/25/23 13:41	05/26/23 01:25	5
>C12-C28	1160		249	74.8	mg/Kg		05/25/23 13:41	05/26/23 01:25	5
>C28-C35	433		249	74.8	mg/Kg		05/25/23 13:41	05/26/23 01:25	5
Total TPH 1005	1590		249	74.8	mg/Kg			05/26/23 08:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130	05/25/23 13:41	05/26/23 01:25	5
o-Terphenyl (Surr)	103		70 - 130	05/25/23 13:41	05/26/23 01:25	5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2820		24.9	1.97	mg/Kg			05/26/23 01:13	5

Client Sample ID: Site #7 @ 3'

Lab Sample ID: 820-8586-8

Date Collected: 05/16/23 13:00

Matrix: Solid

Date Received: 05/24/23 13:09

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<74.9	U	250	74.9	mg/Kg		05/25/23 13:41	05/26/23 01:46	5
>C12-C28	1320		250	74.9	mg/Kg		05/25/23 13:41	05/26/23 01:46	5
>C28-C35	515		250	74.9	mg/Kg		05/25/23 13:41	05/26/23 01:46	5
Total TPH 1005	1840		250	74.9	mg/Kg			05/26/23 08:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130	05/25/23 13:41	05/26/23 01:46	5
o-Terphenyl (Surr)	102		70 - 130	05/25/23 13:41	05/26/23 01:46	5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2680		24.8	1.96	mg/Kg			05/26/23 01:18	5

Client Sample ID: Site #8 @1'

Lab Sample ID: 820-8586-9

Date Collected: 05/16/23 13:00

Matrix: Solid

Date Received: 05/24/23 13:09

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<15.0	U	50.0	15.0	mg/Kg		05/25/23 13:41	05/26/23 00:24	1
>C12-C28	1480		50.0	15.0	mg/Kg		05/25/23 13:41	05/26/23 00:24	1
>C28-C35	402		50.0	15.0	mg/Kg		05/25/23 13:41	05/26/23 00:24	1
Total TPH 1005	1880		50.0	15.0	mg/Kg			05/26/23 08:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130	05/25/23 13:41	05/26/23 00:24	1
o-Terphenyl (Surr)	99		70 - 130	05/25/23 13:41	05/26/23 00:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4110		50.4	3.98	mg/Kg			05/26/23 09:09	10

Eurofins Lubbock

Client Sample Results

Client: Buckeye Disposals
 Project/Site: State AF #3

Job ID: 820-8586-1

Client Sample ID: Site #8 @3'

Lab Sample ID: 820-8586-10

Date Collected: 05/16/23 13:00

Matrix: Solid

Date Received: 05/24/23 13:09

Method: TCEQ TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	<14.9	U	49.8	14.9	mg/Kg		05/25/23 13:41	05/26/23 00:45	1
>C12-C28	1130		49.8	14.9	mg/Kg		05/25/23 13:41	05/26/23 00:45	1
>C28-C35	298		49.8	14.9	mg/Kg		05/25/23 13:41	05/26/23 00:45	1
Total TPH 1005	1430		49.8	14.9	mg/Kg			05/26/23 08:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130	05/25/23 13:41	05/26/23 00:45	1
o-Terphenyl (Surr)	102		70 - 130	05/25/23 13:41	05/26/23 00:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6190		50.1	3.96	mg/Kg			05/26/23 09:14	10

Surrogate Summary

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-8586-1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO (70-130)	OTPH (70-130)
820-8586-1	Site #1 @ 3'	106	109
820-8586-2	Site #2 @ 3'	101	106
820-8586-2 MS	Site #2 @ 3'	97	92
820-8586-2 MSD	Site #2 @ 3'	96	89
820-8586-3	Site #3 @ 3'	98	100
820-8586-4	Site #4 @ 3'	99	102
820-8586-5	Site #5 @ 3'	93	90
820-8586-6	Site #6 @ 3'	98	100
820-8586-7	Site #7 @ 1'	98	103
820-8586-8	Site #7 @ 3'	99	102
820-8586-9	Site #8 @ 1'	97	99
820-8586-10	Site #8 @ 3'	100	102
LCS 880-54171/2-A	Lab Control Sample	111	106
LCSD 880-54171/3-A	Lab Control Sample Dup	105	106
MB 880-54171/1-A	Method Blank	175 S1+	180 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-8586-1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Lab Sample ID: MB 880-54171/1-A
Matrix: Solid
Analysis Batch: 54123

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 54171

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C6-C12	<15.0	U	50.0	15.0	mg/Kg		05/25/23 13:41	05/25/23 19:59	1
>C12-C28	<15.0	U	50.0	15.0	mg/Kg		05/25/23 13:41	05/25/23 19:59	1
>C28-C35	<15.0	U	50.0	15.0	mg/Kg		05/25/23 13:41	05/25/23 19:59	1
MB MB									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	175	S1+	70 - 130				05/25/23 13:41	05/25/23 19:59	1
o-Terphenyl (Surr)	180	S1+	70 - 130				05/25/23 13:41	05/25/23 19:59	1

Lab Sample ID: LCS 880-54171/2-A
Matrix: Solid
Analysis Batch: 54123

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 54171

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
C6-C12	1000	977.5		mg/Kg		98	75 - 125
>C12-C28	1000	1062		mg/Kg		106	75 - 125
LCS LCS							
Surrogate	%Recovery	Qualifier	Limits				
1-Chlorooctane (Surr)	111		70 - 130				
o-Terphenyl (Surr)	106		70 - 130				

Lab Sample ID: LCSD 880-54171/3-A
Matrix: Solid
Analysis Batch: 54123

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 54171

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
C6-C12	1000	940.1		mg/Kg		94	75 - 125	4	25
>C12-C28	1000	1038		mg/Kg		104	75 - 125	2	25
LCSD LCSD									
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane (Surr)	105		70 - 130						
o-Terphenyl (Surr)	106		70 - 130						

Lab Sample ID: 820-8586-2 MS
Matrix: Solid
Analysis Batch: 54123

Client Sample ID: Site #2 @ 3'
Prep Type: Total/NA
Prep Batch: 54171

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
C6-C12	<13.2	U	998	838.9		mg/Kg		84	75 - 125
>C12-C28	72.5	F1	998	723.0	F1	mg/Kg		65	75 - 125
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane (Surr)	97		70 - 130						
o-Terphenyl (Surr)	92		70 - 130						

QC Sample Results

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-8586-1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) (Continued)

Lab Sample ID: 820-8586-2 MSD

Matrix: Solid

Analysis Batch: 54123

Client Sample ID: Site #2 @ 3'

Prep Type: Total/NA

Prep Batch: 54171

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
C6-C12	<13.2	U	997	840.0		mg/Kg		84	75 - 125	0	25
>C12-C28	72.5	F1	997	687.5	F1	mg/Kg		62	75 - 125	5	25
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	96		70 - 130								
o-Terphenyl (Surr)	89		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-54136/1-A

Matrix: Solid

Analysis Batch: 54185

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.395	U	5.00	0.395	mg/Kg			05/25/23 22:35	1

Lab Sample ID: LCS 880-54136/2-A

Matrix: Solid

Analysis Batch: 54185

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	RPD	Limit
		Result	Qualifier				Limits		
Chloride	250	248.1		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-54136/3-A

Matrix: Solid

Analysis Batch: 54185

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
		Result	Qualifier				Limits		
Chloride	250	256.9		mg/Kg		103	90 - 110	4	20

Lab Sample ID: MB 880-54133/1-A

Matrix: Solid

Analysis Batch: 54227

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.395	U	5.00	0.395	mg/Kg			05/26/23 06:38	1

Lab Sample ID: LCS 880-54133/2-A

Matrix: Solid

Analysis Batch: 54227

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	RPD	Limit
		Result	Qualifier				Limits		
Chloride	250	252.7		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-54133/3-A

Matrix: Solid

Analysis Batch: 54227

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
		Result	Qualifier				Limits		
Chloride	250	253.6		mg/Kg		101	90 - 110	0	20

Eurofins Lubbock

QC Association Summary

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-8586-1

GC Semi VOA

Analysis Batch: 54123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-8586-1	Site #1 @ 3'	Total/NA	Solid	TX 1005	54171
820-8586-2	Site #2 @ 3'	Total/NA	Solid	TX 1005	54171
820-8586-3	Site #3 @ 3'	Total/NA	Solid	TX 1005	54171
820-8586-4	Site #4 @ 3'	Total/NA	Solid	TX 1005	54171
820-8586-5	Site #5 @ 3'	Total/NA	Solid	TX 1005	54171
820-8586-6	Site #6 @ 3'	Total/NA	Solid	TX 1005	54171
820-8586-7	Site #7 @ 1'	Total/NA	Solid	TX 1005	54171
820-8586-8	Site #7 @ 3'	Total/NA	Solid	TX 1005	54171
820-8586-9	Site #8 @ 1'	Total/NA	Solid	TX 1005	54171
820-8586-10	Site #8 @ 3'	Total/NA	Solid	TX 1005	54171
MB 880-54171/1-A	Method Blank	Total/NA	Solid	TX 1005	54171
LCS 880-54171/2-A	Lab Control Sample	Total/NA	Solid	TX 1005	54171
LCSD 880-54171/3-A	Lab Control Sample Dup	Total/NA	Solid	TX 1005	54171
820-8586-2 MS	Site #2 @ 3'	Total/NA	Solid	TX 1005	54171
820-8586-2 MSD	Site #2 @ 3'	Total/NA	Solid	TX 1005	54171

Prep Batch: 54171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-8586-1	Site #1 @ 3'	Total/NA	Solid	TX_1005_S_Pre p	
820-8586-2	Site #2 @ 3'	Total/NA	Solid	TX_1005_S_Pre p	
820-8586-3	Site #3 @ 3'	Total/NA	Solid	TX_1005_S_Pre p	
820-8586-4	Site #4 @ 3'	Total/NA	Solid	TX_1005_S_Pre p	
820-8586-5	Site #5 @ 3'	Total/NA	Solid	TX_1005_S_Pre p	
820-8586-6	Site #6 @ 3'	Total/NA	Solid	TX_1005_S_Pre p	
820-8586-7	Site #7 @ 1'	Total/NA	Solid	TX_1005_S_Pre p	
820-8586-8	Site #7 @ 3'	Total/NA	Solid	TX_1005_S_Pre p	
820-8586-9	Site #8 @ 1'	Total/NA	Solid	TX_1005_S_Pre p	
820-8586-10	Site #8 @ 3'	Total/NA	Solid	TX_1005_S_Pre p	
MB 880-54171/1-A	Method Blank	Total/NA	Solid	TX_1005_S_Pre p	
LCS 880-54171/2-A	Lab Control Sample	Total/NA	Solid	TX_1005_S_Pre p	
LCSD 880-54171/3-A	Lab Control Sample Dup	Total/NA	Solid	TX_1005_S_Pre p	
820-8586-2 MS	Site #2 @ 3'	Total/NA	Solid	TX_1005_S_Pre p	
820-8586-2 MSD	Site #2 @ 3'	Total/NA	Solid	TX_1005_S_Pre p	

Analysis Batch: 54212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-8586-1	Site #1 @ 3'	Total/NA	Solid	TX 1005	
820-8586-2	Site #2 @ 3'	Total/NA	Solid	TX 1005	
820-8586-3	Site #3 @ 3'	Total/NA	Solid	TX 1005	
820-8586-4	Site #4 @ 3'	Total/NA	Solid	TX 1005	

Eurofins Lubbock



QC Association Summary

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-8586-1

GC Semi VOA (Continued)

Analysis Batch: 54212 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-8586-5	Site #5 @ 3'	Total/NA	Solid	TX 1005	
820-8586-6	Site #6 @ 3'	Total/NA	Solid	TX 1005	
820-8586-7	Site #7 @ 1'	Total/NA	Solid	TX 1005	
820-8586-8	Site #7 @ 3'	Total/NA	Solid	TX 1005	
820-8586-9	Site #8 @ 1'	Total/NA	Solid	TX 1005	
820-8586-10	Site #8 @ 3'	Total/NA	Solid	TX 1005	

HPLC/IC

Leach Batch: 54133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-8586-9	Site #8 @ 1'	Soluble	Solid	DI Leach	
820-8586-10	Site #8 @ 3'	Soluble	Solid	DI Leach	
MB 880-54133/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-54133/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-54133/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 54136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-8586-1	Site #1 @ 3'	Soluble	Solid	DI Leach	
820-8586-2	Site #2 @ 3'	Soluble	Solid	DI Leach	
820-8586-3	Site #3 @ 3'	Soluble	Solid	DI Leach	
820-8586-4	Site #4 @ 3'	Soluble	Solid	DI Leach	
820-8586-5	Site #5 @ 3'	Soluble	Solid	DI Leach	
820-8586-6	Site #6 @ 3'	Soluble	Solid	DI Leach	
820-8586-7	Site #7 @ 1'	Soluble	Solid	DI Leach	
820-8586-8	Site #7 @ 3'	Soluble	Solid	DI Leach	
MB 880-54136/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-54136/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-54136/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 54185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-8586-1	Site #1 @ 3'	Soluble	Solid	300.0	54136
820-8586-2	Site #2 @ 3'	Soluble	Solid	300.0	54136
820-8586-3	Site #3 @ 3'	Soluble	Solid	300.0	54136
820-8586-4	Site #4 @ 3'	Soluble	Solid	300.0	54136
820-8586-5	Site #5 @ 3'	Soluble	Solid	300.0	54136
820-8586-6	Site #6 @ 3'	Soluble	Solid	300.0	54136
820-8586-7	Site #7 @ 1'	Soluble	Solid	300.0	54136
820-8586-8	Site #7 @ 3'	Soluble	Solid	300.0	54136
MB 880-54136/1-A	Method Blank	Soluble	Solid	300.0	54136
LCS 880-54136/2-A	Lab Control Sample	Soluble	Solid	300.0	54136
LCSD 880-54136/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54136

Analysis Batch: 54227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-8586-9	Site #8 @ 1'	Soluble	Solid	300.0	54133
820-8586-10	Site #8 @ 3'	Soluble	Solid	300.0	54133
MB 880-54133/1-A	Method Blank	Soluble	Solid	300.0	54133
LCS 880-54133/2-A	Lab Control Sample	Soluble	Solid	300.0	54133

Eurofins Lubbock

QC Association Summary

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-8586-1

HPLC/IC (Continued)

Analysis Batch: 54227 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-54133/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	54133

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-8586-1

Client Sample ID: Site #1 @ 3'

Lab Sample ID: 820-8586-1

Date Collected: 05/16/23 13:00

Matrix: Solid

Date Received: 05/24/23 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			10.03 g	10 mL	54171	05/25/23 13:41	AJ	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	54123	05/26/23 00:04	SM	EET MID
Total/NA	Analysis	TX 1005		1			54212	05/26/23 08:07	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	54136	05/25/23 10:06	KS	EET MID
Soluble	Analysis	300.0		10			54185	05/26/23 00:29	CH	EET MID

Client Sample ID: Site #2 @ 3'

Lab Sample ID: 820-8586-2

Date Collected: 05/16/23 13:00

Matrix: Solid

Date Received: 05/24/23 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			11.35 g	10 mL	54171	05/25/23 13:41	AJ	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	54123	05/25/23 21:00	SM	EET MID
Total/NA	Analysis	TX 1005		1			54212	05/26/23 08:07	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	54136	05/25/23 10:06	KS	EET MID
Soluble	Analysis	300.0		5			54185	05/26/23 00:46	CH	EET MID

Client Sample ID: Site #3 @ 3'

Lab Sample ID: 820-8586-3

Date Collected: 05/16/23 13:00

Matrix: Solid

Date Received: 05/24/23 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			11.82 g	10 mL	54171	05/25/23 13:41	AJ	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	54123	05/25/23 22:42	SM	EET MID
Total/NA	Analysis	TX 1005		1			54212	05/26/23 08:07	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	54136	05/25/23 10:06	KS	EET MID
Soluble	Analysis	300.0		5			54185	05/26/23 00:51	CH	EET MID

Client Sample ID: Site #4 @ 3'

Lab Sample ID: 820-8586-4

Date Collected: 05/16/23 13:00

Matrix: Solid

Date Received: 05/24/23 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			12.64 g	10 mL	54171	05/25/23 13:41	AJ	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	54123	05/25/23 23:02	SM	EET MID
Total/NA	Analysis	TX 1005		1			54212	05/26/23 08:07	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	54136	05/25/23 10:06	KS	EET MID
Soluble	Analysis	300.0		5			54185	05/26/23 00:57	CH	EET MID

Lab Chronicle

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-8586-1

Client Sample ID: Site #5 @ 3'

Lab Sample ID: 820-8586-5

Date Collected: 05/16/23 13:00

Matrix: Solid

Date Received: 05/24/23 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			11.93 g	10 mL	54171	05/25/23 13:41	AJ	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	54123	05/25/23 23:23	SM	EET MID
Total/NA	Analysis	TX 1005		1			54212	05/26/23 08:07	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	54136	05/25/23 10:06	KS	EET MID
Soluble	Analysis	300.0		5			54185	05/26/23 01:02	CH	EET MID

Client Sample ID: Site #6 @ 3'

Lab Sample ID: 820-8586-6

Date Collected: 05/16/23 13:00

Matrix: Solid

Date Received: 05/24/23 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			11.38 g	10 mL	54171	05/25/23 13:41	AJ	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	54123	05/25/23 23:44	SM	EET MID
Total/NA	Analysis	TX 1005		1			54212	05/26/23 08:07	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	54136	05/25/23 10:06	KS	EET MID
Soluble	Analysis	300.0		1			54185	05/26/23 01:07	CH	EET MID

Client Sample ID: Site #7 @ 1'

Lab Sample ID: 820-8586-7

Date Collected: 05/16/23 13:00

Matrix: Solid

Date Received: 05/24/23 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			10.03 g	10 mL	54171	05/25/23 13:41	AJ	EET MID
Total/NA	Analysis	TX 1005		5	1 uL	1 uL	54123	05/26/23 01:25	SM	EET MID
Total/NA	Analysis	TX 1005		1			54212	05/26/23 08:07	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	54136	05/25/23 10:06	KS	EET MID
Soluble	Analysis	300.0		5			54185	05/26/23 01:13	CH	EET MID

Client Sample ID: Site #7 @ 3'

Lab Sample ID: 820-8586-8

Date Collected: 05/16/23 13:00

Matrix: Solid

Date Received: 05/24/23 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			10.01 g	10 mL	54171	05/25/23 13:41	AJ	EET MID
Total/NA	Analysis	TX 1005		5	1 uL	1 uL	54123	05/26/23 01:46	SM	EET MID
Total/NA	Analysis	TX 1005		1			54212	05/26/23 08:07	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	54136	05/25/23 10:06	KS	EET MID
Soluble	Analysis	300.0		5			54185	05/26/23 01:18	CH	EET MID

Lab Chronicle

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-8586-1

Client Sample ID: Site #8 @1'

Lab Sample ID: 820-8586-9

Date Collected: 05/16/23 13:00

Matrix: Solid

Date Received: 05/24/23 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			10.00 g	10 mL	54171	05/25/23 13:41	AJ	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	54123	05/26/23 00:24	SM	EET MID
Total/NA	Analysis	TX 1005		1			54212	05/26/23 08:07	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	54133	05/25/23 10:01	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	54227	05/26/23 09:09	CH	EET MID

Client Sample ID: Site #8 @3'

Lab Sample ID: 820-8586-10

Date Collected: 05/16/23 13:00

Matrix: Solid

Date Received: 05/24/23 13:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			10.05 g	10 mL	54171	05/25/23 13:41	AJ	EET MID
Total/NA	Analysis	TX 1005		1	1 uL	1 uL	54123	05/26/23 00:45	SM	EET MID
Total/NA	Analysis	TX 1005		1			54212	05/26/23 08:07	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	54133	05/25/23 10:01	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	54227	05/26/23 09:14	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-8586-1

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-8586-1

Method	Method Description	Protocol	Laboratory
TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	TCEQ	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
TX_1005_S_Prep	Extraction - Texas Total petroleum Hyrdocarbons	TCEQ	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

TCEQ = Texas Commission of Environmental Quality

Laboratory References:

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



Sample Summary

Client: Buckeye Disposals
Project/Site: State AF #3

Job ID: 820-8586-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-8586-1	Site #1 @ 3'	Solid	05/16/23 13:00	05/24/23 13:09
820-8586-2	Site #2 @ 3'	Solid	05/16/23 13:00	05/24/23 13:09
820-8586-3	Site #3 @ 3'	Solid	05/16/23 13:00	05/24/23 13:09
820-8586-4	Site #4 @ 3'	Solid	05/16/23 13:00	05/24/23 13:09
820-8586-5	Site #5 @ 3'	Solid	05/16/23 13:00	05/24/23 13:09
820-8586-6	Site #6 @ 3'	Solid	05/16/23 13:00	05/24/23 13:09
820-8586-7	Site #7 @ 1'	Solid	05/16/23 13:00	05/24/23 13:09
820-8586-8	Site #7 @ 3'	Solid	05/16/23 13:00	05/24/23 13:09
820-8586-9	Site #8 @ 1'	Solid	05/16/23 13:00	05/24/23 13:09
820-8586-10	Site #8 @ 3'	Solid	05/16/23 13:00	05/24/23 13:09

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Login Sample Receipt Checklist

Client: Buckeye Disposals

Job Number: 820-8586-1

Login Number: 8586

List Source: Eurofins Lubbock

List Number: 1

Creator: Lee, Randell

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

Login Sample Receipt Checklist

Client: Buckeye Disposals

Job Number: 820-8586-1

Login Number: 8586

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 05/25/23 11:10 AM

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



Appendix D

L02350 Well Log

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1

# 2072-2-137-7			
DPN: 25-11767			
0			

(A) Owner of well National Potash Co.
 Street and Number Box 731
 City Carlsbad State New Mexico
 Well was drilled under Permit No. _____ and is located in the
1/4 SW 1/4 SW 1/4 of Section 6 Twp. 18 S Rge. 35 E
 (B) Drilling Contractor Abbott Bros. License No. WD-46
 Street and Number Box 637
 City Hobbs State New Mexico
 Drilling was commenced March 1 19 60
 Drilling was completed March 5 19 60

(Plat of 640 acres)

Elevation at top of casing in feet above sea level _____ Total depth of well 216
 State whether well is shallow or artesian Shallow Depth to water upon completion 105

Section 2

PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	110	135	25	Water Sand
2	180	212	32	Sand & Gravel
3				
4				
5				

Section 3

RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
12 3/4	40	weld	0	216	216	weld	110	210

Section 4

RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5

PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
 Street and Number _____ City _____ State _____
 Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
 Plugging method used _____ Date Plugged _____ 19 _____
 Plugging approved by: _____ Cement Plugs were placed as follows:

No.	Depth of Plug		No. of Sacks Used
	From	To	

Basin Supervisor _____

FOR USE OF STATE ENGINEER ONLY

Date Received 1960 MAR 17 AM 8:37

File No. L-2350 Use Ind Location No. 18.358.323331

Appendix E
Site Photographs
March 2023



1. Empty ASTs staged for removal



2. Unvegetated area to be reclaimed

Appendix F

Revegetation Seed Mix

2017 Zone 6 Seed List: Southern High Plains

Common Name	Botanical Name	Lbs of PLS*/Acre
Annual quick-cover grasses		
Oats	<i>Avena sativa</i>	0.50
Sterile triticale	<i>Triticum aestivum X Secale cereale</i> 'Quickguard'	0.50
Cool-season grasses		
Bottlebrush squirreltail	<i>Elymus elymoides</i>	1.75
New Mexico feathergrass	<i>Hesperostipa neomexicana</i>	1.00
Western wheatgrass	<i>Agropyron smithii</i>	1.75
Warm-season grasses		
Alkali sacaton	<i>Sporobolus airoides</i>	0.20
Blue grama	<i>Bouteloua gracilis</i> var. <i>Alma</i> **	0.50
Buffalograss	<i>Bouteloua dactyloides</i>	1.00
Galleta	<i>Pleuraphis jamesii</i> var. <i>Viva</i> **	1.00
Little bluestem	<i>Schizachyrium scoparium</i>	0.50
Sand dropseed	<i>Sporobolus cryptandrus</i>	0.05
Sideoats grama	<i>Bouteloua curtipendula</i> var. <i>Vaughn</i> **	0.50
Wildflowers		
Blanket flower	<i>Gaillardia pulchella</i>	0.30
Common sunflower	<i>Helianthus annuus</i>	1.00
Dotted gayfeather	<i>Liatris punctata</i>	0.50
Hairy golden aster	<i>Heterotheca villosa</i>	0.20
Prairie aster	<i>Machaeranthera tanacetifolia</i>	0.20
Prairie coneflower	<i>Ratibida columnifera</i>	0.20
Purple prairie clover	<i>Dalea purpurea</i> var. <i>purpurea</i>	0.30
Scarlet globemallow	<i>Sphaeralcea coccinea</i>	0.30
White prairie clover	<i>Dalea candida</i>	0.20

Woody Shrubs

Four-wing saltbush	<i>Atriplex canescens</i>	0.40
Sand sage	<i>Artemisia filifolia</i>	0.05
Spanish bayonet	<i>Yucca glauca</i>	0.50
Winterfat	<i>Krascheninnikovia lanata</i>	0.20

***PURE LIVE SEED/ACRE TOTAL** **12.10**

**** Local, wild-sourced genotypes preferred. Provide specified registered variety only if wild-sourced seed is unavailable.**

OCD Permitting

Home OCD Review Applications Review Application

Rejected by the OCD Fee [C-141] Release Corrective Action (C-141)

Submission Contact, Application, Fee and Payment Details for Application ID: 265158

[Return to Under OCD Review](#)

First Name: Terry Operator: [\[222759\]](#) BUCKEYE DISPOSAL, L.L.C.
 Last Name: Payton Application Status: Rejected by the OCD
 Email: terry@bergsteinerenterprises.com Fee Amount: **\$150.00**
 Pay Amount: \$150.00 Credit Card [CC]

Type	ID	District	County	Location
Incident ID	[nOY1813152090]	Hobbs	Lea	L-08-18S-35E 1980 FSL 990 FWL 32.7605324,-103.4851837 NAD83

Attachment Type (Description) Tag(s)	Original Uploaded File Name
C-141	Remediation Plan State AF #003 8-25-2023.pdf (6433.8 KB)
	Files: 1 Total Size: 6.3 MB

Event Dates

Created On: 9/13/2023 5:34 PM Created By: tpayton
 Modified On: 9/19/2023 12:52 PM Modified By: bhall

[Department Notes](#)

Questions

Comments

Conditions of Approval

Reasons of Rejection

Analytical results for the samples collected will not be accepted for the following reasons: Total petroleum hydrocarbons were not analyzed using an acceptable method. Acceptable methods for each analyte are listed in 19.15.29 NMAC on Table I. Other methods may be used as long as they are approved prior to analysis. All laboratory reports indicate that the samples were not received at the proper temperature and were not received by the laboratories on ice.

Added on 9/19/2023 by bhall

[Remove](#)

All samples will need to be analyzed for all the constituents listed on Table I.

Added on 9/19/2023 by bhall

[Remove](#)

Per 19.15.29.12 C.(4) NMAC If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to ground water in Table I of 19.15.29.12 NMAC: (c) within (ii) 1000 feet of any fresh water well or spring. The release is within 1000 feet of a fresh water well and regardless of depth to groundwater, the release must be delineated, both horizontally and vertically, and remediated to the most stringent closure standards in Table I.

Added on 9/19/2023 by bhall

[Remove](#)

Added on 9/19/2023 by bhall

[Remove](#)

Two releases are referred to in the report. Reports can be used for multiple incident numbers but the report will need to be submitted through the OCD Permitting website under each individual incident number.

Added on 9/19/2023 by bhall

[Remove](#)

Department Use Only

Contact Phone:

Contact Email:

Internal Comment:

Reviewer:

[Take Reviewership](#)

Fee Information

Created On: 9/13/2023 5:34 PM

Created By: tpayton

Type: SB553 A.(2)

PO Number: B5EFL-230913-C-1410

Amount: \$150.00

Modified On: 9/13/2023 5:34 PM

Modified By: tpayton

Payment Information

Created On: 9/13/2023 5:49 PM

Created By: tpayton

Status: Paid

Type: Credit Card

Amount: \$150.00

Modified On: 9/19/2023 12:52 PM

Modified By: bhall

From: [Hall, Brittany, EMNRD](#)
To: "Ayarbe, John"
Cc: "saskia@thestandardenergy.com"; "Jack Yates"
Subject: RE: [EXTERNAL] FW: The Oil Conservation Division (OCD) has rejected the application, Application ID: 265158
Date: Tuesday, December 5, 2023 7:41:00 AM

Good morning John,

The extension request for NOY1813152090 is approved. The new due date is February 2, 2024.

Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMNRD Website prior to submitting any C-141s. The guidance documents can be found at

<https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/> or

<https://www.emnrd.nm.gov/ocd/ocd-forms/>.

Please let me know if you have any questions regarding the Digital C-141.

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/>

From: Ayarbe, John

Sent: Monday, December 4, 2023 8:17 PM

To: Hall, Brittany, EMNRD

Cc: saskia@thestandardenergy.com; 'Jack Yates'

Subject: [EXTERNAL] FW: The Oil Conservation Division (OCD) has rejected the application, Application ID: 265158

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

Hi Brittany,

I'm submitting this email to you on behalf of Buckeye Disposal LLC (Buckeye) to request an extension for the submittal of a revised remediation plan for the State AF #003 site near Hobbs, New Mexico (incident #NOY1813152090). Last week, Buckeye collected soil samples to better delineate soil impacts and meet the analytical criteria specified in your email below. The samples were submitted to Cardinal Laboratories in Hobbs.

We are seeking a 45 day extension (due date of 2/2/204).

Thanks!

John P. Ayarbe

Senior Hydrogeologist

Daniel B. Stephens & Associates, Inc.

a Geo-Logic Company

Direct: (505) 353-9137

Mobile: (505) 280-4339

The contents of this e-mail message, including any attachments, are for the sole use of the intended recipient named above. This email may contain confidential and/or legally privileged information. If you are not the intended recipient of this

message, be advised that any dissemination, distribution, or use of the contents of this message is strictly prohibited. If you receive this message in error, please notify the sender by return e-mail and permanently delete all copies of the original e-mail and any attached documentation. Thank you.

From: Saskia Bergstein <saskia@thestandardenergy.com>

Sent: Wednesday, September 20, 2023 7:45 AM

To: Ayarbe, John <jayarbe@geo-logic.com>

Subject: FW: The Oil Conservation Division (OCD) has rejected the application, Application ID: 265158

From: Terry Payton <terry@thestandardenergy.com>

Sent: Tuesday, September 19, 2023 1:57 PM

To: Saskia Allen <saskia@thestandardenergy.com>; Jack Yates <Jack@thestandardenergy.com>

Subject: FW: The Oil Conservation Division (OCD) has rejected the application, Application ID: 265158

Does this need to be sent to Daniel B. Stephens?

Terry Payton

Financial Officer

Bergstein Enterprises, Ltd.

PO Box 191

Lubbock, TX 79408

Office: 806-741-1080

Fax: 806-741-1301

“Standard Energy Services is a Platinum Safety Award winning company.”

This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom it is addressed. Please notify the system manager if you have received this email in error. You should not disseminate, distribute, or copy this email if you are not the named addressee.

From: OCDOnline@state.nm.us [<mailto:OCDOnline@state.nm.us>]

Sent: Tuesday, September 19, 2023 1:53 PM

To: terry@bergsteinenterprises.com

Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 265158

To whom it may concern (c/o Terry Payton for BUCKEYE DISPOSAL, L.L.C.),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nOY1813152090, for the following reasons:

- **Analytical results for the samples collected will not be accepted for the following reasons: Total petroleum hydrocarbons were not analyzed using an acceptable method. Acceptable methods for each analyte are listed in 19.15.29 NMAC on Table I. Other methods may be used as long as they are approved prior to analysis. All laboratory reports indicate that the samples were not received at the proper temperature and were not received by the laboratories on ice.**
- **All samples will need to be analyzed for all the constituents listed on Table I.**
- **Per 19.15.29.12 C.(4) NMAC If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to ground**

water in Table I of 19.15.29.12 NMAC: (c) within (ii) 1000 feet of any fresh water well or spring. The release is within 1000 feet of a fresh water well and regardless of depth to groundwater, the release must be delineated, both horizontally and vertically, and remediated to the most stringent closure standards in Table I.

- **There is a playa lake located southeast of SB-08. Horizontal and vertical delineation of the site will need to include sample points that will assess if the playa lake has been impacted by the release.**
- **1RP-5056 closed. Refer to incident #NOY1813152090 in all future communication.**
- **Submit a complete report though the OCD Permitting website by 12/19/2023.**
- **Two releases are referred to in the report. Reports can be used for multiple incident numbers but the report will need to be submitted through the OCD Permitting website under each individual incident number.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 265158.

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

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Proposed Remediation Plan

State AF #003 SWD Site

Prepared for
Buckeye Disposal, Inc.

Prepared by



6020 Academy NE, Suite 100
Albuquerque, New Mexico 87109
www.dbstephens.com
DB19.1241

March 3, 2025

Table of Contents

1.	Introduction	1
2.	Site Soils and Water Resources	2
3.	Releases and Initial Soil Characterization	3
4.	Additional Characterization Activities	4
4.1	December 2023 Soil Sampling	4
4.2	Site Assessment Plan Implementation	6
4.2.1	October 2024 Electromagnetic (EM) Survey	6
4.2.2	January 2025 Soil Sampling	8
5.	Proposed Remediation and Reclamation Plan	10
5.1	Approach	10
5.1.1	Soil Removal.....	11
5.1.2	Field Screening and Confirmation Soil Sampling	12
5.1.3	Soil Replacement, Grading, and Revegetation.....	12
5.2	Schedule.....	14
5.3	Monitoring	14
	References.....	14

List of Figures

- 1 Shallow Water Sources within ½ mile of Site
- 2 Initial Soil Sampling Results, February 2019
- 3a Soil Chloride Results, Pad of Former Salt Water Disposal Well, December 2023
- 3b Soil Chloride Results, Former Tank Battery Location, December 2023
- 4a Soil TPH Results, Pad of Former Salt Water Disposal Well, December 2023
- 4b Soil TPH Results, Former Tank Battery Location, December 2023
- 5a Geophysical Survey Results, EM31 Vertical Dipole
- 5b Geophysical Survey Results, EM38 Vertical Dipole (0.5-meter Coil)
- 5c Geophysical Survey Results, EM38 Vertical Dipole (1-meter Coil)
- 6 New Mexico State Land Office Leases and Various Operator Pipelines
- 7 Estimated Extents of Proposed Excavation Areas
- 8 Linear Regression of Field $EC_{1.5}$ vs. Soil Chloride Concentration

List of Tables

- 1 Soil Sample Analytical Results, December 2023
- 2 Soil Sample Analytical Results, January 2025

List of Appendices

- A Record of State AF #003 SWD Plugging and Abandonment
- B L02350 Well Log
- C Proximity to Surface Water Features, New Mexico OCD Oil and Gas Map
- D Release Notification Forms (C-141)
- E Analytical Laboratory Reports
- F DBS&A Historical Aerial Photograph Review

1. Introduction

On behalf of Buckeye Disposal, Inc. (Buckeye), Daniel B. Stephens & Associates, Inc. (DBS&A) has prepared this proposed remediation plan (SAP) for the State AF #003 SWD site (the site) located on State of New Mexico Business Lease BL-2050 in Section 8, Township 18 South, Range 35 East, NMPM. Until recently, Buckeye operated a salt water disposal well at the site. Since ceasing disposal well operations, Buckeye has plugged and abandoned the disposal well and has removed the tank battery. The salt water disposal well was plugged and abandoned in April 2023 (Appendix A). Buckeye has also removed the tank battery, including the 40-mil high-density polyethylene (HDPE) flexible membrane liner of the secondary containment, from the site.

On May 17, 2024, DBS&A submitted an Updated Site Assessment Plan (updated SAP) for the site to the New Mexico State Land Office (NMSLO). Brittany Hall of the Oil Conservation Division (OCD) was carbon copied on the submission. Submission of the updated SAP also included DBS&A responses to NMSLO comments on a previous version of the site assessment plan. The updated SAP described investigation activities to delineate the lateral and vertical extents of brine impacts to soil at the site, including several peripheral areas (DBS&A, 2024). Investigation activities included a non-invasive electromagnetic survey and soil sampling. Atkins Engineering Associates, Inc. (Atkins), a subcontractor to DBS&A, completed the electromagnetic survey in October 2024. DBS&A, with support from Buckeye, collected soil samples in January 2025. The electromagnetic survey was completed in accordance with the updated SAP (DBS&A, 2024). The soil samples were collected from two exploratory excavations advanced in the areas of highest soil salinity as indicated by results of the electromagnetic survey: (1) near the former location of the salt water disposal well, and (2) former location of the lined tank battery. Results of the October 2024 electromagnetic survey and January 2025 soil sampling provide sufficient data to initiate remediation at the site, with the understanding that confirmation soil samples will need to be collected and analyzed during remediation to define excavation extents.

Basic information regarding the site is as follows:

- Operator: Buckeye Disposal, Inc. (Buckeye)
- Consultant information: John Ayarbe (DBS&A), (505) 822-9400, jayarbe@geo-logic.com
- Site name: State AF #003 SWD
- API number: 30-025-20980

- State Land Office lease numbers: SW-324 and BL-2050
- OCD incident numbers: NOY1813152090 and NKL1625134663
- Public Land Survey System (PLSS) location: Section 8, Township 18 South, Range 35 East, NMPM
- County: Lea County
- Latitude and longitude: 32°45'37.23"N, 103°29'7.03"W

Buckeye's operational footprint at the site generally consisted of the State AF #003 SWD well pad, former tank battery pad, and the access road connecting them. Buckeye also maintained a pipeline that ran north from the tank battery to the SWD well. There are several other pipelines and facilities (both active and historical) in the vicinity of Buckeye's operational footprint.

This remediation plan is intended to satisfy the requirements of NMSLO and OCD, as stipulated in the NMSLO reclamation rules, SW-324, and Section 13 of 19.15.29 NMAC. It presents background information (Sections 2 and 3), describes characterization activities used to define the lateral and vertical extents of impacts to soil (Section 4), and provides a proposed remediation plan (Section 5). Some of the information presented herein was previously reported in the updated SAP (DBS&A, 2024), including the background descriptions in Sections 2 and 3 and characterization activities summarized in Section 4.1.

2. Site Soils and Water Resources

The Natural Resources Conservation Service (NRCS) map unit for the site is Kimbrough-Lea complex, which NRCS describes as a calcareous, loamy eolian deposit of Pleistocene age overlying indurated caliche of Pliocene age NRCS (2024). Crushed caliche has been placed on the areas of the former locations of the well pad and tank battery, as well as the access road that connects the two locations, giving each area a white appearance. Surface soils of the surrounding undisturbed, vegetated areas consist of eolian sand, consistent with the NRCS description for the region.

Information available online from the New Mexico Office of the State Engineer (OSE) indicates that the depth to shallow groundwater at the well closest to the site (well L02350) is greater than 100 feet below ground surface (bgs) (Figure 1). Well L02350 is north-northeast of the former location of the tank battery (Figure 1). The well log indicates that the boring for the well was drilled to a total depth of 216 feet bgs in March 1960, and that the boring penetrated a

water-bearing zone at 110 feet bgs (Appendix B). The well is currently owned by Intrepid Potash, New Mexico, LLC (Intrepid), is referred to as Intrepid Potash North Well N-4, and is permitted for industrial use. On February 20, 2020, DBS&A contacted Intrepid's East Plant regarding the status of the well and the water level at the well. They reported that the current water level in the well is 115 feet bgs. Based on this information, depth to groundwater at the site is greater than 100 feet bgs.

Appendix C is a map showing the proximity of significant surface water features to the site. It was created using the New Mexico OCD Oil and Gas Map (NM OCD, 2024). The nearest surface water feature to the site is an unnamed drainage approximately 1,900 feet southwest of the former location of the salt water disposal well and approximately 1,000 feet southwest of the former location of the tank battery. A depression is located approximately 390 feet southeast of the former location of the tank battery. The depression is shown as a freshwater pond (PUBF) in the U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory online map (USFWS, 2024). The depression is not a perennial pond, but rather an ephemeral surface water feature.

3. Releases and Initial Soil Characterization

Two releases occurred within the former tank battery secondary containment, which was lined with a 40-mil HDPE flexible membrane. They occurred on August 20, 2016 and May 4, 2018. Buckeye submitted release notification forms (Form C-141) to OCD for these releases (Appendix D). In response to the notifications, OCD assigned remediation permit 1RP-4429 on September 7, 2016 and remediation permit 1RP-5056 on May 11, 2018.

On February 14, 2019, soil samples were collected from seven locations around the perimeter of the tank battery secondary containment, as shown in Figure 2. Samples were collected from depths up to 36 inches using a backhoe. The samples were submitted to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico and analyzed for chloride. Sample results are provided in Figure 2. The Cardinal laboratory report is provided in Appendix E.

In June 2020, a third release occurred near the tank battery from a pipeline operated by Vanguard Natural Resources (Vanguard). The pipeline conveyed produced water to the tank battery for disposal at the salt water disposal well. Buckeye estimates that approximately 50 to 100 barrels of produced water was spilled outside of the tank battery secondary containment. The release occurred on the upstream side of a valve connecting Vanguard's pipeline to the tank battery. Buckeye advised Vanguard of the release from its pipeline and requested that

Vanguard take appropriate action regarding the release. Buckeye also verbally notified OCD of the release, but expected that it was Vanguard's responsibility to complete and submit a C-141 Release Notification Form, as Vanguard was the pipeline operator and was responsible for the pipeline; however, Buckeye does not have documentation that Vanguard reported the release to OCD. Because this release occurred outside of the secondary containment, it is likely to have had a more significant impact on soils of the tank battery pad than the two reported releases within the secondary containment.

4. Additional Characterization Activities

Buckeye and DBS&A have completed additional characterization activities at the site since the initial soil sampling was conducted on February 14, 2019. Characterization activities have been expanded to include the pad for the former salt water disposal well and general vicinity of the site. Characterization activities were expanded to support site closure.

4.1 December 2023 Soil Sampling

On December 1, 2023, Buckeye collected additional soil samples from the site. The samples were collected at the pad where the salt water disposal well was located, at the former location of the tank battery, and along the small drainage that runs to the south from the former location of the tank battery. A total of 17 locations were investigated. Samples were collected at depths of 2 and 4 feet. Samples could not be collected at 4 feet at all locations due the presence of well indurated caliche. The samples were collected with a shovel.

The soil samples were submitted to Cardinal, where they were analyzed for the following constituents, in accordance with Table 1 of 19.15.29.12 NMAC:

- Chloride using Standard method (SM) 4500-Cl-B
- Total petroleum hydrocarbons (TPH) using U.S. Environmental Protection Agency (EPA) method 8015B
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA method SW-846 8021B

The Cardinal laboratory report is provided in Appendix E, and the analytical results are summarized in Table 1. Figures 3a through 4b show the distributions of soil chloride and TPH based on the analytical results. BTEX constituents were not detected (at detection limits of

0.05 or 0.15 milligrams per kilogram [mg/kg] for each constituent) in the soil samples, and are therefore not mapped.

Chloride concentrations of the soil samples range from 32 mg/kg (AF10 at 2 feet) to 5,840 mg/kg (AF01 at 2 feet). The highest chloride concentration was measured in one of the soil samples collected at the former tank battery location (Figure 3b). TPH concentrations of the soil samples range from non-detect (at a detection limit of 10.0 mg/kg) at a majority of the sample locations to 2,389.6 mg/kg (AF03 at 2 feet). Like for chloride, the highest TPH concentration was measured in one of the soil samples collected at the former tank battery location (Figure 4b).

Results for 11 of the 23 soil samples exceed the most stringent OCD numerical limit for chloride (600 mg/kg), while results for 4 of the 23 soil samples exceed the most stringent OCD numerical limit for TPH (Table 1). Application of the most stringent OCD numerical limits is based on the proximity of the Intrepid North Well N-4 (OSE number L02350) to the site (Section 2). However, based solely on depth to groundwater, the OCD numerical limits for chloride and TPH are considerably higher, at 20,000 mg/kg and 2,500 mg/kg, respectively. The chloride and TPH concentrations of the soil samples collected at the site in December 2023 are all well below these higher OCD numerical limits.

Soil chloride and TPH concentration distributions correlate with the appearance of site soils. Figures 3a and 4a show the area around the pad of the former salt water disposal well. Soils that are disturbed are white to light tan in color, while undisturbed soils are browner and support vegetation. Sample sites in the disturbed area have chloride concentrations ranging from 640 mg/kg (AF17 at 4 feet) to 3,040 mg/kg (AF16 at 2 feet). TPH concentrations of the disturbed area range from non-detect (AF12 at 2 feet, AF16 at both depths, and AF17 at 2 feet) to 454 mg/kg (AF12 at 4 feet). In undisturbed areas, chloride concentrations range from 96 mg/kg (AF13 at 2 feet) to 496 mg/kg (AF14 at 4 feet), and TPH was not detected.

Figures 3b and 4b show the area around the former tank battery location. Sample sites in the disturbed area have chloride concentrations ranging from 160 mg/kg (AF05 at 2 feet) to 5,840 mg/kg (AF01 at 2 feet) and TPH concentrations ranging from non-detect (AF05, AF06, AF07, and AF08 at 2 feet) to 2,389.6 mg/kg (AF03 at 2 feet). Chloride concentrations in soil in the undisturbed area range from 32 mg/kg (AF10 at 2 feet) to 368 mg/kg (AF02 at 2 feet). Results for TPH in this area are all non-detect.

Soil sample locations AF09 and AF10 were selected near the depression located southeast of the former tank battery location to investigate whether stormwater runoff from the area of the tank battery has impacted soils of the depression. The sample locations were selected where stormwater runoff enters the depression. Chloride concentrations at AF09 and AF10 were 48 and 32 mg/kg, respectively (Figure 3b). TPH was not detected (Figure 4b). These results show that runoff from the site has not affected soils of the depression.

4.2 Site Assessment Plan Implementation

Based on results of the December 2023 soil sampling and at the requests of OCD and NMSLO, Buckeye further characterized impacts to soil in the areas of the former salt water disposal well pad and former tank battery location, as well as the access road that connects them. Proposed characterization activities were described in a Site Assessment Plan, and consisted of a soil salinity surface geophysical survey (Section 4.2.1) and soil sampling (Section 4.2.2) (DBS&A, 2024). The purpose of these characterization activities was to better define the lateral and vertical extents of impacts to soil in support of development of a remediation plan to restore the site to a condition similar to that before Buckeye's lease.

4.2.1 October 2024 Electromagnetic (EM) Survey

On October 8, 2024, Atkins conducted an electromagnetic (EM) geophysical survey and collected drone based aerial photography at the site under the direction of DBS&A. The geophysical survey was completed using two Geonics Limited instruments: (1) an EM31 and (2) an EM38-MK2. Both instruments measure apparent soil electrical conductivity (EC_A), a measure of soil salinity, and soil magnetic susceptibility using electromagnetic induction. The EM31 and EM38-MK2 feature different coil lengths, which allowed for a variety of depths to be investigated. The EM31 has a 12-foot coil that provides an investigation depth of approximately 20 feet when operated in the vertical dipole orientation. The EM38-MK2 has 0.5-meter and 1.0-meter coils. These coils provide investigation depths of approximately 2.5 and 4.9 feet, respectively, when operated in the vertical dipole orientation. The EM geophysical survey was conducted by carrying each instrument across the site at regular intervals to provide coverage of the entire site. The density of measurements and survey extent were determined from real-time readings from the instruments. The readings informed the operator of areas of high soil conductivity, which were given more detailed delineation. A high-precision global positioning system (GPS) unit was paired with the EM instruments to provide location information for the EM readings.

Atkins provided the EM survey data to DBS&A for processing. DBS&A processed the data to create soil conductivity maps for each depth of investigation provided by the two instruments and different coil lengths (i.e., 2.5, 4.9, and 20 feet). Data processing included removing data skewed by magnetic inference caused by metallic objects in the field, such as pipelines and vehicles, which are identifiable by elevated magnetic susceptibility readings. A correction scalar was applied to data from the EM38-MK2 0.5-meter coil to adjust baseline readings to zero. This calibration step is routine for the 0.5-meter coil on this particular instrument. The data were then interpolated by kriging using R statistical computing software with the gstat package.

The interpolated EM survey were matched to the locations of the December 2023 soil sample points to provide a relationship between EC_A (as measured by the EM instruments) to soil chloride concentration (as measured by Cardinal). DBS&A used linear regression to determine the EC_A values from the EM38-MK2 instrument that equate to a soil chloride concentration of 600 mg/kg. This was done for data from both the 0.5-meter and 1.0-meter coils to identify areas expected to exceed soil chloride concentrations of 600 mg/kg at depths of up to 2 and 4 feet, respectively. Chloride data are not available at deeper depths consistent with the EM31 depth of investigation; therefore, DBS&A did not attempt to relate EC_A readings of this instrument to soil chloride concentration. Notably, the EM31 had much lower EC_A readings across the site than the EM38-MK2, indicating that salinity is lower at depth than near land surface (Figure 5a).

Results from the EM38-MK2 with the 0.5-meter and 1.0-meter coils are shown in Figures 5b and 5c, respectively. Areas predicted to have greater than 600-mg/kg soil chloride concentrations to 2-foot and 4-foot depths are shown in the figures. In general, the predicted areas agree with results from the December 2023 soil sampling. The predictions appear to overestimate some areas, as evidenced by the fact that they include some well vegetated soil. The EM geophysical survey shows regions of high EC_A at the former locations of the State AF #003 SWD well and tank battery (Figure 5b and 5c). Other areas with high EC_A are also present, such as (1) the area of a suspected reserve pit north of the State AF #003 SWD well, (2) the area of a possible pipeline release located between the former salt water disposal well and tank battery, (3) the east end of the former tank battery pad, where a pipeline exist, and (4) the depression to the south of the former tank battery pad. The access road does not show elevated EC_A , indicating that it is not impacted.

4.2.2 January 2025 Soil Sampling

On January 28, 2025, DBS&A's contractor CMB Environmental LLC (CMB) collected soil samples from two exploratory excavations advanced at the site. The exploratory excavations were placed near the former salt water disposal well and at the former tank battery location, in areas with the highest EC_A values and where Buckeye operated (Figures 5a through 5c). Other areas with high EC_A were not investigated further because they were likely impacted by other operators. For instance, pipelines are present at the east end of the former tank battery pad and in the bare area between the former salt water disposal well and tank battery. Other operators are responsible for these pipelines and presumably any releases. The interpolated EM geophysical surveys show separation between areas operated by Buckeye and these other areas with high EC_A , including the depression south of the former tank battery location (Figures 5b and 5c). Because the soil sampling was limited to the two indicated areas, the investigation herein differs from that presented in the Site Assessment Plan (DBS&A, 2024).

The exploratory excavations were advanced with a trackhoe and soil samples were collected from the trackhoe bucket. Buckeye provided and operated the trackhoe. Soil samples were collected at 2-foot intervals until refusal was reached, which was 6 feet at the former salt water disposal well pad and 8 feet at the former tank battery location. The purpose of the soil sampling was to define the vertical extents of impacts to soil in the areas where Buckeye operated.

Soil sampled from each 2-foot interval was homogenized in a clean container and then split for field electrical conductance ($EC_{1.5}$) screening and laboratory analyses. Field $EC_{1.5}$ screenings were performed on soil-water mixtures (i.e., paste) consisting of 1 part soil to 5 parts distilled water by volume, and included measurement of specific conductance (EC readings normalized to 25°C). A total of seven soil samples were submitted to Cardinal and analyzed for the following:

- Chloride using SM 4500-Cl-B
- TPH, including gasoline-range organics (GRO) (C8-C10), diesel-range organics (DRO) (>C10-C28), and motor oil-range organics (MRO) (>C28-C36) using EPA method 8015 modified
- BTEX using EPA method SW-846 8021B

The Cardinal laboratory report is provided in Appendix E; results are summarized in Table 2.

The exploratory excavation at the former salt water disposal well pad was placed near the former State AF #003 SWD well (Figures 5a through 5c). The excavation was advanced to a depth of approximately 6 feet, where well-indurated caliche was encountered. A tooth from the trackhoe bucket was broken in an attempt to excavate beyond the caliche. The unconsolidated material above the caliche consisted of odorless, well-sorted, medium-grained red sand. A summary of field EC screening and laboratory results follows:

- Field EC_{1:5} ranged from 1,235 microsiemens per centimeter ($\mu\text{S}/\text{cm}$) (at 4 to 6 feet) to 2,559 $\mu\text{S}/\text{cm}$ (at 0 to 2 feet).
- Chloride concentrations ranged from 1,800 mg/kg (at 4 to 6 feet) to 3,200 mg/kg (at 0 to 2 feet).
- TPH and BTEX constituents were not detected in any of samples at detection limits of 10.0 mg/kg and 0.150 mg/kg, respectively.

The exploratory excavation at the former tank battery was placed where the HDPE liner once existed (Figures 5a and 5c). Several excavations were attempted before the trackhoe was able to penetrate beyond 2 feet. The final excavation was advanced to a depth of approximately 8 feet, where refusal was reached. Excavated material consisted of well-sorted, medium-grained tan to brown sand. Petroleum odor and staining were not observed. A summary of field EC screening and laboratory results follows:

- Field EC_{1:5} ranged 600 $\mu\text{S}/\text{cm}$ (at 4 to 6 feet) to 2,628 $\mu\text{S}/\text{cm}$ (at 0 to 2 feet).
- Chloride concentrations ranged from 688 mg/kg (at 4 to 6 feet) to 4,400 mg/kg (at 0 to 2 feet).
- TPH concentrations ranged from 3,859 mg/kg (at 6 to 8 feet) to 13,968 mg/kg (at 4 to 6 feet).
- BTEX constituents were not detected in any of samples at detection limits of 0.150 mg/kg.

At both exploratory excavations, soil chloride concentrations exceeded 600 mg/kg (the most stringent OCD numerical limit for chloride) at the deepest depths investigated (i.e., 6 feet at the former salt water disposal well pad and 8 feet at the former tank battery location). Soil TPH concentrations at the former tank battery location also exceeds the most stringent OCD numerical limit for TPH (100 mg/kg).

Soil samples were collected from fewer locations than proposed in the Site Assessment Plan (DBS&A, 2024) because information obtained from the October 2024 EM geophysical survey is sufficient to define the lateral extents of impacts to soil to initiate remediation, with the understanding that confirmation soil samples will need to be collected and submitted to a laboratory. Field screening ($EC_{1:5}$) and confirmation soil sampling will ultimately be used to define excavation limits. Soil samples were collected from the two exploratory excavations to assess the vertical extents of impacts to soil. The January 2024 investigation was limited to areas operated by Buckeye because the interpolated EM geophysical survey results show separation between areas operated by Buckeye and the other areas with high EC_A (Figures 5b and 5c). It is reasonable to conclude that the other areas have been impacted by other operators, especially given the presence of several pipelines at the site. Figure 6 shows NMSLO leases in the vicinity of the site and locations of readily identifiable pipelines. These are not Buckeye pipelines; they are operated by other companies.

5. Proposed Remediation and Reclamation Plan

Buckeye will remediate the impacted areas at the former salt water disposal well pad and the former tank battery location. They will excavate impacted soil from a depth of up to 4 feet and replace it with clean fill. The remediated areas will be graded and seeded to restore them pursuant to 19.15.29.13 NMAC (OCD requirements) and SW-324 (NMSLO requirements). Where OCD and NMSLO requirements differ, NMSLO reclamation requirements will apply. For instance, Buckeye plans to achieve a native plant cover and diversity equal to or exceeding the natural levels in undisturbed soils adjacent to the site (NMSLO requirement). The OCD requirement for establishment of vegetation success is a uniform vegetative cover with a lifeform ratio of ± 50 percent of pre-disturbance levels and a total percent plant cover of at least 70 percent of pre-disturbance levels, excluding noxious weeds. The anticipated excavation areas are shown in Figure 7, along with the areas predicted to have greater than 600 mg/kg soil chloride concentrations to 2-foot and 4-foot depths based on the EM geophysical survey.

Buckeye has already removed all infrastructure from the site and plugged and abandoned the disposal well (Appendix A).

5.1 Approach

The purpose of the proposed remediation plan is to restore the two areas to conditions similar to the native landscape. The areas will be graded and then seeded to establish vegetative cover

that equals or exceeds the natural levels in undisturbed areas adjacent to the site, per NMSLO reclamation rules and SW-324 (NMSLO, 2018). The proposed remediation plan is described in the following subsections.

5.1.1 Soil Removal

Buckeye will remove impacted soil using common earthmoving equipment (e.g., a backhoe or trackhoe). Soil from a depth of up to 4 feet with chloride, TPH, BTEX, and/or benzene concentrations greater than the strictest standards provided in Table 1 of 19.15.29.12 NMAC (i.e., 600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg total BTEX, and 10 mg/kg benzene) will be removed. Buckeye will attempt to excavate soil to a depth of 4 feet unless one of the following conditions is met: (1) field screening and confirmation soil sampling data indicate that soil meets the aforementioned standards or (2) consolidated caliche or bedrock is encountered and cannot be penetrated. As described in Section 4, during soil sampling, caliche was often present at depths less than 4 feet. The caliche is well indurated and can be difficult to impossible to penetrate with common earthmoving equipment. Excavated soil will be transported off-site to Lea Land LLC in Hobbs, New Mexico.

A field scientist will be present to oversee and document remediation and reclamation activities, including field screen of soil samples to direct the removal. The field scientist will take field EC_{1:5} and PID measurements of the soil samples to determine the lateral and vertical extents of chloride and TPH impacts to soil to be removed (Section 5.1.2). Excavation will continue until screening criteria are met, except where excavations abut areas of impacted soil not caused by Buckeye operations. These exceptions include (1) the wash south of the former tank battery location and (2) the suspected reserve pit north of the former State AF #003 SWD well. The June 2020 Vanguard pipeline release has likely had a more substantial impact on the wash, and Buckeye did not construct or operate in the area of the suspected reserve pit.

Anticipated excavation extents are shown in Figure 7. The northern excavation area (near the former State AF #003 SWD well) is approximately 0.4 acre. The southern excavation area (at the former tank battery location) is approximately 1.6 acres. Assuming an excavation depth of 4 feet at both locations, the volumes of soil to be removed are approximately 2,700 and 10,100 cubic yards at the northern and southern excavation areas, respectively.

In addition to removing impacted soil, Buckeye will remove emplaced caliche from the access road and pads present on the site. Where possible, this material will be isolated from impacted soils and recycled.

5.1.2 Field Screening and Confirmation Soil Sampling

DBS&A used linear regression to correlate the January 2025 field EC screening (field EC_{1:5}) results to the laboratory chloride analytical results to determine a site-specific field EC_{1:5} value that can be used to assess if chloride concentrations in soil are expected to be above or below 600 mg/kg in the field. As shown in Figure 8, there is a strong correlation between field EC_{1:5} and chloride ($r^2 = 0.91$). A chloride concentration of 600 mg/kg is equivalent to a field EC_{1:5} of 529 $\mu\text{S}/\text{cm}$. To be conservative while directing soil removal activities, the targeted field EC_{1:5} value of 500 $\mu\text{S}/\text{cm}$ will be used to guide soil removal (i.e., soil with field EC_{1:5} values greater than 500 $\mu\text{S}/\text{cm}$ will be removed).

TPH and BTEX screening will be performed using a photoionization detector (PID). Field EC_{1:5} and PID measurements will also be collected as the excavations are advanced.

When both field EC_{1:5} values are at or below 500 $\mu\text{S}/\text{cm}$ and PID measurements indicate no hydrocarbons, the lateral or vertical extents of excavation will be considered sufficient, excavation will stop, and confirmation soil samples will be collected for analysis at Cardinal.

Confirmation samples will be collected at regular intervals to demonstrate that all impacted soil has been removed up to a depth of 4 feet. Vertical confirmation samples will be collected from the bottoms of the excavations at locations not excavated to 4 feet. Lateral confirmation samples will be collected from the perimeters of the excavations. Anticipated confirmation sample locations are shown in Figure 7. DBS&A anticipates that one vertical and four lateral samples will be collected from the northern excavation, and that five vertical and seven lateral samples will be collected from the southern excavation. However, the actual number and locations of confirmation samples may change due to the sizes and geometries of the actual excavations, as informed by field screening data.

Buckeye will attempt to determine the vertical extent of TPH impacts to soil at the former tank battery location during soil removal. The January 2025 soil sampling results showed TPH impacts to soil to 8 feet bgs (final depth investigated). The sampling results exceeded the most stringent OCD numerical limit for TPH (100 mg/kg). The TPH impacts appear to be limited to the area of the lined secondary containment.

5.1.3 Soil Replacement, Grading, and Revegetation

Buckeye will obtain clean soil to backfill the excavations from SB Land, LLC (SB Land) in Lovington, New Mexico. SB Land sells caliche, clay, and top soil. Buckeye will purchase top soil

for backfilling. The top soil will consist of non-waste-containing, uncontaminated earthen material with chloride concentrations less than 600 mg/kg (as analyzed by EPA method 300.0). The top soil will be suitable for the establishment of vegetation at the site.

The excavations will be backfilled with top soil and then graded and revegetated, as follows:

- *Grade:* The regional topography in the vicinity of the site slopes gently to the southeast at a grade of approximately 0.4 percent. Buckeye will regrade the two areas so that they slope to the southeast at a grade consistent with the regional topography (i.e., less than 1 percent). Sloping will help to restore the natural drainage pattern. Before grading, the crushed caliche that has been placed on the access road and pads of the former salt water disposal well and tank battery locations will be removed.
- *Revegetate:* The site will be revegetated using a seed mix consisting of native plants common to the area (Appendix F). Revegetation will include cross ripping, scarification, seeding, and mulching, as follows:
 - ◇ *Scarification:* Scarification will be used to roughen the soil surface and provide a suitable seedbed. It will be performed with common earthmoving equipment. The degree of scarification required for proper seeding will be determined after grading, but will be completed to a depth of 2 to 4 inches. It will be conducted on contour to avoid the development of flow paths parallel to the slope that could promote erosion.
 - ◇ *Seeding:* Seeds will be broadcast using common rangeland or other appropriate equipment. Seeds will be allowed to fall freely and will be subsequently covered (e.g., raked). Buckeye will conduct seeding just before the monsoon season to help promote growth and revegetation success. Seed will be applied at the rates specified in Appendix F. This seed mix was selected from those of NMSLO and includes annual quick-cover grasses, cool-season and warm-season grasses, wildflowers, and woody shrubs.
 - ◇ *Mulching:* Buckeye will apply weed-free mulch to the revegetated soil surface to minimize wind and stormwater erosion and to help maintain soil moisture.

Buckeye will use care to not introduce rocks and caliche into the top soil will performing earthwork (e.g., grading and scarification).

The expected total area to be restored is 2.0 acres, and is shown on Figure 7. Upon completion of site remediation and reclamation, Buckeye will complete and submit the site characterization and remediation portions of Form C-141 to OCD.

5.2 Schedule

Buckeye will implement the proposed measures just before the first monsoon season following OCD and NMSLO approval of this remediation plan. The monsoon season is typically between mid-July and September, so the majority of the earthwork is expected to be conducted in May and June and the two remediated areas seeded in mid-July. If necessary, Buckeye will use a water truck to spray irrigate the seeded areas. This may be necessary if monsoonal rainfall is less than expected or delayed.

5.3 Monitoring

Buckeye will have site inspections conducted during the first year after seeding to assess revegetation progress. A field biologist will perform the inspections to assess whether vegetative cover is likely to equal or exceed the natural levels in undisturbed areas adjacent to the two remediated and reclaimed areas (i.e., northern and southern areas). The areas will be reseeded and irrigated as needed.

References

Daniel B. Stephens & Associates, Inc. (DBS&A). 2024. *Site assessment plan, State AF #003 SWD Site*. Prepared for Buckeye Disposal, Inc. May 17, 2024.

Natural Resources Conservation Service (NRCS). 2024. Web Soil Survey mapping application. Accessed January 24, 2024. <<https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>>.

New Mexico Oil Conservation Division (NM OCD) of the Energy, Minerals, and Natural Resources Department. 2024. NM OCD Oil and Gas Map. Accessed January 22, 2024. <<https://ocd-hub-nm-emnrd.hub.arcgis.com/>>.

New Mexico State Land Office (NMSLO). 2018. *New Mexico State Land Office salt water disposal easement, No. SW-324 renewal, State AF #3, 30-025-20980*. January 23, 2018.

NMSLO. 2023. Environmental Compliance Office document review checklists associated with the review of the remediation plan for State AF #003 SWD Site and Tank Battery. Prepared by T. Knight, CHMM, Environmental Specialist. August 30, 2023.

U.S. Fish and Wildlife Service (USFWS). 2024. National Wetland Inventory, Surface Waters and Wetlands. Accessed January 22, 2024. <<https://www.fws.gov/program/national-wetlands-inventory/wetlands-mapper>>.

Figures

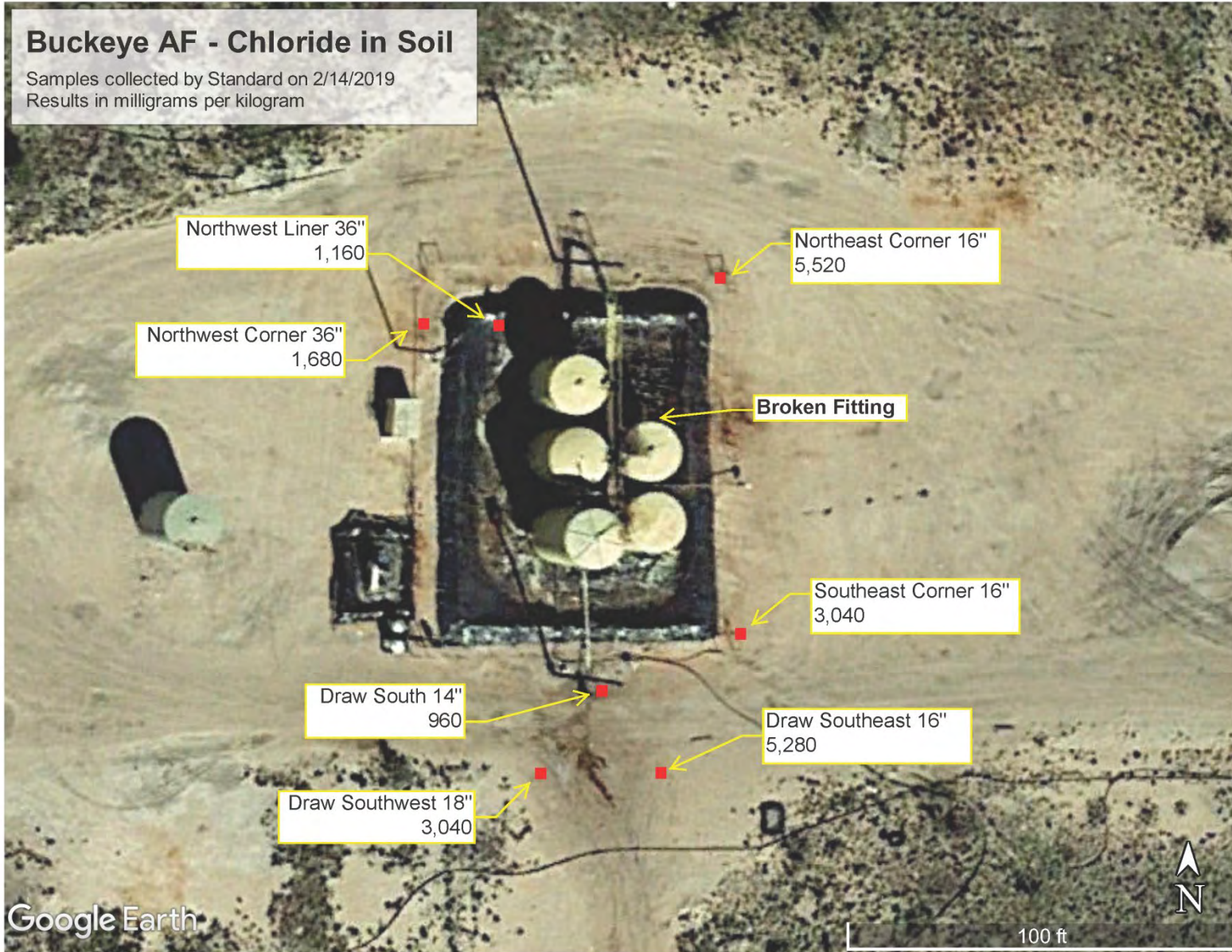
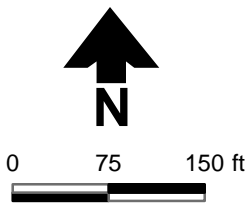
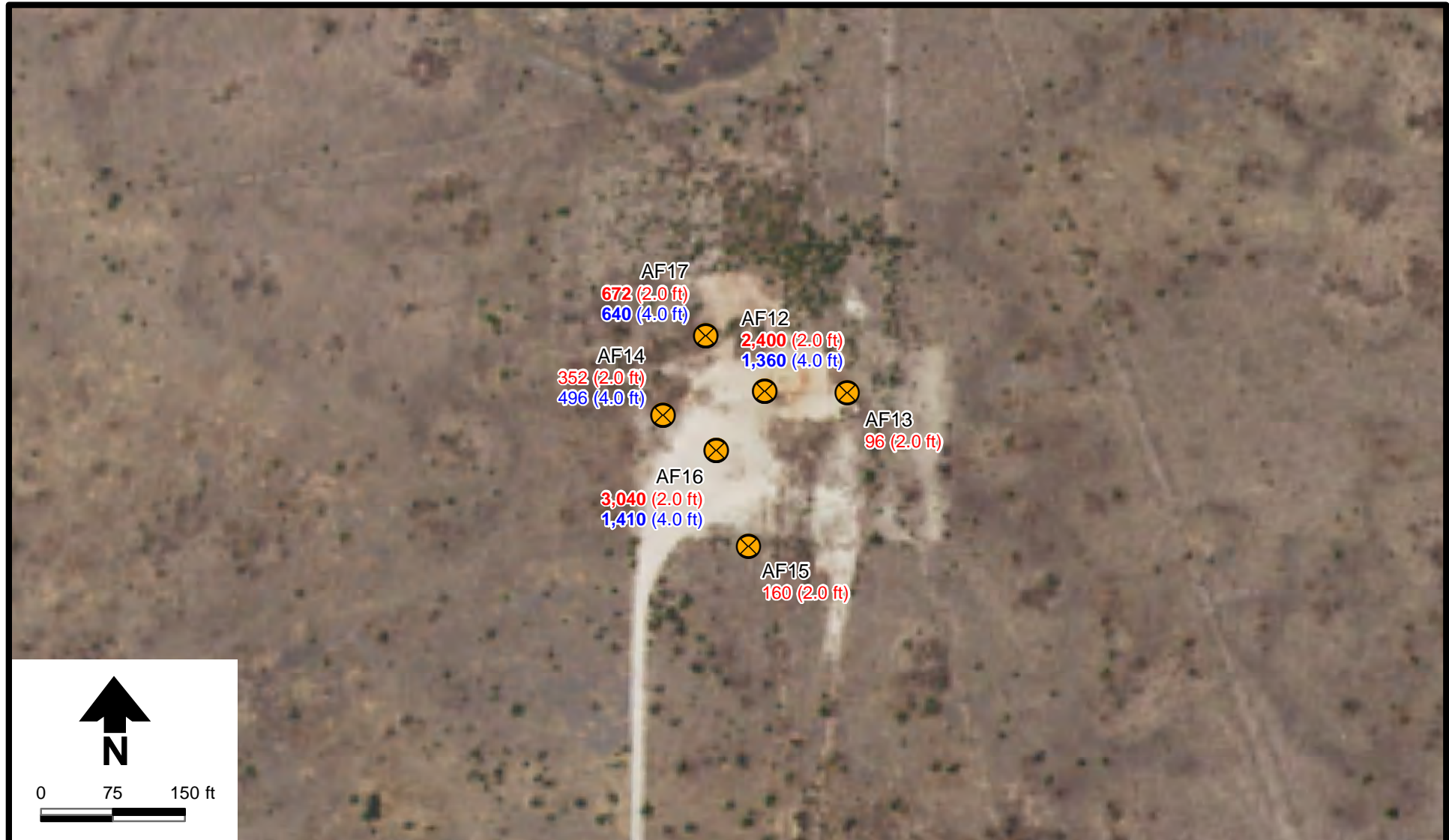


Figure 2



Explanation

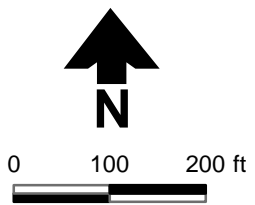
- AF14 Soil Chloride (mg/kg)
- 352 (2.0 ft) **Shallow** (Depth)
- 496 (4.0 ft) **Deep** (Depth)
- December 2023 sample location

Notes: 1. Soil samples were collected on December 1, 2023.
 2. **Bold** indicates concentration greater than or equal to 600 mg/kg.

Source: Aerial imagery (NAIP, 2022).

BUCKEYE STATE AF #003
Soil Chloride Results
Pad of Former Salt Water Disposal Well
December 2023

Figure 3a



Explanation

- AF02 Soil Chloride (mg/kg)
- 368 (2.0 ft) **Shallow** (Depth)
- 80 (4.0 ft) **Deep** (Depth)
- December 2023 sample location

- Notes: 1. Soil samples were collected on December 1, 2023.
 2. **Bold** indicates concentration greater than or equal to 600 mg/kg.

Source: Aerial imagery (NAIP, 2022).

BUCKEYE STATE AF #003
Soil Chloride Results
Former Tank Battery Location
December 2023

Figure 3b



Explanation

- AF17 Soil TPH (mg/kg)
- <10.0 (2.0 ft) **Shallow** (Depth)
- 80.5 (4.0 ft) **Deep** (Depth)
- ⊗ December 2023 sample location

- Notes: 1. Soil samples were collected on December 1, 2023.
 2. TPH = Total Petroleum Hydrocarbons
 3. **Bold** indicates concentration greater than or equal to 100 mg/kg.

Source: Aerial imagery (NAIP, 2022).

BUCKEYE STATE AF #003

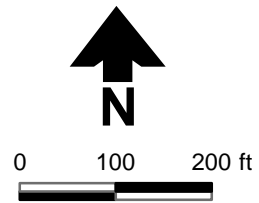
Soil TPH Results

Pad of Former Salt Water Disposal Well

December 2023



4/16/2024 a Geo-Logic Company DB19.1241



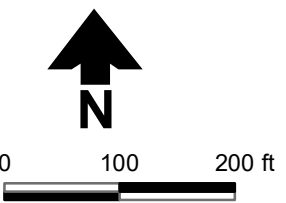
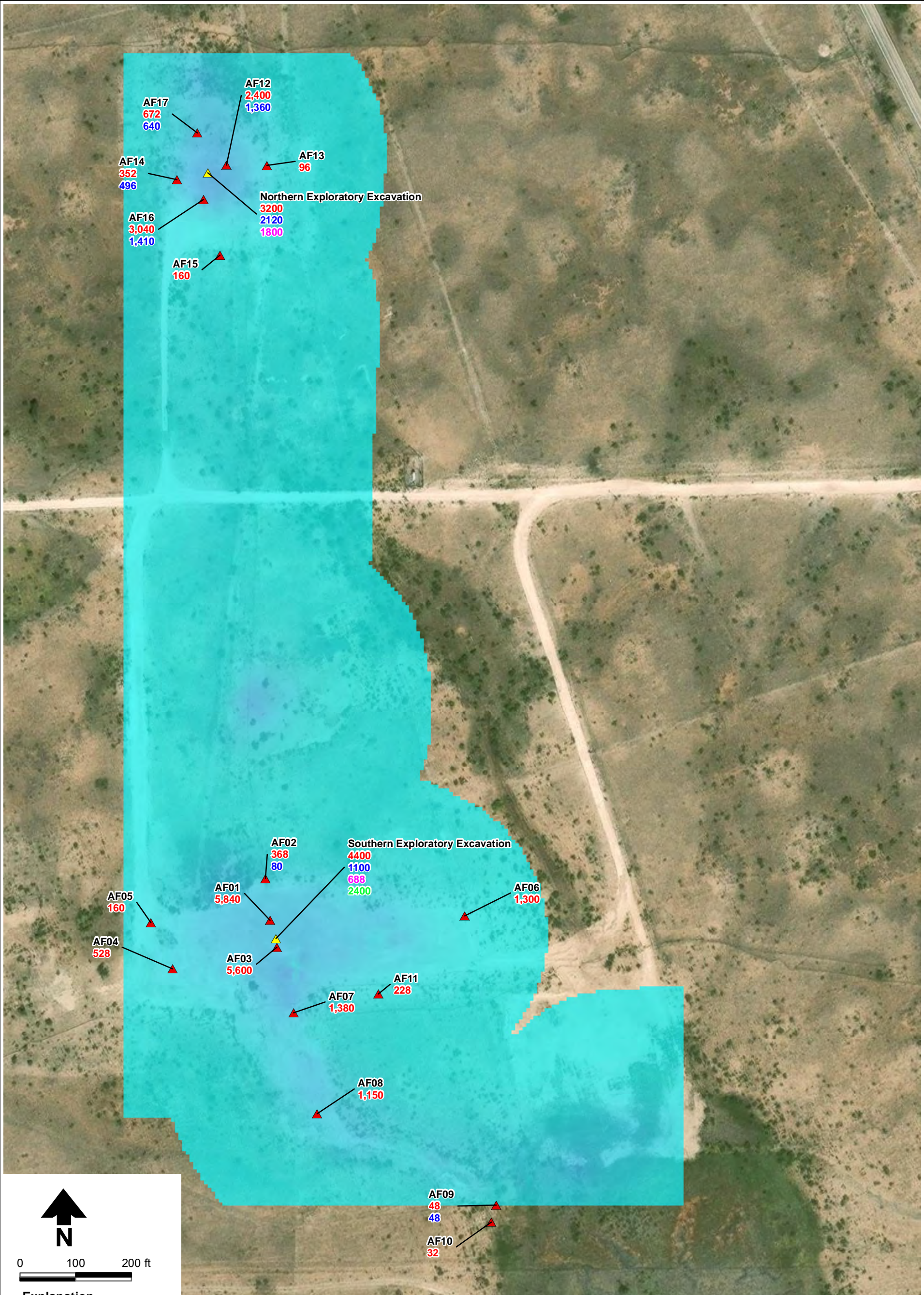
Explanation

- AF02 Soil TPH (mg/kg)
- <10.0 (2.0 ft) **Shallow** (Depth)
- <10.0 (4.0 ft) **Deep** (Depth)
- ⊗ December 2023 sample location

Notes: 1. Soil samples were collected on December 1, 2023.
 2. TPH = Total Petroleum Hydrocarbons
 3. **Bold** indicates concentration greater than or equal to 100 mg/kg.

Source: Aerial imagery (NAIP, 2022).

BUCKEYE STATE AF #003
Soil TPH Results
Former Tank Battery Location
December 2023



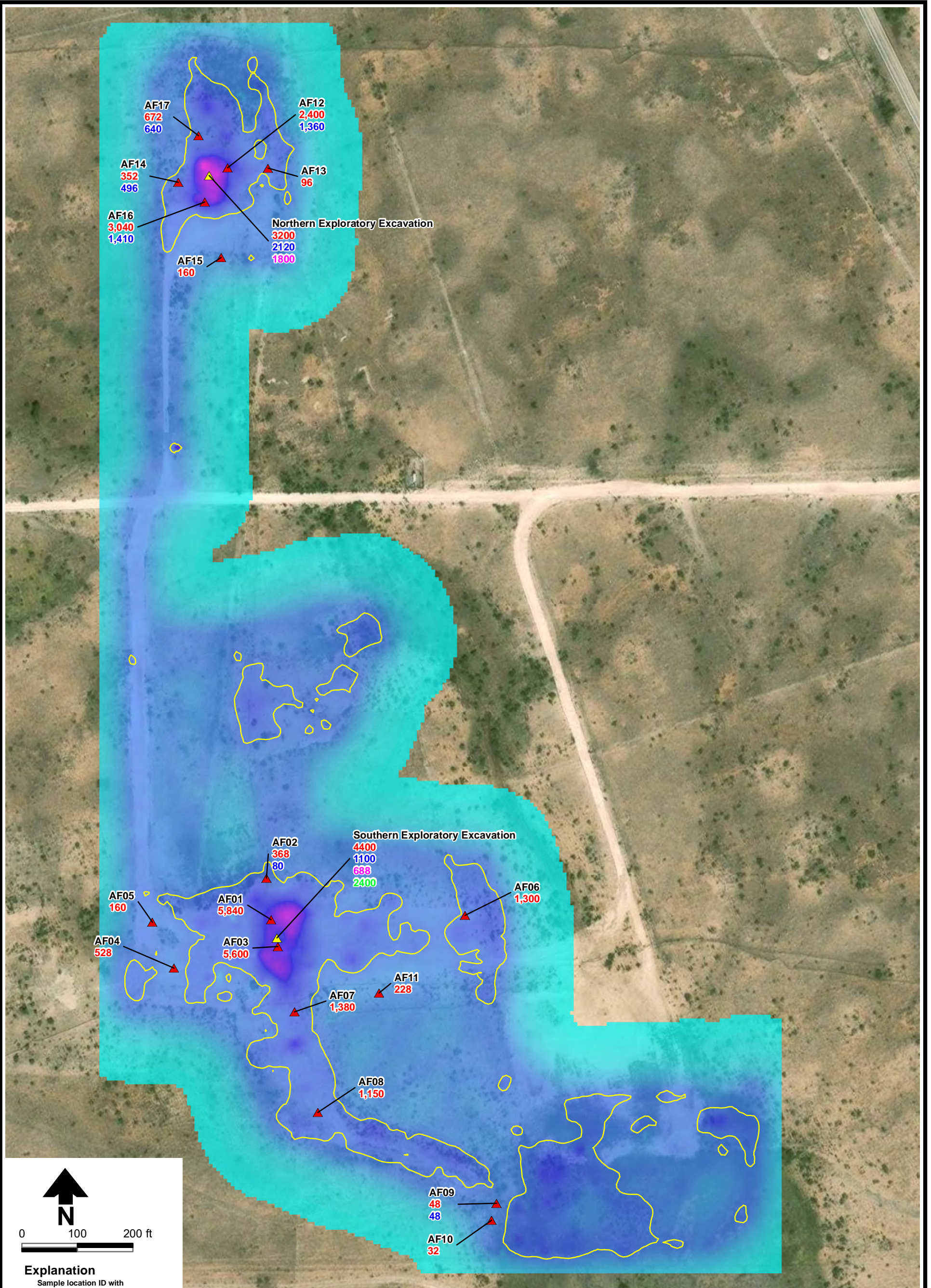
Explanation
 Sample location ID with chloride concentrations (mg/kg)
 2 feet
 4 feet
 6 feet
 8 feet
 ▲ December 2023 soil sample location
 ▲ January 2025 soil sample location

EM31 vertical dipole survey results
 EC_a (µS/cm)
 High : 5050
 Low : 0

Notes: 1. The EM31 vertical dipole has a depth of investigation of 6 meters (approximately 20 feet).
 2. Geophysical survey data processed using simple kriging.

Source: Aerial imagery (ESRI, 2024)

Figure 5a



Source: Aerial imagery (ESRI, 2024)

Explanation

Sample location ID with chloride concentrations (mg/kg)
 2 feet
 4 feet
 6 feet
 8 feet

- ▲ December 2023 soil sample location
- ▲ January 2025 soil sample location
- Area predicted to exceed 600 mg/kg chloride to 2 feet bgs

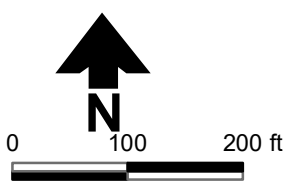
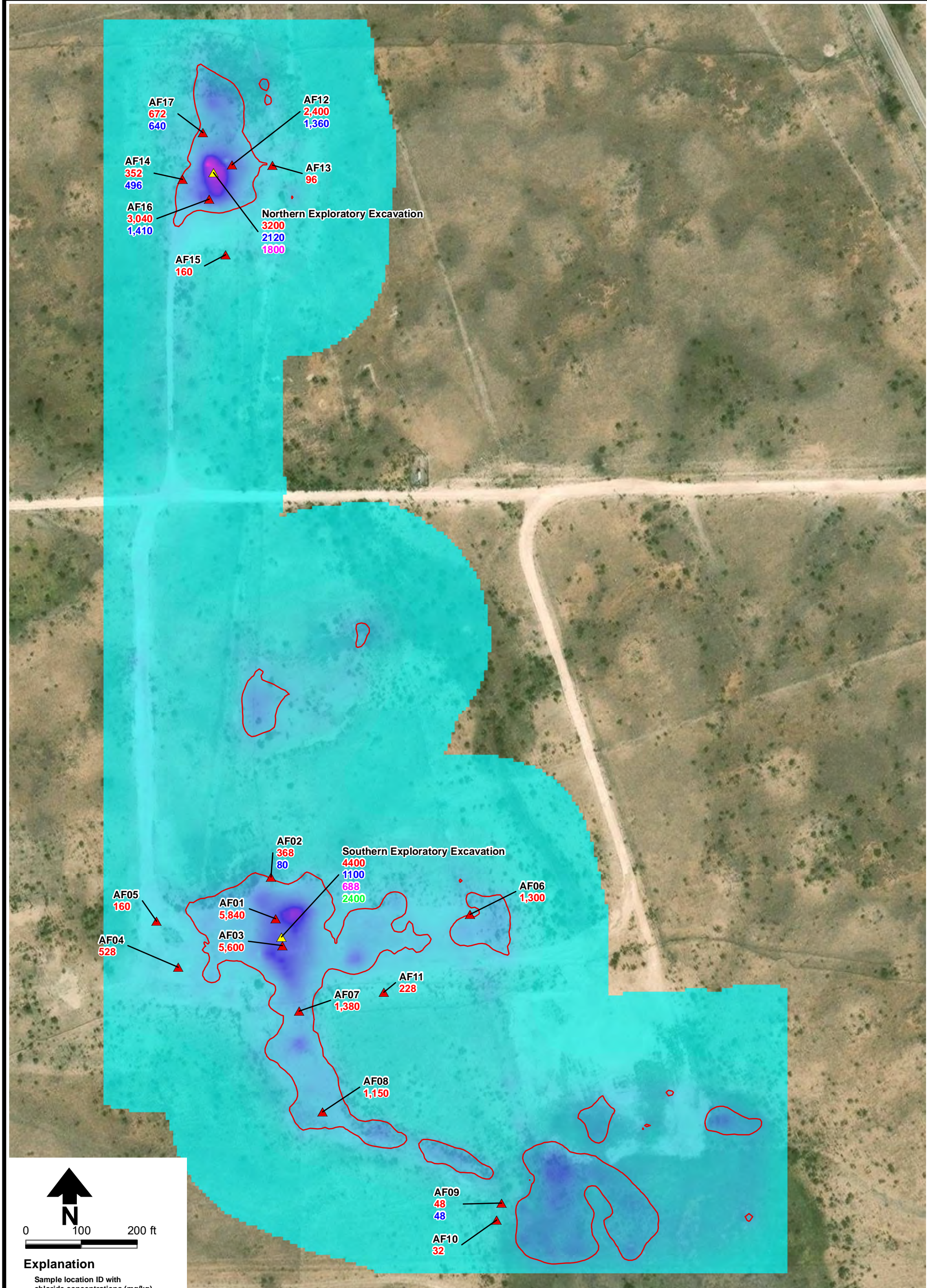
EM38 vertical dipole (0.5-m coil) survey results

EC_A (µS/cm)
 High : 5050
 Low : 0

- Notes:
1. The EM38 0.5-meter vertical dipole has a depth of investigation of 0.75 meters (approximately 2.5 feet).
 2. Estimated area above 600 mg/kg chloride based on linear regression of EC_A and soil chloride sample data from 2 feet bgs.
 3. Geophysical survey data processed using simple kriging.

Figure 5b





Explanation

Sample location ID with chloride concentrations (mg/kg)

- 2 feet
- 4 feet
- 6 feet
- 8 feet

▲ December 2023 soil sample location

▲ January 2025 soil sample location

□ Area predicted to exceed 600 mg/kg chloride to 4 feet bgs

EM38 vertical dipole (1-m coil) survey results

EC_A (μS/cm)

High : 5050

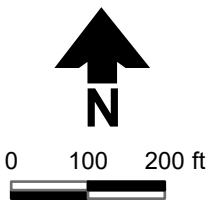
Low : 0

Notes: 1. The EM38 1-meter vertical dipole has a depth of investigation of 1.5 meters (approximately 5 feet).
 2. Area greater than 600 mg/kg chloride based on linear regression of EC_A and soil chloride sample data from 4 feet bgs.
 3. Geophysical survey data processed using simple kriging.

Source: Aerial imagery (ESRI, 2024)

BUCKEYE STATE AF #003
Geophysical Survey Results
EM38 Vertical Dipole (1-meter Coil)

Figure 5c



Explanation

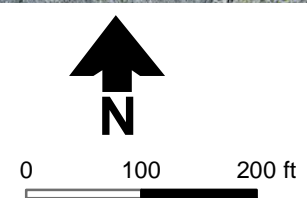
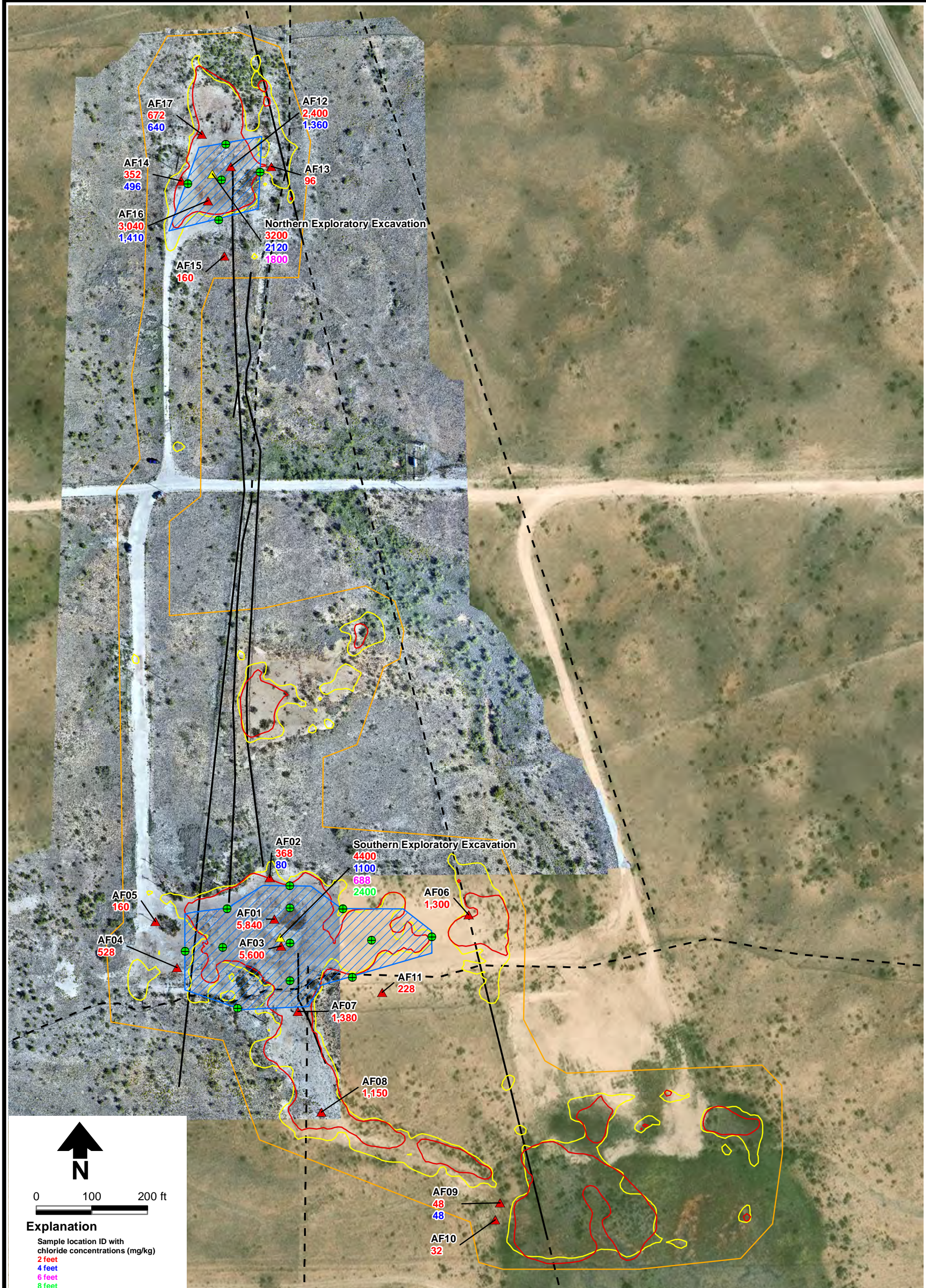
- OCD well location
- OSE point of diversion (POD)
- Known pipeline
- - - Inferred pipeline
- SLO mineral lease
- SLO oil & gas lease
- SLO commercial lease

Notes:

- Well and facility labels are given in black.
- NM State Land Office (SLO) lease areas are labeled by the name of the leaseholder. Label colors correspond to the lease boundary symbology. Lease data obtained from SLO website on February 17, 2025.
- Pipelines are both buried and above ground, determined from site reconnaissance and aerial imagery review. Other pipelines not shown may be present.

Sources: (1) Aerial imagery (ESRI, 2024)
 (2) New Mexico Oil Conservation Division (OCD) well data [updated 2/17/2025]
 (3) New Mexico Office of the State Engineer (OSE) point of diversion (POD) data [updated 2/10/2025]

**BUCKEYE STATE AF #003
 New Mexico State Land Office Leases and
 Various Operator Pipelines**



Explanation

- Sample location ID with chloride concentrations (mg/kg)
- 2 feet
- 4 feet
- 6 feet
- 8 feet
- Anticipated confirmation sample location
- December 2023 soil sample location
- January 2025 soil sample location
- Proposed excavation area
- Geophysical survey area

- Predicted 4 foot excavation area
- Predicted 2 foot excavation area
- Pipeline (dashed where inferred)

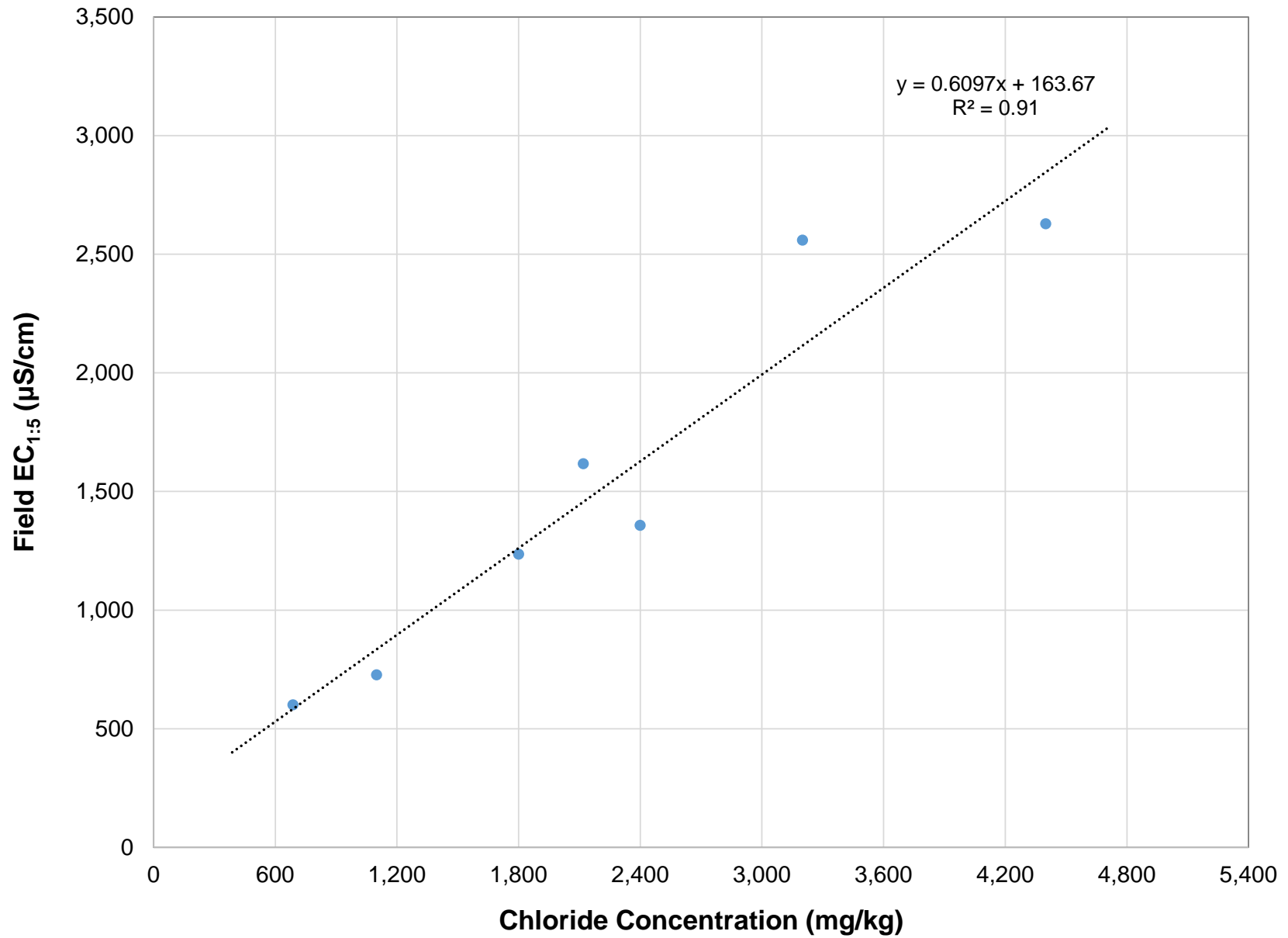
Source: Aerial imagery (ESRI, 2024; Atkins, 2024)

- Notes:
1. Estimated area above 600 mg/kg chloride at 2 feet bgs derived from EM38 0.5-meter vertical dipole data.
 2. Estimated area above 600 mg/kg chloride at 4 feet bgs derived from EM38 1-meter vertical dipole data.
 3. Geophysical data related to December 2023 soil sample results using linear regression.
 4. Pipelines are both buried and above ground, determined from site reconnaissance and aerial imagery review. Other pipelines not shown may be present.

BUCKEYE STATE AF #003

Estimated Extents of Proposed Excavation Areas

Figure 7



BUCKEYE STATE AF #003

**Linear Regression of Field EC_{1:5} vs.
Soil Chloride Concentration**

Figure 8



3/3/2025

DB19.1241

OCD Ex. 23-031

Tables

Table 1. Soil Sample Analytical Results, December 2023

Location	Depth (feet)	Concentration (mg/kg)			
		Chloride	TPH	BTEX	Benzene
AF01	2.0	5,840	1,087	<0.300	<0.050
AF02	2.0	368	<10.0	<0.300	<0.050
AF02	4.0	80	<10.0	<0.300	<0.050
AF03	2.0	5,600	2,389.6	<0.300	<0.050
AF04	2.0	528	157.7	<0.300	<0.050
AF05	2.0	160	<10.0	<0.300	<0.050
AF06	2.0	1,300	<10.0	<0.300	<0.050
AF07	2.0	1,380	<10.0	<0.300	<0.050
AF08	2.0	1,150	<10.0	<0.300	<0.050
AF09	2.0	48	<10.0	<0.300	<0.050
AF09	4.0	48	<10.0	<0.300	<0.050
AF10	2.0	32	<10.0	<0.300	<0.050
AF11	2.0	228	<10.0	<0.300	<0.050
AF12	2.0	2,400	454	<0.300	<0.050
AF12	4.0	1,360	<10.0	<0.300	<0.050
AF13	2.0	96	<10.0	<0.300	<0.050
AF14	2.0	496	<10.0	<0.300	<0.050
AF14	4.0	352	<10.0	<0.300	<0.050
AF15	2.0	160	<10.0	<0.300	<0.050
AF16	2.0	3,040	<10.0	<0.300	<0.050
AF16	4.0	1,410	<10.0	<0.300	<0.050
AF17	2.0	672	<10.0	<0.300	<0.050
AF17	4.0	640	80.5	<0.300	<0.050

Bold indicates that value exceeds 600 milligrams per kilogram (mg/kg) for chloride and 100 mg/kg for total petroleum hydrocarbons (TPH).

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

Table 2. Soil Sample Analytical Results, January 2025

Sample ID	Field EC _{1:5} (μS/cm)	Concentration (mg/kg)				
		Chloride	Total Petroleum Hydrocarbons			Total
			Gasoline-Range Organics (C6-C10)	Diesel-Range Organics (>C10-C28)	Extended Diesel- Range Organics (>C28-C36)	
North Exploratory Excavation 0-2'	2,559	3,200	<10.0	<10.0	<10.0	<30.0
North Exploratory Excavation 2'-4'	1,617	2,120	<10.0	<10.0	<10.0	<30.0
North Exploratory Excavation 4'-6'	1,235	1,800	<10.0	<10.0	<10.0	<30.0
South Exploratory Excavation 0-2'	2,628	4,400	338	3,700	674	4,712
South Exploratory Excavation 2'-4'	727	1,100	299	5,440	979	6,718
South Exploratory Excavation 4'-6'	600	688	748	10,900	2,320	13,968
South Exploratory Excavation 6'-8'	1,357	2,400	103	3,150	606	3,859

Bold indicates that value exceeds 600 milligrams per kilogram (mg/kg) for chloride and 100 mg/kg for total petroleum hydrocarbons (TPH). BTEX constituents were not detected above a laboratory detection limit of up to 0.150 mg/kg; therefore, results are not shown.

Appendix A

Record of State AF #003
SWD Plugging and
Abandonment

State of New Mexico Energy, Minerals and Natural Resources

Form C Revised July 18,

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

- District I - (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283 811 S. First St., Artesia, NM 88210
District III - (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505

WELL API NO. 30-025-20980
5. Indicate Type of Lease STATE [X] FEE []
6. State Oil & Gas Lease No. E 7723
7. Lease Name or Unit Agreement Name Buckeye State AF
8. Well Number 3
9. OGRID Number 222759
10. Pool name or Wildcat Wolfcamp

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)
1. Type of Well: Oil Well [] Gas Well [X] Other SWD
2. Name of Operator Buckeye Disposals LLC
3. Address of Operator PO Box 2724 Lubbock, Texas 79408
4. Well Location Unit Letter L : 1980 feet from the South line and 990 feet from the West line Section 8 Township 185 Range 35E NMPM County Lea
11. Elevation (Show whether DR, RKB, RT, GR, etc.)

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

- PERFORM REMEDIAL WORK [] PLUG AND ABANDON [X]
TEMPORARILY ABANDON [] CHANGE PLANS []
PULL OR ALTER CASING [] MULTIPLE COMPL []
DOWNHOLE COMMINGLE []
CLOSED-LOOP SYSTEM []
OTHER: []

SUBSEQUENT REPORT OF:

- REMEDIAL WORK [] ALTERING CASING []
COMMENCE DRILLING OPNS. [] P AND A [X]
CASING/CEMENT JOB [] PNR
OTHER: []

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

See attachments

Spud Date: []

Rig Release Date: []

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

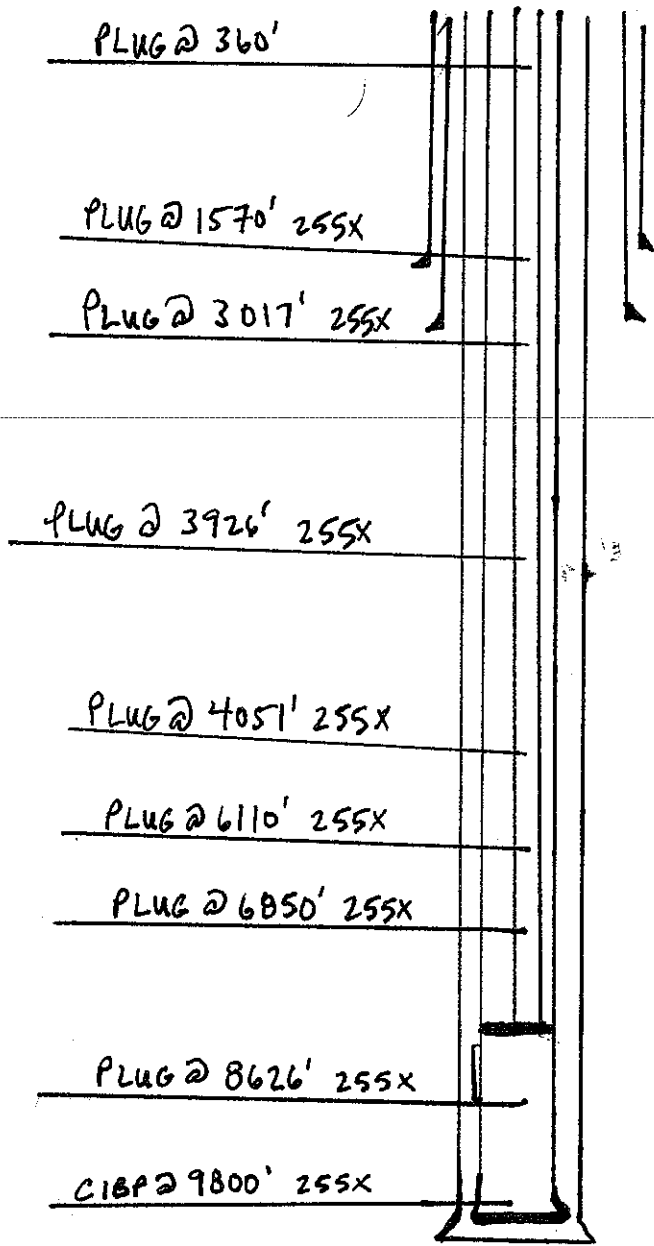
SIGNATURE [Signature] TITLE Manager DATE 5-5-23
Type or print name Jack Yates E-mail address: jack@bergsteinenterprises.com PHONE: 806-241-7405
PROVED BY: Kerry Fortner TITLE Compliance Officer A DATE 5/5/23

- **Buckeye Disposal LLC**
 - **Buckeye State AF #3**
 - **Start Date-04/03/23 Completed -04-20-23**
1. Mon-04/03/23-Arrived on location at 9am, held a 5min tailgate safety meeting, got rig spotted and equipment ready for rig up, rigged up the rig. Waited on BOP to arrive, it arrived at 11.30am, nipped down wellhead and nipped up BOP. Rigged up work floor and tubing equipment, unset packer, crew took lunch break. Begin pulling tubing pulled 299 joints and the PKR secured well shut down.
 2. Tues-04/04/23-Arrived on location, held a 5min tailgate safety meeting, opened well 0 psi, wireline arrived at 8am spotted equipment, rigged up tools and equipment, they tried to run in hole no luck. They noticed it was the wrong size tool. They had to run to town to get the correct tool. They arrived at 10:30am connected tool, ran in hole with gauge ring, then ran the bridge plug set it at (9800ft). Pulled out of hole and rigged down. Secured well shut down for the day due to the wind.
 3. Wens-04/05/23 Arrived on location, held a 5min tailgate safety meeting. Opened well 0psi, got equipment ready, waited on tubing testers. They arrived at 7:30am got spotted and rigged up. It was a windy morning. They tested 4 stands with the rod style testing method and our derrick man was struggling due to wind to stab the probe from the derrick. I decided to rig them down and get the Bars style testing equipment that would be more time efficient and a safer process. Rigged them down waited on new testing truck to arrive from there yard. Testers Arrived at 10:30 am, spotted in and rigged up we then proceeded to test tubing in the hole. Tested 12 stands had to replace 2 collars tested 15 more stand, crew then took a lunch break. After lunch proceeded to test tubing in the hole. Replaced a total of 6 collars, got tubing tested and rigged down tubing testers, secured well shut down for the day. (During the process of testing about 50 stands left to test, the bars were falling at a very slow rate due to well begin full of water we hooked up vac truck.)
 4. Thurs-04/06/23-Arrived on location, held tailgate safety meeting with crew, opened well 0 psi. Waited on cementers to finish rigging up, tied them on to the tubing to test the Bridge Plug, tested it to 500 psi tested good. Circulated well with jell brine. Spotted 25 sacks of cement, laid down 27 joints reversed pump water, to assure the tubing was clear. Waited on a new half pit due to the one on locating having a leak on it. Took a lunch break while it showed up, it arrived we then tied the hoses into the new half pit. Got ready to pump cement plug, pumped 25 sacks of class (8790 ft,) laid down 12 joints pulled 12 stands to the derrick, secured well shut down for the day.

5. Fri-04/07/23-Arrived on location, held a tailgate safety meeting, 0 psi on well opened up BOP, begin to run tubing in the hole to tag plug, tagged plug at 8626" ft. Then proceeded to lay down tubing on the trailer, laid down 62 joints, stood back 202 joints in the derrick. Ran in hole with 4" packer and 202 joints from the derrick, tried to set packer no luck picked up 1 joint worked packer again and got it to set at 6583". Rigged up wireline, perforated at 6800" ft, rigged down wireline, rigged up pump to try and get a pump rate, pressured rite up could not pump into perms. Called NMODC no answer, waited 30 mins no called was returned. Decided to secure well and shut down for the day.
6. Mon-04/10/23-Arrived on location, held tailgate safety meeting, checked pressure on well 0 psi, opened BOP, NMODC decided to spot plug 50 ft below perms, unset packer, picked up 7 joints to spot 25 sack plug at 6850" ft . Cement pump would not start. Waited until it was fixed at 10am. Proceeded to pump cement, laid down 12 joints and stood 15 stands back to the derrick WOC 4 hours. Went and tagged 6380" ft laid down 6 joints had rig problems shut down.
7. Tues-04/11/23-Arrived on location, held a tailgate safety meeting, waited on mechanic to arrive, and fix rig. He arrived got it going, laid down 12 joints spotted 25 sack plug at 6110" no tag required laid down 58 joints to 4200" ft. Secured well shut down for the day.
8. Wens-04/12/23-Arrived on location, held tailgate safety meeting, got equipment ready to pump plug cementer took a while to get his numbers ready and pump, did not start pumping until 8:30am. Pumped a 10 sack plug, pulled tubing to the derrick and waited on cement 4hrs. Opened well ran tubing with packer tagged plug at 4051"ft, laid down tubing to the next plug, set packer at 3640"ft. Rigged up wireline, perforated at 3876"ft rigged down wireline. Rigged up pump tried to establish pump rate could not, unset packer picked up 9 joints spotted 25 sacks of cement at 3926". Laid down 12 joints, stood back 15 stands to the derrick secured well shut down.
9. Thurs-04/13/23-Arrived on location, held tailgate safety meeting, opened well, started to run tuning tagged with 6 ft in, tagged way high, made a call to NMOCDC and he decided to drill down to the plug that was pumped the day prior at 3926". Begin laying down 32 joints on the trailer and stood the rest in the derrick, pulled 6 stands and the tubing was full waited on mud bucket to arrive. It arrived at 11:30am we then continued pulling tubing, got to the plugged off joints begin to lay them down on the ground, laid down 32 cemented joints. Could not get the drilling equipment till the next day, secured well shut down.
10. Fri-04/14/23-Arrived on location, held tailgate safety meeting, opened well, spotted in drill collars and equipment, tallied the collars, begin to pick the up, picked up bit and 6 drill collars, ran tubing tagged at 2570" set 15 points on it fell through, continued to run tubing to 3988 never tagged on cement. Circulated well clean, POOH with tubing and laid down drill collars, secured well shut down.

11. Mon-04/17/23-Arrived on location, held safety meeting, opened well, begin to run tubing in hole, ran 114 joints from the derrick, picked up 7 joints from trailer, rigged up pump, spotted 25 sacks of cement at 3926" ft. laid down 12 joints stood back 15 stands WOC 4 hrs. Opened well begin to run tubing to tag plug, tagged at 3396" ft, good tag, laid down 10 joints, rigged up pump spotted 25 sacks at 3017" ft. Laid down 50 joints stood back the rest of the tubing secured well shut down.
12. Tues-04/18/23-Arrived on location, held safety meeting, opened well o psi, begin to run tubing to tag plug, tagged at 2517" ft. Laid down tubing to 1302" ft set packer. Secured well waited on wireline to arrive. They arrived got rigged up, perforated at 1520" ft, rigged down wireline, connected pump to try and establish rate, no luck decided to drop 50 ft below the perms and spot 25 sacks. Picked up 9 joints, spotted 25 sacks, laid down 17 joints, reversed out to clear tubing, stood 16 stands back in derrick shut down due to wind.
13. Wens-04/19/23-Arrived on location, held safety meeting, opened well 0 psi, ran tubing tagged at 1040" ft, good tag, begin to lay down tubing, laid down 31 joints, pulled two stands and picked up packer with 5 joints, set packer rigged up wireline, perforated at 360" ft, rigged down wireline, connected pump to establish rate, pumped 10 bbls at 480 psi, begin to pump 50 sacks of cement into perms. Shut in pressure was at 200 psi waited on cement to settle for 1hour, opened well, unset packer, laid down 4 joints set packer at 32" ft. Rigged up wireline, they perforated at 150" ft rigged them down. Rigged up pump to see if we could circulate well threw the surface casing, we circulated 20 bbls or water then begin to pump cement, pumped 80 sacks of cement and got good cement to surface stopped pumping. We then unset packer, laid down 1 joint and the packer, rigged down work floor and equipment, nipped down BOP, filled the casing and cellar with cement rigged down cementers and waited for cement to settle. Crew took lunch break, then cleaned and cleared location, got the rig ready for rig down to windy to rig down shut down for the day.
14. Thurs-04/20/23-Arrived on location, held safety meeting, rigged the rig down got it out of the way, waited on the excavator to arrive. Meanwhile crew pressure washed and organized rig. Excavator arrived we dig out the cellar crew assisted with shovels, welder them cut the well head off and welded a cap on there we back filled the well and leveled the grown. Moved rig to the yard shut down for the day. JOP COMPLETED.

BUCKEYE DISPOSAL INC.
STATE AF #3 - P9A SKETCH



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

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

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

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

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

COMMENTS

Action 213950

COMMENTS

Operator: BUCKEYE DISPOSAL, L.L.C. P.O. Box 2724 Lubbock, TX 79408	OGRID: 222759
	Action Number: 213950
	Action Type: [C-103] Sub. Plugging (C-103P)

COMMENTS

Created By	Comment	Comment Date
plmartinez	DATA ENTRY PM	5/5/2023

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

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

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

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

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

CONDITIONS

Action 213950

CONDITIONS

Operator: BUCKEYE DISPOSAL, L.L.C. P.O. Box 2724 Lubbock, TX 79408	OGRID: 222759
	Action Number: 213950
	Action Type: [C-103] Sub. Plugging (C-103P)

CONDITIONS

Created By	Condition	Condition Date
kfortner	Need C103Q and marker photo to release	5/5/2023

Appendix B

L02350 Well Log

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1

# 2072-2-137-7			
DPN: 25-11767			
0			

(A) Owner of well National Potash Co.
 Street and Number Box 731
 City Carlsbad State New Mexico
 Well was drilled under Permit No. _____ and is located in the
1/4 30 1/4 30 1/4 of Section 6 Twp. 18 S Rge. 35 E
 (B) Drilling Contractor Abbott Bros. License No. WD-46
 Street and Number Box 637
 City Hobbs State New Mexico
 Drilling was commenced March 1 19 60
 Drilling was completed March 5 19 60

(Plat of 640 acres)

Elevation at top of casing in feet above sea level _____ Total depth of well 216
 State whether well is shallow or artesian Shallow Depth to water upon completion 105

Section 2

PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	110	135	25	Water Sand
2	180	212	32	Sand & Gravel
3				
4				
5				

Section 3

RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
12 3/4	40	weld	0	216	216	weld	110	210

Section 4

RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5

PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
 Street and Number _____ City _____ State _____
 Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
 Plugging method used _____ Date Plugged _____ 19 _____
 Plugging approved by: _____ Cement Plugs were placed as follows:

No.	Depth of Plug		No. of Sacks Used
	From	To	

Basin Supervisor _____

FOR USE OF STATE ENGINEER ONLY

Date Received 1960 MAR 17 AM 8:37

File No. L-2350

Use Ind Location No. 18.358.323331

OCD Ex 23-044

Appendix C
Proximity to
Surface Water Features
New Mexico OCD
Oil and Gas Map

Appendix D
Release Notification
Forms (C-141)

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

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Buckeye Disposals	Contact: Jim Sayre
Address: PO Box 2724 Lubbock, TX 79408	Telephone No.: 575-390-6006
Facility Name: State AF #3	Facility Type: Disposal

Surface Owner	Mineral Owner	API No.: 30-025-20980
---------------	---------------	-----------------------

LOCATION OF RELEASE

Unit Letter L	Section 8	Township 185	Range 35E	Feet from the 1980	North/South Line South Line	Feet from the 990	East/West Line West Line	County Lea County
------------------	--------------	-----------------	--------------	-----------------------	--------------------------------	----------------------	-----------------------------	----------------------

Latitude: 32.756736 Longitude: 103.484803

NATURE OF RELEASE

Type of Release: Spill	Volume of Release: 15 bbl	Volume Recovered: 14 bbl
Source of Release: 3" PVC Line	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Broken 3" PVC Line - Repair broken 3" PVC Line.

REVIEWED
By Kristen Lynch at 9:57 am, Sep 07, 2016

Describe Area Affected and Cleanup Action Taken.*
Inside lined dyke - Repair liner, evacuate fluid form inside the dyke and mediate dirt inside the lined dyke.

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

Signature: <i>JD Sayre</i>	OIL CONSERVATION DIVISION	
Printed Name: Jim Sayre	CONDITIONALLY Approved by Environmental Specialist: <i>Kristen Lynch</i>	
Title: Manager	Approval Date: 9/07/2016	Expiration Date: 11/07/2016
E-mail Address: jim@thestandardenergy.com	Conditions of Approval: no Later than 10/7/2016 Provide depth to Ground Water Attached <input type="checkbox"/> Delineate and Remediate per NMOCD Guidelines. Discrete Samples Accepted ONLY. NMOCD must IRP 4429	
Date: 8/20/16	Phone: 575-390-6006	

* Attach Additional Sheets If Necessary

approve all site investigation & Corrective Activities prior to implementation. Corrective action is site specific and risk based. NMOCD retains the right to require remediation to more stringent levels than proposed in guidelines if warranted by site specific conditions. Notify NMOCD prior to all sampling, to allow opportunity for witness sampling operations.

nKL1625134663
pKL1625135663

HOBBS OCD

MAY 11 2018

RECEIVED

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

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company <i>Buckeye Disposal</i>	Contact <i>JIM SAYRE</i>
Address	Telephone No. <i>575-393-8352</i>
Facility Name <i>STATE AF</i>	Facility Type <i>DISPOSAL</i>

Surface Owner State	Mineral Owner State	API No. <i>30-025-20980</i>
----------------------------	----------------------------	-----------------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<i>L</i>	<i>8</i>	<i>185</i>	<i>35E</i>	<i>1980</i>	<i>SOUTH</i>	<i>990</i>	<i>WEST</i>	<i>LCA</i>

Latitude *32.76012* Longitude *103.48457*

NATURE OF RELEASE

Type of Release <i>leak</i> produced water	Volume of Release <i>30 bbl</i>	Volume Recovered <i>30 bbl</i>
Source of Release <i>LINE FAILURE</i>	Date and Hour of Occurrence <i>4-24</i>	Date and Hour of Discovery <i>4-26-18</i>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

RECEIVED
By Olivia Yu at 2:23 pm, May 11, 2018

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
SEAL ON PUMP WENT OUT CAUSING PRESSURE BUILD UP & LINE FAILURE INSIDE DYKE & LINER

Describe Area Affected and Cleanup Action Taken.*
INSIDE THE LINER

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

Signature: <i>J. Sayre</i>	OIL CONSERVATION DIVISION	
Printed Name: <i>JIM SAYRE</i>	Approved by Environmental Specialist:	
Title: <i>MANAGER</i>	Approval Date: 5/11/2018	Expiration Date:
E-mail Address: <i>jim@the-standard-energy.com</i>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <i>5-4-18</i> Phone:	<p style="color: red;">see attached directive for historical impacted areas on location. Please inspect liner in question. Provide NMOCD with a concise report of the inspection with affirmation the liner has and will continue to contain liquids.</p>	

* Attach Additional Sheets If Necessary

nOY1813152090

pOY1813152414

1RP-5056

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 5/11/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1RP-5056 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 1 office in Hobbs on or before 6/11/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Appendix E

Analytical Laboratory Reports



February 19, 2019

JIM SAYRE

BUCKEYE DISPOSAL, LLC

P. O. BOX 513

HOBBS, NM 88241

RE: BUCKEYE

Enclosed are the results of analyses for samples received by the laboratory on 02/15/19 8:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 BUCKEYE DISPOSAL, LLC
 JIM SAYRE
 P. O. BOX 513
 HOBBS NM, 88241
 Fax To: UNK-NOWN

 Received: 02/15/2019
 Reported: 02/19/2019
 Project Name: BUCKEYE
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 02/14/2019
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: DRAW SOUTH 14" (H900609-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	02/19/2019	ND	432	108	400	0.00	

Sample ID: NORTH EAST CORNER 16" (H900609-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	02/19/2019	ND	432	108	400	0.00	

Sample ID: SOUTH EAST CORNER 16" (H900609-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	02/19/2019	ND	432	108	400	0.00	

Sample ID: DRAW SOUTHEAST 16" (H900609-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	02/19/2019	ND	432	108	400	0.00	

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BUCKEYE DISPOSAL, LLC
 JIM SAYRE
 P. O. BOX 513
 HOBBS NM, 88241
 Fax To: UNK-NOWN

 Received: 02/15/2019
 Reported: 02/19/2019
 Project Name: BUCKEYE
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 02/14/2019
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: DRAW SOUTH WEST 18" (H900609-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	02/19/2019	ND	432	108	400	0.00	

Sample ID: NORTH WEST CORNER 36" (H900609-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	02/19/2019	ND	432	108	400	0.00	

Sample ID: NORTH WEST LINER 36" (H900609-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1160	16.0	02/19/2019	ND	432	108	400	0.00	

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

December 07, 2023

JACK YATES

STANDARD ENERGY SERVICES

P. O. BOX 2724

LUBBOCK, TX 79408

RE: AF

Enclosed are the results of analyses for samples received by the laboratory on 12/04/23 9:22.

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

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01 2FT	H236486-01	Soil	01-Dec-23 06:00	04-Dec-23 09:22
02 2FT	H236486-02	Soil	01-Dec-23 06:00	04-Dec-23 09:22
02 4FT	H236486-03	Soil	01-Dec-23 06:00	04-Dec-23 09:22
03 2FT	H236486-04	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 04 2FT	H236486-05	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 05 2FT	H236486-06	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 06 2FT	H236486-07	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 07 2FT	H236486-08	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 08 (2FT)	H236486-09	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 09 4FT	H236486-10	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 09 2FT	H236486-11	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 10 2FT	H236486-12	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 11 2FT	H236486-13	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 12 2FT	H236486-14	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 12 4FT	H236486-15	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 13 2FT	H236486-16	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 14 4FT	H236486-17	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 15 2FT	H236486-18	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 16 2FT	H236486-19	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 16 4FT	H236486-20	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 17 2FT	H236486-21	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 14 2FT	H236486-22	Soil	01-Dec-23 06:00	04-Dec-23 09:22
AF 17 @ 4FT	H236486-23	Soil	01-Dec-23 06:00	04-Dec-23 09:22

12/07/23 - All sample jars had headspace. BTEX and TPH results may be biased low.

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

01 2FT
H236486-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	5840		16.0	mg/kg	4	3120512	AC	05-Dec-23	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134 3120424 JH/ 05-Dec-23 8021B

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	
DRO >C10-C28*	801		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	286		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane 82.0 % 48.2-134 3120427 MS 05-Dec-23 8015B

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148 3120427 MS 05-Dec-23 8015B

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

02 2FT
H236486-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	368		16.0	mg/kg	4	3120512	AC	05-Dec-23	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %		71.5-134	3120424	JH/	05-Dec-23	8021B	
--	--	--	-------	--	----------	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			76.3 %		48.2-134	3120427	MS	05-Dec-23	8015B	
----------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			75.5 %		49.1-148	3120427	MS	05-Dec-23	8015B	
--------------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

02 4FT
H236486-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	80.0		16.0	mg/kg	4	3120512	AC	05-Dec-23	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			114 %		71.5-134	3120424	JH/	05-Dec-23	8021B	
--	--	--	-------	--	----------	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			84.9 %		48.2-134	3120427	MS	05-Dec-23	8015B	
----------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			85.8 %		49.1-148	3120427	MS	05-Dec-23	8015B	
--------------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

03 2FT
H236486-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	5600		16.0	mg/kg	4	3120512	AC	05-Dec-23	4500-CI-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	0.269		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			125 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
--	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	51.6		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	
DRO >C10-C28*	1930		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	408		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.2 %	48.2-134		3120427	MS	05-Dec-23	8015B	
----------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			107 %	49.1-148		3120427	MS	05-Dec-23	8015B	
--------------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 04 2FT
H236486-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	528		16.0	mg/kg	4	3120512	AC	05-Dec-23	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			118 %		71.5-134	3120424	JH/	05-Dec-23	8021B	
--	--	--	-------	--	----------	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	
DRO >C10-C28*	87.4		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	70.3		10.0	mg/kg	1	3120427	MS	05-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			76.9 %		48.2-134	3120427	MS	05-Dec-23	8015B	
----------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			76.0 %		49.1-148	3120427	MS	05-Dec-23	8015B	
--------------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 05 2FT
H236486-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	160		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			115 %		71.5-134	3120424	JH/	05-Dec-23	8021B	
--	--	--	-------	--	----------	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			72.9 %		48.2-134	3120428	MS	05-Dec-23	8015B	
----------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			65.7 %		49.1-148	3120428	MS	05-Dec-23	8015B	
--------------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 06 2FT
H236486-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	1300		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-CI-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			115 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
--	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			75.7 %	48.2-134		3120428	MS	05-Dec-23	8015B	
----------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			66.6 %	49.1-148		3120428	MS	05-Dec-23	8015B	
--------------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 07 2FT
H236486-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	1380		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
---------------------------------------	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane			87.1 %	48.2-134		3120428	MS	05-Dec-23	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			80.2 %	49.1-148		3120428	MS	05-Dec-23	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 08 (2FT)
H236486-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	1150		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			115 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
---------------------------------------	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane			69.1 %	48.2-134		3120428	MS	05-Dec-23	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			62.1 %	49.1-148		3120428	MS	05-Dec-23	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 09 4FT
H236486-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-CI-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
---------------------------------------	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane			76.1 %	48.2-134		3120428	MS	05-Dec-23	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			68.9 %	49.1-148		3120428	MS	05-Dec-23	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 09 2FT
H236486-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			115 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
---------------------------------------	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane			88.7 %	48.2-134		3120428	MS	05-Dec-23	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			80.8 %	49.1-148		3120428	MS	05-Dec-23	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 10 2FT
H236486-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-CI-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			116 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
---------------------------------------	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane			87.4 %	48.2-134		3120428	MS	05-Dec-23	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			78.1 %	49.1-148		3120428	MS	05-Dec-23	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 11 2FT
H236486-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	288		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
----------	-----	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
---------------------------------------	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane			82.8 %	48.2-134		3120428	MS	05-Dec-23	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			75.4 %	49.1-148		3120428	MS	05-Dec-23	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 12 2FT
H236486-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	2400		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-CI-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			114 %		71.5-134	3120424	JH/	05-Dec-23	8021B	
--	--	--	-------	--	----------	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	289		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	165		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			82.3 %		48.2-134	3120428	MS	05-Dec-23	8015B	
----------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			80.7 %		49.1-148	3120428	MS	05-Dec-23	8015B	
--------------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 12 4FT
H236486-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	1360		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
---------------------------------------	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane			82.5 %	48.2-134		3120428	MS	05-Dec-23	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			75.3 %	49.1-148		3120428	MS	05-Dec-23	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 13 2FT
H236486-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	96.0		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-CI-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
---------------------------------------	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane			77.1 %	48.2-134		3120428	MS	05-Dec-23	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			70.2 %	49.1-148		3120428	MS	05-Dec-23	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 14 4FT
H236486-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	496		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
----------	-----	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
---------------------------------------	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane			71.1 %	48.2-134		3120428	MS	05-Dec-23	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			63.3 %	49.1-148		3120428	MS	05-Dec-23	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 15 2FT
H236486-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	160		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
----------	-----	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
---------------------------------------	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120428	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane			73.2 %	48.2-134		3120428	MS	05-Dec-23	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			65.6 %	49.1-148		3120428	MS	05-Dec-23	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 16 2FT
H236486-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	3040		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120424	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120424	JH/	05-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			115 %	71.5-134		3120424	JH/	05-Dec-23	8021B	
--	--	--	-------	----------	--	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			73.8 %	48.2-134		3120501	MS	05-Dec-23	8015B	
----------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			64.8 %	49.1-148		3120501	MS	05-Dec-23	8015B	
--------------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 16 4FT
H236486-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	1410		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-CI-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120435	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134 3120435 JH/ 05-Dec-23 8021B

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane 77.6 % 48.2-134 3120501 MS 05-Dec-23 8015B

Surrogate: 1-Chlorooctadecane 68.9 % 49.1-148 3120501 MS 05-Dec-23 8015B

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 17 2FT
H236486-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	672		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120435	JH/	05-Dec-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134 3120435 JH/ 05-Dec-23 8021B

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	

Surrogate: 1-Chlorooctane 60.2 % 48.2-134 3120501 MS 05-Dec-23 8015B

Surrogate: 1-Chlorooctadecane 52.9 % 49.1-148 3120501 MS 05-Dec-23 8015B

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 14 2FT
H236486-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	352		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120435	JH/	05-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			118 %		71.5-134	3120435	JH/	05-Dec-23	8021B	
--	--	--	-------	--	----------	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			63.2 %		48.2-134	3120501	MS	05-Dec-23	8015B	
----------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			55.1 %		49.1-148	3120501	MS	05-Dec-23	8015B	
--------------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

AF 17 @ 4FT
H236486-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	640		16.0	mg/kg	4	3120521	AC	05-Dec-23	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021
HDSP-1

Benzene*	<0.050		0.050	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3120435	JH/	05-Dec-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3120435	JH/	05-Dec-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			119 %		71.5-134	3120435	JH/	05-Dec-23	8021B	
--	--	--	-------	--	----------	---------	-----	-----------	-------	--

Petroleum Hydrocarbons by GC FID
HDSP-1

GRO C6-C10*	<10.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	
DRO >C10-C28*	68.0		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	
EXT DRO >C28-C36	12.5		10.0	mg/kg	1	3120501	MS	05-Dec-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			63.9 %		48.2-134	3120501	MS	05-Dec-23	8015B	
----------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			58.4 %		49.1-148	3120501	MS	05-Dec-23	8015B	
--------------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3120512 - 1:4 DI Water										
Blank (3120512-BLK1)										
Prepared & Analyzed: 05-Dec-23										
Chloride	ND	16.0	mg/kg							
LCS (3120512-BS1)										
Prepared & Analyzed: 05-Dec-23										
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (3120512-BSD1)										
Prepared & Analyzed: 05-Dec-23										
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
Batch 3120521 - 1:4 DI Water										
Blank (3120521-BLK1)										
Prepared & Analyzed: 05-Dec-23										
Chloride	ND	16.0	mg/kg							
LCS (3120521-BS1)										
Prepared & Analyzed: 05-Dec-23										
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (3120521-BSD1)										
Prepared & Analyzed: 05-Dec-23										
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

Volatile Organic Compounds by EPA Method 8021 - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3120424 - Volatiles
Blank (3120424-BLK1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0581</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>116</i>	<i>71.5-134</i>			

LCS (3120424-BS1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

Benzene	1.99	0.050	mg/kg	2.00		99.3	82.8-130			
Toluene	2.10	0.050	mg/kg	2.00		105	86-128			
Ethylbenzene	2.10	0.050	mg/kg	2.00		105	85.9-128			
m,p-Xylene	4.25	0.100	mg/kg	4.00		106	89-129			
o-Xylene	2.09	0.050	mg/kg	2.00		104	86.1-125			
Total Xylenes	6.34	0.150	mg/kg	6.00		106	88.2-128			
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0540</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>108</i>	<i>71.5-134</i>			

LCS Dup (3120424-BSD1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

Benzene	1.91	0.050	mg/kg	2.00		95.3	82.8-130	4.07	15.8	
Toluene	2.03	0.050	mg/kg	2.00		102	86-128	3.24	15.9	
Ethylbenzene	2.03	0.050	mg/kg	2.00		101	85.9-128	3.44	16	
m,p-Xylene	4.12	0.100	mg/kg	4.00		103	89-129	3.16	16.2	
o-Xylene	2.02	0.050	mg/kg	2.00		101	86.1-125	3.35	16.7	
Total Xylenes	6.13	0.150	mg/kg	6.00		102	88.2-128	3.22	16.3	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0540</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>108</i>	<i>71.5-134</i>			

Batch 3120435 - Volatiles
Blank (3120435-BLK1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

Volatile Organic Compounds by EPA Method 8021 - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3120435 - Volatiles
Blank (3120435-BLK1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0600		mg/kg	0.0500		120	71.5-134			

LCS (3120435-BS1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

Benzene	1.77	0.050	mg/kg	2.00		88.7	82.8-130			
Toluene	1.89	0.050	mg/kg	2.00		94.4	86-128			
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.3	85.9-128			
m,p-Xylene	3.90	0.100	mg/kg	4.00		97.4	89-129			
o-Xylene	1.90	0.050	mg/kg	2.00		94.8	86.1-125			
Total Xylenes	5.79	0.150	mg/kg	6.00		96.5	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0577		mg/kg	0.0500		115	71.5-134			

LCS Dup (3120435-BSD1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

Benzene	1.99	0.050	mg/kg	2.00		99.5	82.8-130	11.4	15.8	
Toluene	2.10	0.050	mg/kg	2.00		105	86-128	10.8	15.9	
Ethylbenzene	2.13	0.050	mg/kg	2.00		107	85.9-128	11.1	16	
m,p-Xylene	4.35	0.100	mg/kg	4.00		109	89-129	11.1	16.2	
o-Xylene	2.12	0.050	mg/kg	2.00		106	86.1-125	11.2	16.7	
Total Xylenes	6.47	0.150	mg/kg	6.00		108	88.2-128	11.1	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0574		mg/kg	0.0500		115	71.5-134			

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

Petroleum Hydrocarbons by GC FID - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3120427 - General Prep - Organics
Blank (3120427-BLK1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
<i>Surrogate: 1-Chlorooctane</i>	50.3		mg/kg	50.0		101	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	52.1		mg/kg	50.0		104	49.1-148			

LCS (3120427-BS1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

GRO C6-C10	191	10.0	mg/kg	200		95.4	66.4-123			
DRO >C10-C28	183	10.0	mg/kg	200		91.4	66.5-118			
Total TPH C6-C28	374	10.0	mg/kg	400		93.4	77.6-123			
<i>Surrogate: 1-Chlorooctane</i>	50.3		mg/kg	50.0		101	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	53.6		mg/kg	50.0		107	49.1-148			

LCS Dup (3120427-BS1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

GRO C6-C10	190	10.0	mg/kg	200		95.0	66.4-123	0.433	17.7	
DRO >C10-C28	180	10.0	mg/kg	200		90.1	66.5-118	1.41	21	
Total TPH C6-C28	370	10.0	mg/kg	400		92.5	77.6-123	0.912	18.5	
<i>Surrogate: 1-Chlorooctane</i>	51.4		mg/kg	50.0		103	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	52.7		mg/kg	50.0		105	49.1-148			

Batch 3120428 - General Prep - Organics
Blank (3120428-BLK1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
<i>Surrogate: 1-Chlorooctane</i>	46.4		mg/kg	50.0		92.7	48.2-134			
<i>Surrogate: 1-Chlorooctadecane</i>	44.8		mg/kg	50.0		89.6	49.1-148			

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

Petroleum Hydrocarbons by GC FID - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3120428 - General Prep - Organics
LCS (3120428-BS1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

GRO C6-C10	177	10.0	mg/kg	200		88.4	66.4-123			
DRO >C10-C28	182	10.0	mg/kg	200		91.2	66.5-118			
Total TPH C6-C28	359	10.0	mg/kg	400		89.8	77.6-123			
Surrogate: 1-Chlorooctane	48.3		mg/kg	50.0		96.7	48.2-134			
Surrogate: 1-Chlorooctadecane	46.1		mg/kg	50.0		92.2	49.1-148			

LCS Dup (3120428-BSD1)

Prepared: 04-Dec-23 Analyzed: 05-Dec-23

GRO C6-C10	184	10.0	mg/kg	200		92.0	66.4-123	3.93	17.7	
DRO >C10-C28	182	10.0	mg/kg	200		90.9	66.5-118	0.323	21	
Total TPH C6-C28	366	10.0	mg/kg	400		91.5	77.6-123	1.80	18.5	
Surrogate: 1-Chlorooctane	51.2		mg/kg	50.0		102	48.2-134			
Surrogate: 1-Chlorooctadecane	52.1		mg/kg	50.0		104	49.1-148			

Batch 3120501 - General Prep - Organics
Blank (3120501-BLK1)

Prepared & Analyzed: 05-Dec-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	43.4		mg/kg	50.0		86.7	48.2-134			
Surrogate: 1-Chlorooctadecane	39.6		mg/kg	50.0		79.3	49.1-148			

LCS (3120501-BS1)

Prepared & Analyzed: 05-Dec-23

GRO C6-C10	205	10.0	mg/kg	200		102	66.4-123			
DRO >C10-C28	174	10.0	mg/kg	200		87.2	66.5-118			
Total TPH C6-C28	379	10.0	mg/kg	400		94.8	77.6-123			
Surrogate: 1-Chlorooctane	47.2		mg/kg	50.0		94.4	48.2-134			
Surrogate: 1-Chlorooctadecane	45.8		mg/kg	50.0		91.6	49.1-148			

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 STANDARD ENERGY SERVICES
 P. O. BOX 2724
 LUBBOCK TX, 79408

 Project: AF
 Project Number: 1
 Project Manager: JACK YATES
 Fax To: (575) 234-2873

 Reported:
 07-Dec-23 13:40

Petroleum Hydrocarbons by GC FID - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3120501 - General Prep - Organics
LCS Dup (3120501-BSD1)

Prepared & Analyzed: 05-Dec-23

GRO C6-C10	202	10.0	mg/kg	200	101	66.4-123	1.65	17.7		
DRO >C10-C28	178	10.0	mg/kg	200	89.2	66.5-118	2.29	21		
Total TPH C6-C28	380	10.0	mg/kg	400	95.0	77.6-123	0.181	18.5		
<i>Surrogate: 1-Chlorooctane</i>	<i>45.2</i>		<i>mg/kg</i>	<i>50.0</i>	<i>90.5</i>	<i>48.2-134</i>				
<i>Surrogate: 1-Chlorooctadecane</i>	<i>43.6</i>		<i>mg/kg</i>	<i>50.0</i>	<i>87.2</i>	<i>49.1-148</i>				

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

HDSP-1	Sample container had headspace. Results may be biased low.
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

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 or 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 damage 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

Company Name: <u>Stanford Energy Services</u>		BILL TO		ANALYSIS REQUEST																	
Project Manager: <u>Seck Yats</u>		P.O. #:																			
Address: <u>816 W County Road</u>		Company: <u>Same</u>																			
City: <u>Hobbs</u>	State: <u>NM</u>	Zip: <u>88240</u>	Attn:																		
Phone #: <u>806-241-705</u>	Fax #:		Address:																		
Project #: <u>1</u>	Project Owner: <u>Picker Bergs</u>		City:																		
Project Name: <u>AF</u>			State: Zip:																		
Project Location: <u>SUD</u>			Phone #:																		
Sampler Name: <u>David Ortega</u>			Fax #:																		
FOR LAB USE ONLY																					
#236486 Lab I.D.		Sample I.D.		MATRIX		PRESERV.		SAMPLING		DATE		TIME									



January 30, 2025

JOHN AYARBE

Daniel B. Stephens & Associates, Inc.

6020 Academy Rd NE, Suite 100

Albuquerque, NM 87109

RE: BUCKEYE STATE AF #003

Enclosed are the results of analyses for samples received by the laboratory on 01/28/25 11:36.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Daniel B. Stephens & Associates, Inc.
 JOHN AYARBE
 6020 Academy Rd NE, Suite 100
 Albuquerque NM, 87109
 Fax To: (505) 822-8877

Received:	01/28/2025	Sampling Date:	01/28/2025
Reported:	01/30/2025	Sampling Type:	Soil
Project Name:	BUCKEYE STATE AF #003	Sampling Condition:	** (See Notes)
Project Number:	BUCKEYE STATE AF	Sample Received By:	Tamara Oldaker
Project Location:	STANDARD OIL - BUCKEYE , NM		

Sample ID: NORTH EXPLORATORY EXCAVATION 0-2' (H250488-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/29/2025	ND	1.98	99.0	2.00	2.78		
Toluene*	<0.050	0.050	01/29/2025	ND	2.07	104	2.00	2.39		
Ethylbenzene*	<0.050	0.050	01/29/2025	ND	2.00	99.9	2.00	2.05		
Total Xylenes*	<0.150	0.150	01/29/2025	ND	5.88	98.0	6.00	1.79		
Total BTEX	<0.300	0.300	01/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3200	16.0	01/29/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/28/2025	ND	224	112	200	14.8		
DRO >C10-C28*	<10.0	10.0	01/28/2025	ND	236	118	200	16.2		
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND						

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.4 % 49.1-148

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Daniel B. Stephens & Associates, Inc.
 JOHN AYARBE
 6020 Academy Rd NE, Suite 100
 Albuquerque NM, 87109
 Fax To: (505) 822-8877

Received:	01/28/2025	Sampling Date:	01/28/2025
Reported:	01/30/2025	Sampling Type:	Soil
Project Name:	BUCKEYE STATE AF #003	Sampling Condition:	** (See Notes)
Project Number:	BUCKEYE STATE AF	Sample Received By:	Tamara Oldaker
Project Location:	STANDARD OIL - BUCKEYE , NM		

Sample ID: NORTH EXPLORATORY EXCAVATION 2'-4' (H250488-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2025	ND	1.98	99.0	2.00	2.78	
Toluene*	<0.050	0.050	01/29/2025	ND	2.07	104	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/29/2025	ND	2.00	99.9	2.00	2.05	
Total Xylenes*	<0.150	0.150	01/29/2025	ND	5.88	98.0	6.00	1.79	
Total BTEX	<0.300	0.300	01/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	01/29/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2025	ND	224	112	200	14.8	
DRO >C10-C28*	<10.0	10.0	01/28/2025	ND	236	118	200	16.2	
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Daniel B. Stephens & Associates, Inc.
 JOHN AYARBE
 6020 Academy Rd NE, Suite 100
 Albuquerque NM, 87109
 Fax To: (505) 822-8877

Received:	01/28/2025	Sampling Date:	01/28/2025
Reported:	01/30/2025	Sampling Type:	Soil
Project Name:	BUCKEYE STATE AF #003	Sampling Condition:	** (See Notes)
Project Number:	BUCKEYE STATE AF	Sample Received By:	Tamara Oldaker
Project Location:	STANDARD OIL - BUCKEYE , NM		

Sample ID: NORTH EXPLORATORY EXCAVATION 4'-6' (H250488-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/29/2025	ND	1.98	99.0	2.00	2.78		
Toluene*	<0.050	0.050	01/29/2025	ND	2.07	104	2.00	2.39		
Ethylbenzene*	<0.050	0.050	01/29/2025	ND	2.00	99.9	2.00	2.05		
Total Xylenes*	<0.150	0.150	01/29/2025	ND	5.88	98.0	6.00	1.79		
Total BTEX	<0.300	0.300	01/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1800	16.0	01/29/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/28/2025	ND	224	112	200	14.8		
DRO >C10-C28*	<10.0	10.0	01/28/2025	ND	236	118	200	16.2		
EXT DRO >C28-C36	<10.0	10.0	01/28/2025	ND						

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Daniel B. Stephens & Associates, Inc.
 JOHN AYARBE
 6020 Academy Rd NE, Suite 100
 Albuquerque NM, 87109
 Fax To: (505) 822-8877

Received:	01/28/2025	Sampling Date:	01/28/2025
Reported:	01/30/2025	Sampling Type:	Soil
Project Name:	BUCKEYE STATE AF #003	Sampling Condition:	** (See Notes)
Project Number:	BUCKEYE STATE AF	Sample Received By:	Tamara Oldaker
Project Location:	STANDARD OIL - BUCKEYE , NM		

Sample ID: SOUTH EXPLORATORY EXCAVATION 0-2' (H250488-04)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/29/2025	ND	1.98	99.0	2.00	2.78		
Toluene*	<0.050	0.050	01/29/2025	ND	2.07	104	2.00	2.39	GC-NC	
Ethylbenzene*	<0.050	0.050	01/29/2025	ND	2.00	99.9	2.00	2.05	GC-NC	
Total Xylenes*	<0.150	0.150	01/29/2025	ND	5.88	98.0	6.00	1.79	GC-NC	
Total BTEX	<0.300	0.300	01/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 264 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4400	16.0	01/29/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	338	10.0	01/28/2025	ND	224	112	200	14.8		
DRO >C10-C28*	3700	10.0	01/28/2025	ND	236	118	200	16.2		
EXT DRO >C28-C36	674	10.0	01/28/2025	ND						

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 151 % 49.1-148

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Daniel B. Stephens & Associates, Inc.
 JOHN AYARBE
 6020 Academy Rd NE, Suite 100
 Albuquerque NM, 87109
 Fax To: (505) 822-8877

Received:	01/28/2025	Sampling Date:	01/28/2025
Reported:	01/30/2025	Sampling Type:	Soil
Project Name:	BUCKEYE STATE AF #003	Sampling Condition:	** (See Notes)
Project Number:	BUCKEYE STATE AF	Sample Received By:	Tamara Oldaker
Project Location:	STANDARD OIL - BUCKEYE , NM		

Sample ID: SOUTH EXPLORATORY EXCAVATION 2'-4' (H250488-05)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/29/2025	ND	1.98	99.0	2.00	2.78		
Toluene*	<0.050	0.050	01/29/2025	ND	2.07	104	2.00	2.39	GC-NC	
Ethylbenzene*	<0.050	0.050	01/29/2025	ND	2.00	99.9	2.00	2.05	GC-NC	
Total Xylenes*	<0.150	0.150	01/29/2025	ND	5.88	98.0	6.00	1.79	GC-NC	
Total BTEX	<0.300	0.300	01/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 353 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	01/29/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	299	10.0	01/28/2025	ND	224	112	200	14.8		
DRO >C10-C28*	5440	10.0	01/28/2025	ND	236	118	200	16.2		
EXT DRO >C28-C36	979	10.0	01/28/2025	ND						

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 171 % 49.1-148

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Daniel B. Stephens & Associates, Inc.
 JOHN AYARBE
 6020 Academy Rd NE, Suite 100
 Albuquerque NM, 87109
 Fax To: (505) 822-8877

Received:	01/28/2025	Sampling Date:	01/28/2025
Reported:	01/30/2025	Sampling Type:	Soil
Project Name:	BUCKEYE STATE AF #003	Sampling Condition:	** (See Notes)
Project Number:	BUCKEYE STATE AF	Sample Received By:	Tamara Oldaker
Project Location:	STANDARD OIL - BUCKEYE , NM		

Sample ID: SOUTH EXPLORATORY EXCAVATION 4'-6' (H250488-06)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/29/2025	ND	1.98	99.0	2.00	2.78		
Toluene*	<0.050	0.050	01/29/2025	ND	2.07	104	2.00	2.39	GC-NC	
Ethylbenzene*	<0.050	0.050	01/29/2025	ND	2.00	99.9	2.00	2.05	GC-NC	
Total Xylenes*	<0.150	0.150	01/29/2025	ND	5.88	98.0	6.00	1.79	GC-NC	
Total BTEX	<0.300	0.300	01/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 403 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	01/29/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	748	100	01/29/2025	ND	224	112	200	14.8		
DRO >C10-C28*	10900	100	01/29/2025	ND	236	118	200	16.2		
EXT DRO >C28-C36	2320	100	01/29/2025	ND						

Surrogate: 1-Chlorooctane 171 % 48.2-134

Surrogate: 1-Chlorooctadecane 257 % 49.1-148

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Daniel B. Stephens & Associates, Inc.
 JOHN AYARBE
 6020 Academy Rd NE, Suite 100
 Albuquerque NM, 87109
 Fax To: (505) 822-8877

Received:	01/28/2025	Sampling Date:	01/28/2025
Reported:	01/30/2025	Sampling Type:	Soil
Project Name:	BUCKEYE STATE AF #003	Sampling Condition:	** (See Notes)
Project Number:	BUCKEYE STATE AF	Sample Received By:	Tamara Oldaker
Project Location:	STANDARD OIL - BUCKEYE , NM		

Sample ID: SOUTH EXPLORATORY EXCAVATION 6'-8' (H250488-07)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/29/2025	ND	1.98	99.0	2.00	2.78		
Toluene*	<0.050	0.050	01/29/2025	ND	2.07	104	2.00	2.39		
Ethylbenzene*	<0.050	0.050	01/29/2025	ND	2.00	99.9	2.00	2.05	GC-NC	
Total Xylenes*	<0.150	0.150	01/29/2025	ND	5.88	98.0	6.00	1.79	GC-NC	
Total BTEX	<0.300	0.300	01/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 166 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	01/29/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	103	10.0	01/28/2025	ND	224	112	200	14.8		
DRO >C10-C28*	3150	10.0	01/28/2025	ND	236	118	200	16.2		
EXT DRO >C28-C36	606	10.0	01/28/2025	ND						

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 163 % 49.1-148

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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-04 The RPD for the BS/BSD was outside of historical limits.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
- 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



Celey D. Keene, Lab Director/Quality Manager

Appendix F

DBS&A

Historical Aerial

Photograph Review

Memorandum

To: John Ayarbe

Date: January 31, 2024

From: Jessica Myers

Subject: Buckeye State AF #003, NMSLO Areas of Concern

On August 30, 2023, the New Mexico State Land Office (NMSLO) denied a Remediation Plan submitted for Buckeye State AF #003 dated August 25, 2023, stating that a revised plan must be submitted. This denial included several site maps that outlined “applicable areas needing further investigation, remediation, and reclamation” over recent aerial imagery dated June 2023. Attached to this memorandum are two maps showing these outlined areas over aerial imagery dated 1996, which is before the client leased the property. This memorandum compares the areas of concern between these two dates.

NMSLO identified seven areas of concern in the northern area of the property, around the location of the pad for the former salt water disposal well. The first area is the farthest northwest of the areas, and is located in the center of a disturbed zone that is an offshoot of the main disturbed area around the well pad. In the 1996 aerial photograph, that disturbed zone is present and larger than it is in the 2023 aerial photograph. The second area is the farthest northeast, and encompasses a smaller area of disturbed soil; however, most of the area is vegetated. In the 1996 aerial photograph, the area fully contains disturbed soil. The third area is located in the north-central part of the well pad and appears fully disturbed. The area is also fully disturbed in the 1996 aerial photograph. The fourth area is located around the southeast corner of the well pad area, and covers a mostly disturbed area including a road. In the 1996 aerial photograph, the entire top half of the area is disturbed, while the road is also visible in the bottom half. The fifth area is located east of the access road and south of the well pad, and contains vegetation with no disturbed soil. In the 1996 aerial photograph, the area is fully disturbed. The sixth area is located southeast of the fifth area, and contains a small area of disturbed soil next to a road. In the 1996 aerial photograph, the road is present and the area is fully disturbed. The seventh area is west of the access road and south of another road that trends east-west, which appears partially disturbed. In the 1996 aerial photograph, the area is mostly vegetated.

NMSLO identified six more areas in the southern area of the property, around the former tank battery area. The first area is located along the access road north of the former tank battery site, which contains the road and no other disturbed areas. In the 1996 aerial photograph, the area looks the same as it does in the 2023 aerial imagery. The second area is located east of the first area, which contains a larger disturbed area. In the 1996 aerial photograph, this area is more visibly disturbed than it is in the 2023 aerial imagery. The third area is west of the former tank battery location and is mostly covered in vegetation, with two noticeable disturbed patches. In the 1996 aerial photograph, this area is more disturbed than it is in the 2023 aerial photograph. The fourth area is located where the tank battery once was, and is fully disturbed. In the 1996 aerial photograph, this area was also fully disturbed. The fifth area is located directly east of the fourth area and is fully disturbed. This area was also fully disturbed in the 1996 aerial photograph. The sixth area encompasses the part of the property that slopes downward toward a topographic depression and the slope is mostly disturbed, with some vegetation growing on it. In the 1996 aerial photograph, this area is more disturbed and has considerably less vegetation growing on the slope.




Source: Aerial imagery (Google Earth, 1996).



0 100 200 ft

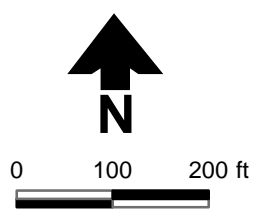
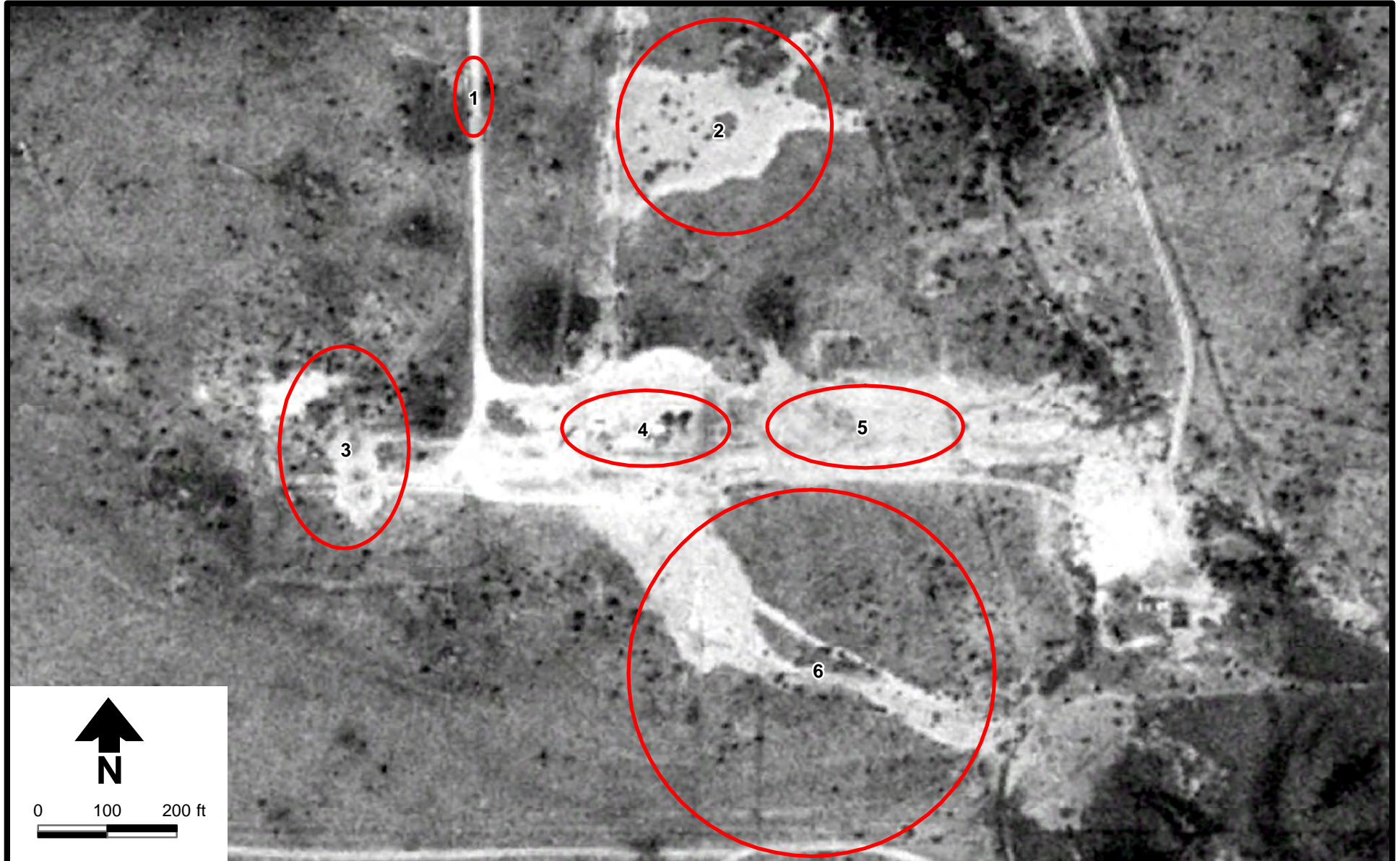
Explanation

 NMSLO area of concern




3/19/2024 a Geo-Logic Company DB19.1241

BUCKEYE STATE AF #003
1996 Historical Imagery
Pad of Former Salt Water Disposal Well



Explanation

 NMSLO area of concern

Source: Aerial imagery (Google Earth, 1996).

BUCKEYE STATE AF #003

**1996 Historical Imagery
Former Tank Battery Location**

Figure A-2

OCD Permitting

Home OCD Review Applications Review Application

Rejected by the OCD Fee [C-141] Release Corrective Action (C-141)

Submission Contact, Application, Fee and Payment Details for Application ID: 438610

[Return to Under OCD Review](#)

First Name: Terry Operator: [\[222759\]](#) BUCKEYE DISPOSAL, L.L.C.
 Last Name: Payton Application Status: Rejected by the OCD
 Email: terry@bergsteinenterprises.com Fee Amount: **\$150.00**
 Pay Amount: \$150.00 Credit Card [CC]

Type	ID	District	County	Location
Incident ID	[nOY1813152090]	Hobbs	Lea	L-08-18S-35E 1980 FSL 990 FWL 32.7605324,-103.4851837 NAD83

Attachment Type (Description) Tag(s)	Original Uploaded File Name
Volume Calculation	Appx D compiled.pdf (1072.9 KB)
Water Sources	Appx C OSW Water Bodies.pdf (607.8 KB)
Scaled Site Map	F06 Facility Overview.pdf (1880.8 KB)
Field Data	2025 January y 28th DBS&A Soil Sampling Buckeye State AF.pdf (916.2 KB)
Soil Contaminant	Compiled figures.pdf (3512.8 KB)
Water Depth	F01 ShallowSource.pdf (464 KB)
Boring Logs	2025 January y 28th DBS&A Soil Sampling Buckeye State AF.pdf (916.2 KB)
Photographs	Binder1 Northern exploratory excavation 01282025.pdf (9400.9 KB)
Photographs	Binder2 Southern exploratory excavation 01282025.pdf (15319.1 KB)
Topo Aerial Maps	Compiled figures.pdf (3512.8 KB)
Lab Data	Appx E compiled.pdf (2951.7 KB)
Proposed Technique	Proposed Remediation Plan Buckeye State AF 003 3-03-2025.pdf (10551.7 KB)
Scaled Site Map	F07 Proposed excavation area.pdf (4953.6 KB)
Estimated Volume	Proposed Remediation Plan Buckeye State AF 003 3-03-2025.pdf (10551.7 KB)
Closure Criteria	Proposed Remediation Plan Buckeye State AF 003 3-03-2025.pdf (10551.7 KB)
Proposed Schedule	Proposed Remediation Plan Buckeye State AF 003 3-03-2025.pdf (10551.7 KB)
Files: 16 Total Size: 85.7 MB	

Questions

Prerequisites

Incident Operator	[222759] BUCKEYE DISPOSAL, L.L.C.
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-20980] STATE AF #003
Incident Facility	Unavailable.

Location of Release Source

Please answer all the questions in this group.

- Site Name STATE AF #003
- Date Release Discovered 04/26/2018
- Surface Owner State

Incident Details

Please answer all the questions in this group.

- Incident Type Produced Water Release
- Did this release result in a fire or is the result of a fire No
- Did this release result in any injuries No
- Has this release reached or does it have a reasonable probability of reaching a watercourse No
- Has this release endangered or does it have a reasonable probability of endangering public health No
- Has this release substantially damaged or will it substantially damage property or the environment No
- Is this release of a volume that is or may with reasonable probability be detrimental to fresh water No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

- Crude Oil Released (bbls) Details Not answered.
- Produced Water Released (bbls) Details Cause: Equipment Failure | Pump | Produced Water | Released: 30 BBL | Recovered: 30 BBL | Lost: 0 BBL.

Δ Is the concentration of chloride in the produced water >10,000 mg/l Yes

- Condensate Released (bbls) Details Not answered.
- Natural Gas Vented (Mcf) Details Not answered.
- Natural Gas Flared (Mcf) Details Not answered.
- Other Released Details Not answered.
- Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) Not answered.

Nature and Volume of Release (continued)

- Is this a gas only submission (i.e. only significant Mcf values reported) No, according to supplied volumes this does not appear to be a "gas only" report.
- Was this a major release as defined by Subsection A of 19.15.29.7 NMAC Yes
- Reasons why this would be considered a submission for a notification of a major release For paragraph A. "Major release" determine using:
 (b) Is the volume of release of a volume, excluding gases, of 25 barrels or more.

Δ	The source of the release has been stopped	True	
Δ	The impacted area has been secured to protect human health and the environment	True	
Δ	Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
Δ	All free liquids and recoverable materials have been removed and managed appropriately	True	

• If all the actions described above have not been undertaken, explain why *Not answered.*

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

Δ	I hereby agree and sign off to the above statement	Name: Terry Payton Title: Financial Officer Email: terry@bergsteinerenterprises.com Date: 03/04/2025	
---	--	---	--

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Δ	What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
Δ	What method was used to determine the depth to ground water	Direct Measurement	
Δ	Did this release impact groundwater or surface water	No	

What is the minimum distance, between the closest lateral extents of the release and the following surface areas:

Δ	A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)	
Δ	Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)	
Δ	An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
Δ	A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)	
Δ	Any other fresh water well or spring	Between 500 and 1000 (ft.)	
Δ	Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
Δ	A wetland	Between ½ and 1 (mi.)	
Δ	A subsurface mine	Greater than 5 (mi.)	
Δ	An (non-karst) unstable area	Greater than 5 (mi.)	
Δ	Categorize the risk of this well / site being in a karst geology	None	
Δ	A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)	
Δ	Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Δ	Requesting a remediation plan approval with this submission	Yes	
---	---	-----	--

Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.

Δ	Have the lateral and vertical extents of contamination been fully delineated	Yes	
Δ	Was this release entirely contained within a lined containment area	Yes	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

Δ	On what estimated date will the remediation commence	05/05/2025	
---	--	------------	--

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

<input type="checkbox"/>	Is (or was) there affected material present needing to be removed	Yes	
<input type="checkbox"/>	Is (or was) there a power wash of the lined containment area (to be) performed	No	
<input type="checkbox"/>	OTHER (Non-listed remedial process)	No	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

<input type="checkbox"/>	I hereby agree and sign off to the above statement	Name: Terry Payton Title: Financial Officer Email: terry@bergsteinerenterprises.com Date: 03/04/2025	
--------------------------	--	---	--

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Liner Inspection Information

Last liner inspection notification (C-141L) recorded	(Unavailable.)
Was all the impacted materials removed from the liner	Unavailable.

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

- Requesting a remediation closure approval with this submission No

Comments

Conditions of Approval

Reasons of Rejection

Remediation plan denied.

Added on 3/11/2025 by bhall

[Remove](#)

As per the last rejection, per 19.15.29.12 C.(4) NMAC if a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to ground water in Table I of 19.15.29.12 NMAC: (c) within (ii) 1000 feet of any fresh water well or spring. The release is within 1000 feet of a fresh water well and regardless of depth to groundwater, the release must be delineated, both horizontally and vertically, and remediated to the most stringent closure standards in Table I.

Added on 3/11/2025 by bhall

[Remove](#)

The question "Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)" was added to the release report. There is a playa lake located southeast of the former tank battery with in approximately 300 feet.

- advanced past 4 feet below ground surface.
Added on 3/12/2025 by bhall [Remove](#)

- The question regarding the distance to "A wetland". There is a mapped wetland located southeast of the former tank battery with in approximately 300 feet.
Added on 3/12/2025 by bhall [Remove](#)

- Per 19.15.29.7 C. NMAC, "Responsible party" means the operator, as defined in 19.15.2 NMAC. Notwithstanding the foregoing, the division, in its sole discretion, may also consider a person causing the release, or controlling the location of the release as the responsible party. OCD will hold the operator of the site responsible for all releases that occurred at the site, including any pipeline releases that may have affected the site.
Added on 3/12/2025 by bhall [Remove](#)

- Vertical delineation is incomplete.
Added on 3/12/2025 by bhall [Remove](#)

- All samples collected in December 1, 2023 have the qualifier "HDSP-1 for the BTEX and TPH samples. This qualifier indicates "Sample container had headspace. Results may be biased low." OCD will not accept these results.
Added on 3/12/2025 by bhall [Remove](#)

- Be advised that this submittal is not applicable to NKL1625134663. This report was not submitted for NKL1625134663. NKL1625134663 is out of compliance.
Added on 3/12/2025 by bhall [Remove](#)

- The question "Categorize the risk of this well / site being in a karst geology" was answered "None" but it is categorized as low karst potential.
Added on 3/12/2025 by bhall [Remove](#)

- The question "Did the release impact areas not on an exploration, development, production, or storage site" was answered "No" but based off of the data provided in the report this release did impact areas not on an exploration, development, production, or storage site.
Added on 3/12/2025 by bhall [Remove](#)

- The question "Was this release entirely contained within a lined containment area" was answered "Yes". Data included in the report indicates that this release was not entirely contained within a lined containment area.
Added on 3/12/2025 by bhall [Remove](#)

- Submit a complete and accurate report through the OCD Permitting website by 4/11/2025.
Added on 3/12/2025 by bhall [Remove](#)

Department Use Only

Contact Phone:	Contact Email:	
Internal Comment:	Reviewer: Brittany Hall	Take Reviewership

Fee Information

Created On: 3/4/2025 8:56 AM	Created By: tpayton
Type: SB553 A.(2)	PO Number: 6W6J1-250304-C-1410
Amount: \$150.00	
Modified On: 3/4/2025 8:56 AM	Modified By: tpayton

Payment Information

Created On: 3/4/2025 10:52 AM	Created By: tpayton
Status: Paid	
Type: Credit Card	
Amount: \$150.00	
Modified On: 3/12/2025 10:14 AM	Modified By: bhall

April 24, 2025

Via Electronic Mail Only

Jesse K. Tremaine
OCD Legal Director
Oil Conservation Division
Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, N.M., 87505
jessek.tremaine@emnrd.gov

Re: *Buckeye Disposal, LLC's response to request for update on open incidents listed in Notice of Violation dated April 3, 2025, State AF #003 (30-025-20980) Incident #nKL1625134663 and #n041813152090*

Dear Mr. Tremaine:

On behalf of our client, Buckeye Disposal, LLC ("Buckeye") (OGRID No. 222759), we provide the following update, as required by the April 3, 2025 Notice of Violation issued by the OCD, referencing State AF #003 (30-025-20980), Incident #nKL1625134663, and #n041813152090 (the "NOV"). The NOV requires Buckeye to send an update to the Oil Conservation Division ("OCD") within 15 business days of receipt (for the OCD's records, Buckeye received the NOV in an April 8, 2025 email) on the following open incidents:

- i. nAB1927632580
- ii. nAB1426550986
- iii. nPRS0522956951
- iv. nSAD0430954509
- v. nBZH2501038804

Buckeye herein timely provides the following updates on these open incidents:

- 1) nAB1927632580: This incident number corresponds to the November 2018 release at Buckeye DU New Mexico State OO1, a salt water disposal site. The C-141 was filed by Buckeye on July 3, 2019 and revised on August 16, 2019. It was approved by OCD on October 2, 2019. Buckeye submitted its Work Plan for Characterization and Remediation of the site on September 10, 2019. OCD approved the Work Plan on October 23, 2020. OCD e-permitting currently shows the status of this incident as "Remediation Plan Approved, Pending submission of Remediation Closure Report from the operator." Buckeye's consultant has been working on the finalization of a revised remediation plan and has recently determined the depth to groundwater beneath the site and is revising the

remediation plan accordingly. Characterization work has been completed at this site, and a final remediation plan is being developed for excavation and remediation of impacted soils.

- 2) nAB1426550986: This incident number corresponds to a 2014 release following a lightning strike at NM DU ST #1 salt water disposal well. Buckeye submitted its C-141 on September 22, 2014, which was approved by OCD on the same day. OCD completed a site inspection on March 3, 2015. Buckeye's consultant has been working on the finalization of a remediation plan. The Buckeye employees in the Carlsbad office who worked on this 2014 project are no longer with the company, and all files were stored onsite. Buckeye will need to visit the Carlsbad office to obtain further information on the work conducted at this site.
- 3) nPRS052956951: This incident number corresponds to a 2005 incident involving a broken PVC line at a CBM SWD (saltwater disposal well), located southwest of Hobbs in Lea County. Buckeye was unable to locate this incident file on OCD Online Imaging. OCD e-permitting currently shows the status of this incident as "Closure Not Approved, Pending submission of C-141 from the operator." Buckeye submitted its Spill Remediation and Workplan to OCD on July 9, 2005 which contained a C-141. On September 10, 2005, Buckeye submitted to OCD its Closure Report. The Closure Report stated that excavation had been completed, the tank battery area was cleaned out and re-graveled, and pending OCD approval Buckeye would begin backhauling contaminated soils. Buckeye attaches these reports to this letter for the OCD's reference. Buckeye contends that this incident should be closed.
- 4) nSAD0430954509: This incident number corresponds to a 2004 incident at CBM SWD. Buckeye was unable to locate this incident file on OCD Online Imaging. OCD e-permitting currently shows the status of this incident as "Closure Not Approved, Pending submission of C-141 from the operator." Buckeye is in the process of locating the files from this release that are in paper format only.
- 5) nBZH2501038804: Buckeye believes that this incident number is associated with the approval of a C-141 for the 2004 and 2005 incidents at the CBM SWD, described *supra* in items 3 and 4. OCD Online Imaging has a C-141 approved by OCD on October 24, 2008 for CBM #1, describing a release due to a busted hose. The OCD conditions of approval to the C-141 on OCD Online Imaging states: "created incident number to track initial C-141 found in well files that was not associated with an incident or RP#." OCD e-permitting currently shows the status as "Initial C-141 Approved, Pending submission of Site Characterization / Remediation Plan OR Remediation Closure Report from the operator." Buckeye is in the process of locating the pertinent files for this release that are in paper format only.

Letter to Jesse K. Tremaine

April 24, 2025

Page 3

Buckeye appreciates the opportunity to work with the OCD to resolve the incidents listed above. Please do not hesitate to contact us with questions regarding the update provided herein.

Very truly yours,

GALLAGHER & KENNEDY, P.A.

By: 
Dalva L. Moellenberg

DLM:SHC

Attachments:

1. Buckeye CBM Disposal Closure 09.2005
2. Buckeye CMB Disposal Spill Remediation 07.09.2005

July 9, 2005

NMOCD Environmental
ATTN: Paul Sheeley
1625 N. French Drive
Hobbs, NM 88240

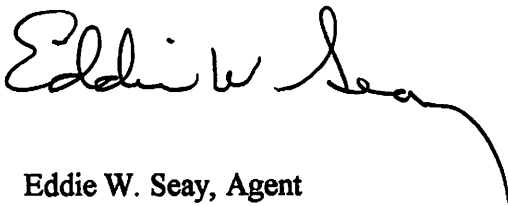
RE: Buckeye Disposal
Spill Remediation and Workplan

Mr. Sheeley:

I am providing you a work plan for the above referenced spill. We are continuing to work at the site, as you requested, due to the shallow groundwater.

If you have any questions, please call.

Sincerely,

A handwritten signature in black ink that reads "Eddie W. Seay". The signature is written in a cursive style with a long, sweeping tail that extends to the right and then curves back down.

Eddie W. Seay, Agent
601 W. Illinois
Hobbs, NM 88242
(505)390-2454
seay04@leaco.net

cc: Buckeye Disposal
Zia Transportation
393-8352

BUCKEYE DISPOSAL
Unit P, Sect. 24, T. 19 S., R. 37 E.
WORK PLAN

Purpose:

The purpose of this work plan is to clean up and remediate in and around the battery area due to a recent spill, see attached C-141. The plan will allow remediation in a manner that will protect the environment and the groundwater in the immediate area.

Investigation & Remediation:

Buckeye will continue to excavate the contaminated soils both around the battery and in the adjacent pasture, as you requested. When all contamination has been removed and stored in plastic, sampling will be conducted of the site, and the OCD will be notified. We will continue to excavate and haul soil until a cleanup level of 100 ppm or less TPH is obtained. Clean soil will be used to replace the contamination and we will properly berm site. Buckeye will notify the OCD of all activities and report all sampling and associated information as required.

Buckeye will follow all environmental and safety guidelines in its endeavor to restore compliance.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company <u>Buckeye Disposal</u>	Contact <u>DANNY DORMAN</u>
Address <u>W. County Rd. Hobbs n.m.</u>	Telephone No. <u>393-8352</u>
Facility Name <u>CBM</u>	Facility Type <u>SWD</u>
Surface Owner <u>PALE McNEILL</u>	Mineral Owner _____ Lease No. _____

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<u>P</u>	<u>24</u>	<u>19-S</u>	<u>37-E</u>	<u>467</u>	<u>P</u>	<u>E</u>	<u>S</u>	<u>LEA</u>

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release <u>WATER & OIL RESIDUE</u>	Volume of Release <u>1000 bbl</u>	Volume Recovered <u>975 bbl</u>
Source of Release <u>BUSTED LINE</u>	Date and Hour of Occurrence <u>6-16</u>	Date and Hour of Discovery <u>6-17</u>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <u>O.C.D. JOHNNY ROBINSON</u>	
By Whom? <u>DANNY DORMAN</u>	Date and Hour <u>6-17-05 1000 am</u>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
6" PVC LINE BROKE, FLUID CONTAINED IN DYKE
RETRIEVED FLUID WITH VACUUM TRUCK

Describe Area Affected and Cleanup Action Taken.*
15' X 66' WEST SIDE OF DYKE
DIRT DUG UP PLACED ON PLASTIC.

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

OIL CONSERVATION DIVISION

Signature: <u>Danny Dorman</u>	Approved by District Supervisor:	
Printed Name: <u>DANNY DORMAN</u>	Approval Date:	Expiration Date:
Title: <u>ASST. MANAGER</u>	Conditions of Approval: <u>(INC)</u>	
E-mail Address: <u>pieterbergstein@nts-online.com</u>	Attached <input type="checkbox"/>	
Date: <u>6-24-05</u> Phone: <u>393-8352</u>		

* Attach Additional Sheets If Necessary

BUCKEYE DISPOSAL
Unit P Sect. 24, T. 19 S., R. 37 E.
GPS: 32 38' 23" N
103 11' 52" W

CLOSURE

Prepared by
Eddie Seay Consulting
September 2005

September 10, 2005

NMOCD Environmental
ATTN: Paul Sheeley
1625 N. French Drive
Hobbs, NM 88240

RE: Buckeye Disposal
Spill Remediation

Mr. Sheeley:

Buckeye has completed the excavation phase of its remediation. As you and I discussed, we would like to backfill the excavated area with clean soil, level, contour and seed.

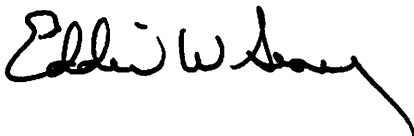
Buckeye has excavated approximately 500 cu. yds. of soil from around the berm area and trenches in the pasture. The soil was placed on plastic until excavation was finished. The soil will be hauled to Sundance for Disposal. Clean soil from McNeill Ranch will be used to backfill excavated area.

The tank battery area was cleaned out to the plastic liner, which covers the entire tank area. After plastic was exposed, gravel was put back down on plastic to hold in place and keep from blowing. Berms were re-constructed around the entire battery area to contain future spillage.

Find attached photos, analytical of excavation and map.

This should finalize the cleanup of this spill as it pertains to the attached C-141. Whenever you give us approval, we will begin backhauling and disposing of contaminated soils. We will notify OCD of any work and file a final report of all activities.

Sincerely,



Eddie W. Seay, Agent
601 W. Illinois
Hobbs, NM 88242
(505)392-2236
seay04@leaco.net

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: Range: Sections:

NAD27 X: Y: Zone: Search Radius:

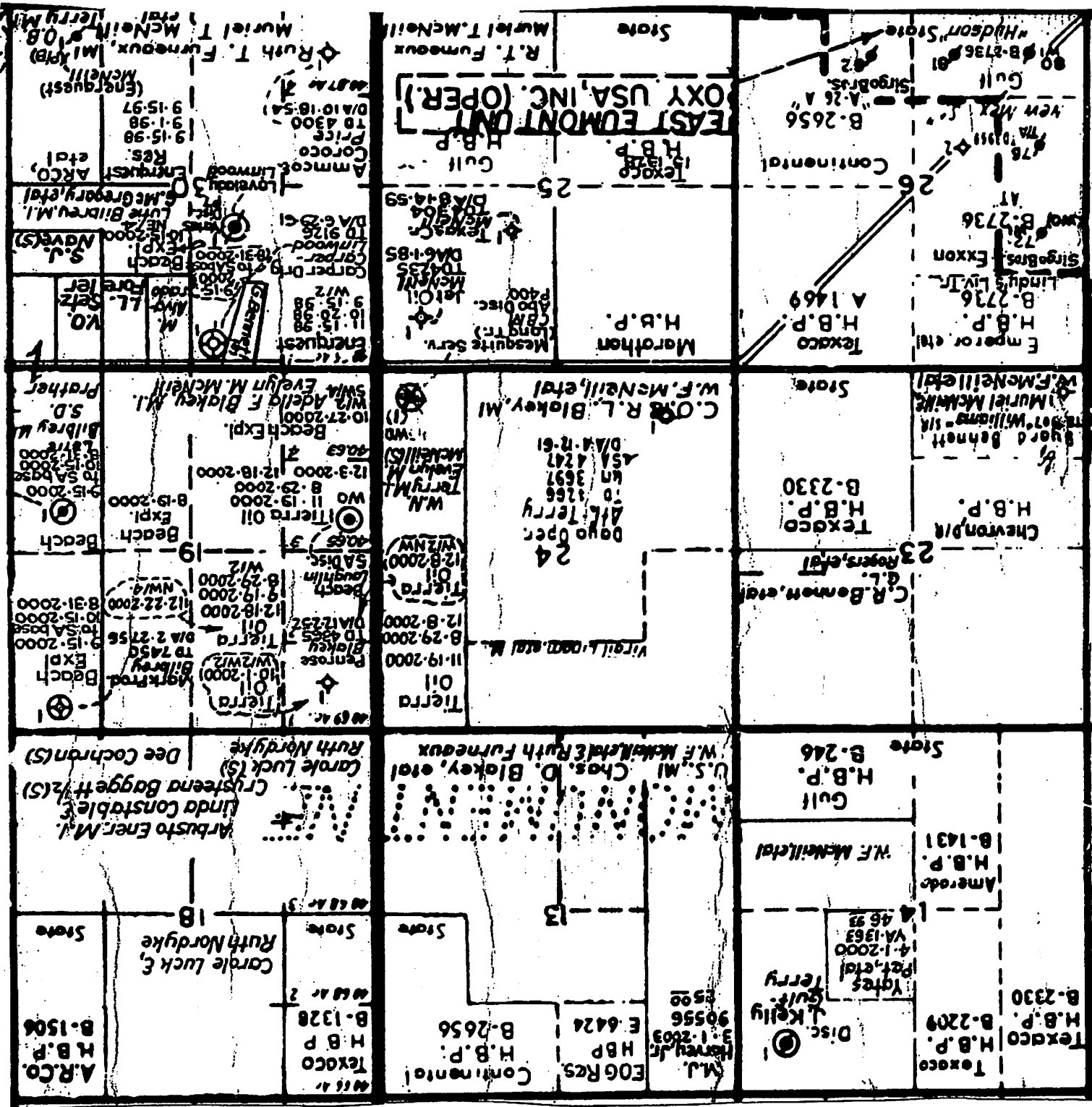
County: Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic All

AVERAGE DEPTH OF WATER REPORT 06/29/2005

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
L	19S	37E	24				2	48	48	48

Record Count: 2



District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised October 10, 2003

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

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Buckeye Disposal	Contact	DANNY DORMAN
Address	W. County Ad. Hobbs n.m.	Telephone No.	393-8352
Facility Name	CBM	Facility Type	SUD
Surface Owner	PALE McNEILL	Mineral Owner	
			Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	24	19-S	37-E	467	P	E	S	LEA

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	WATER & OIL RESIDUE	Volume of Release	1000 LBS	Volume Recovered	975 LBS
Source of Release	BUSTED LINE	Date and Hour of Occurrence	6-16	Date and Hour of Discovery	6-17
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	O.C.D. JOHNNY ROBINSON		
By Whom?	DANNY DORMAN	Date and Hour	6-17-05	1000 LBS	
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
6" PVC LINE BROKE, FLUID CONTAINED IN DYKE
RETRIEVED FLUID WITH VACUUM TRUCK

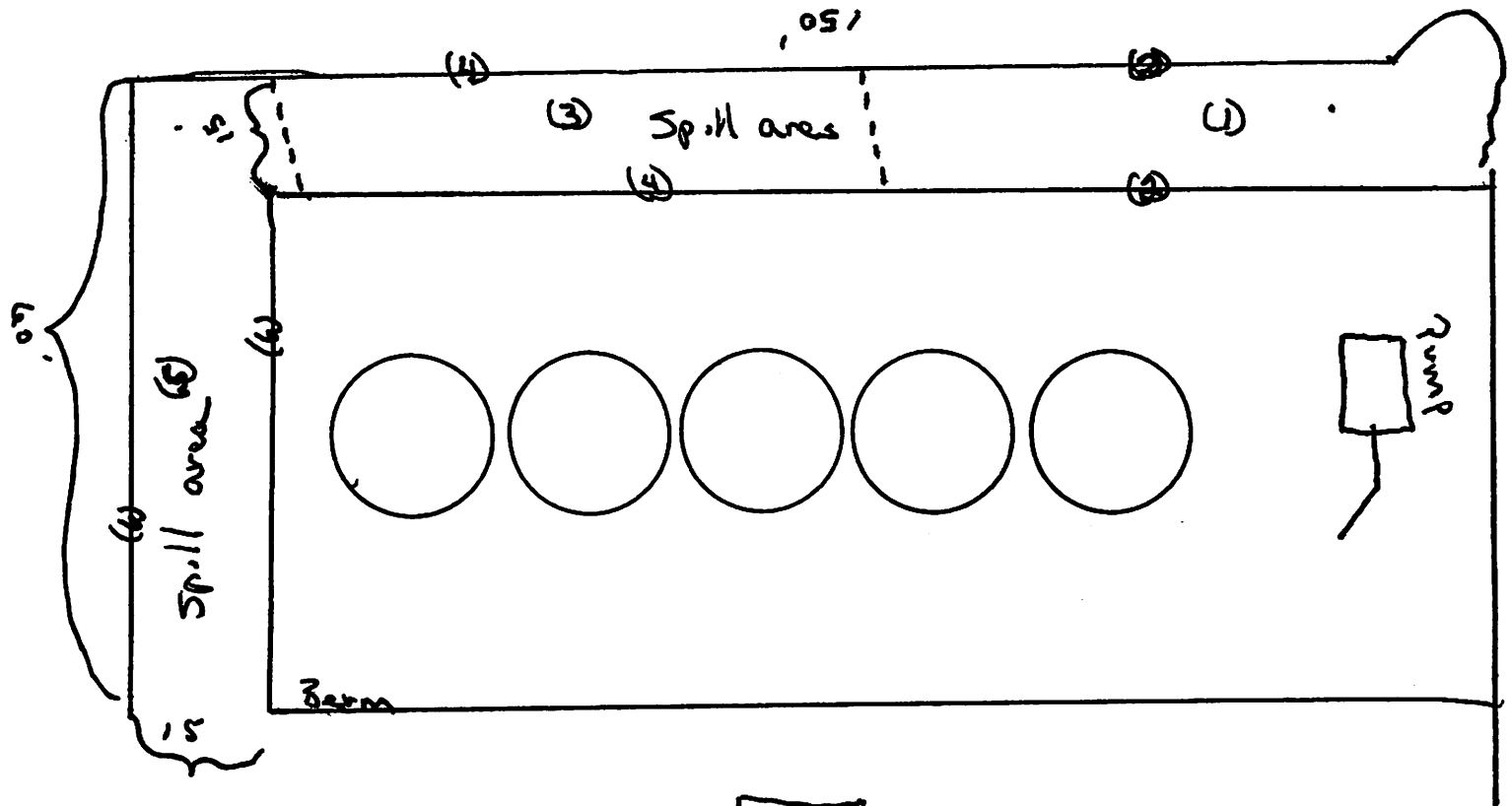
Describe Area Affected and Cleanup Action Taken.*
15' X 60' WEST SIDE OF DYKE
DIRT DUG UP PLACED ON PLASTIC.

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

OIL CONSERVATION DIVISION

Signature: <u>Danny Dorman</u>	Approved by District Supervisor:		
Printed Name: <u>DANNY DORMAN</u>	Approval Date:	Expiration Date:	
Title: <u>ASST. MANAGER</u>	Conditions of Approval:		
E-mail Address: <u>pieterbergstein@nms-online.com</u>	Date: <u>6-24-05</u>		Phone: <u>393-8352</u>
			Attached <input type="checkbox"/>

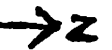
* Attach Additional Sheets If Necessary



Depth of excavated area
is approximately 3 to 4 feet.

Buckeye
SWD

Load
Area





CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page ____ of ____

Company Name: Eddie Seay Consulting
 Project Manager: Eddie Seay
 Address: Los 1 W Hill Nots
 City: Hobbs State: NM Zip: 88242
 Phone #: 2-2236
 Fax #: 2-6949
 Project #: Buckeye Project Owner: P. Bernstein
 Project Name: Buckeye SWD
 Project Location:

BILL TO PO #: _____
 Company: _____
 Attn: _____
 Address: _____
 City: _____
 State: _____ Zip: _____
 Phone #: _____
 Fax #: _____

ANALYSIS REQUEST																
LAB I.D.	Sample I.D.	(GRAB OR COMP.)	# CONTAINERS	MATRIX					PRES.		SAMPLING		DATE	TIME	TPA	C/Nr/le
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID:	ICE / COOL	OTHER:				
H10117-1	SWD - 1	U	1			✓					✓	8/26	8:40	✓	✓	
-2	SWD - 2	U	1			✓					✓	"	9:00	✓	✓	
-3	SWD - 3	U	1			✓					✓	"	9:20	✓	✓	
-4	SWD - 4	U	1			✓					✓	"	9:50	✓	✓	
-5	SWD - 5	U	1			✓					✓	"	10:15	✓	✓	
-6	SWD - 6	U	1			✓					✓	"	10:45	✓	✓	

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished: [Signature] Date: 8/24 Time: 12:45
Relinquished By: _____ Date: _____ Time: _____
Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: _____
Received By: _____ Date: _____ Time: _____
Received By: (Lab Staff) [Signature]
Sample Condition: Cool Intact
 Yes No
CHECKED BY: _____ (Initials)
Phone Result: Yes No **Additional Fax #:** _____
Fax Result: Yes No
REMARKS:
 1 - N Bottom 4 - middle side
 2 - N side 5 - S bottom
 3 - m bottom 6 - S sides



ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
EDDIE SEAY CONSULTING
ATTN: EDDIE SEAY
601 W. ILLINIOS
HOBBS, NM 88242
FAX TO: (505) 392-6949

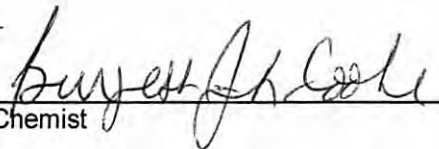
Receiving Date: 08/26/05
Reporting Date: 08/31/05
Project Owner: P. BERNSTEIN
Project Name: BUCKEYE SWD
Project Location: NOT GIVEN

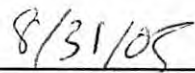
Sampling Date: 08/26/05
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		08/26/05	08/26/05	08/29/05
H10117-1	SWD-1	<10.0	100	240
H10117-2	SWD-2	<10.0	<10.0	80
H10117-3	SWD-3	<10.0	16.1	144
H10117-4	SWD-4	<10.0	189	240
H10117-5	SWD-5	<10.0	31.8	80
H10117-6	SWD-6	<10.0	<10.0	64
Quality Control		796	781	1000
True Value QC		800	800	1000
% Recovery		99.5	97.6	100
Relative Percent Difference		8.3	7.6	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl: Std. Methods 4500-ClB

*Analyses performed on 1:4 w:v aqueous extracts.


Chemist


Date

H10117.XLS

From: [Romero, Rosa, EMNRD](#)
To: [Moellenberg, Dalva L.](#); samantha.catalano@gknet.com; [Hall, Brittany, EMNRD](#); [Powell, Brandon, EMNRD](#); [Bratcher, Michael, EMNRD](#); [Tremaine, Jesse, EMNRD](#)
Cc: [Ayarbe, John](#); [Williams, Ethan](#)
Subject: Buckeye Technical Meeting
Date: Wednesday, October 15, 2025 9:29:12 AM
Attachments: [image001.png](#)

Greetings,

The New Mexico Oil Conservation Division (OCD) is issuing this correspondence as a formal follow-up to the meeting held with DBS&A regarding the former tank battery site. As of the date of this follow up, OCD has not received the required submittals or documentation discussed during that meeting. The following summary reiterates OCD's expectations and establishes definitive deadlines for compliance.

During the meeting, DBS&A indicated that delineation activities had been performed to approximately forty (40) feet below ground surface. OCD clarified that data submitted by email is not accepted and that all site characterization data, remediation plans, and reports must be submitted through the **C-141 application on the OCD Permitting website**. Submittals made outside of this process will not be reviewed or entered into the administrative record. DBS&A also discussed the possibility of obtaining a variance for remediation at depth. OCD stated that **variances will not be considered until complete vertical and lateral delineation of contamination has been achieved**. Additionally, OCD provided examples of successful remediation projects addressing contamination at similar depths without variances. OCD reiterates that alternative or in-situ remediation methods will only be considered once full delineation is complete and supporting data demonstrate that the proposed approach is protective of groundwater, human health, and the environment. A shallow excavation capped with a liner is **not an acceptable remedy**, as contamination would remain in place and fail to provide adequate protection. DBS&A's proposal to blend or dilute impacted soils is **not an approvable remediation approach** under OCD regulations.

To achieve compliance with 19.15.29 NMAC for nOY1813152090 and NKL1625134663, the following technical actions are required within the specified timeframes:

1. **Soil Delineation:** Complete full vertical and lateral delineation of impacted soils and, if encountered, groundwater or surface water contamination by **November 14, 2025**.
2. **Site Characterization and Remediation Plan:** Submit a complete and accurate plan, including all delineation data and proposed remedial approach, through the **C-141 application on the OCD Permitting website by December 14, 2025**.
3. **Remediation Closure and Reclamation Reports:** Submit complete reports documenting remedial actions and reclamation activities via the **C-141 application by February 12, 2026**.
4. **Revegetation Report:** Submit a revegetation report through the **C-141 application**

when vegetative cover meets the requirements of **19.15.29.13(D)(3) NMAC**.

Failure to comply with the specified deadlines and to correct all violations identified in the NOV may result in the assessment of additional civil penalties. Please be advised that continued noncompliance could also prompt further enforcement actions by OCD, including the evaluation of the five additional open incidents under Buckeye Disposal, L.L.C.'s OGRID. OCD strongly encourages prompt and complete resolution of all outstanding compliance issues to avoid escalation of enforcement and additional penalties.

OCD expects immediate attention to these requirements. Please direct all submittals through the OCD Permitting website. Technical questions regarding this matter may be directed to Brittany.Hall@emnrd.nm.gov.



**New Mexico Energy Minerals and Natural Resources Department
Oil Conservation Division**

Rosa Romero

Environmental Bureau Chief

(575) 636-0353

RosaM.Romero@emnrd.nm.gov

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Dylan Fuge
Deputy Secretary

Dylan Fuge, Division Director (Acting)
Oil Conservation Division



NOTICE

Process Updates re: Submissions of Form C-141 Release Notification and Corrective Actions.

12/01/2023

The OCD (Oil Conservation Division) is in the process of updating its current OCD Permitting C-141 incident process and procedures that have largely been unchanged since the implementation of the 2018 release rule. The three current available incident statuses are: Closure Not Approved, Closure Approved, and Cancelled. OCD has determined that these established statuses do not reflect actual practice and project in the field or provide operators and the public with the ability to quickly and properly evaluate the status of an unauthorized release.

The C-141 form is used by Operators to notify, request approvals, and communicate the progress of unauthorized Oil & Gas releases pursuant to 19.15.29 NMAC. The update to OCD Permitting will provide better alignment with the provisions of 19.15.29 NMAC, digitize the C-141 form, and incorporate both into OCD permitting. Today's update will include the addition of 16 new incident statuses and a completely digitized version of the C-141. The new incident procedures will provide more accurate management and tracking of incident statuses throughout the lifecycle of a release. The update released today is the first of several phases and likely the biggest change to current operations. Future phases will focus on refinement and include new submission pipelines for C-141 applications as they are developed, which will allow OCD to prioritize applications by type.

The document posted on the EMNRD Website titled "Procedures for Implementation of the Spill Rule" released September 6, 2019, is no longer valid as the release of this Notice and is replaced by this document.

With today's OCD Permitting release, and in anticipation of upcoming developments, certain aspects of the OCD Incident review processes will be adjusted without altering the existing OCD policy. The first major change is that Form C-141 will now be completely digital and contained within OCD Permitting. Operators will no longer need to attach a signed copy to their C-141 applications. The new digital C-141 consists of a series of questions that the Operator is required to answer, in addition to attaching supporting documents. The questions were historically found in the attached documents. The information gathered from the questions will assist OCD in prioritizing and efficiently reviewing incident applications.

Pending C-141 submittals that are currently under OCD review do not need to be resubmitted. OCD will continue to process pending C-141 using the current C-141 method. After processing, the incident will be

given the proper status based upon the submission. New or subsequent C-141 submissions shall adhere to the new revised process.

It is important to note that, as of this release, OCD does not intend to retrospectively review incidents marked with a “Closure Approved Status” from 2018 to the present. These incidents will be granted a legacy closure status of “Incident Closure Approved”. Although there are no immediate plans to revisit closed incidents, Operators are reminded to adhere to any rules or conditions of approval pertaining to deferrals, reclamation, or revegetation. OCD reserves the right to evaluate these sites in the future.

Below are a few examples of the proposed additional detailed statuses to be implemented and may be changed during future development.

- Notification/ Initial Stage: 19.15.29.10 NMAC
 - Notification Received, Pending Initial C-141 from Operator.
 - Initial C-141 Accepted, Pending Submission of Site Char & Remediation Plan OR Remediation Closure Report from the operator.

- Remediation Stage: 19.15.29.11 & 12 NMAC
 - Site Characterization & Remediation Plan Submitted, Pending OCD Review.
 - Site Characterization & Remediation Plan Approved, Pending Remediation Closure Report from Operator.
 - Remediation Deferred, Pending Remediation Closure Report from Operator. **(Note: releases will not be closed in the OCD system while in this stage)**
 - Remediation Closure Report Approved, Pending Reclamation Report from Operator. **(Note: releases will not be closed in the OCD system while in this stage)**

- Restoration/Reclamation/Re-vegetation Stage: 19.15.29.13 NMAC
 - Reclamation Report Received, Pending OCD Review. **(Note: releases will not be closed in the OCD system while in this stage)**
 - Re-vegetation Extension approved, Pending Re-vegetation report from Operator.
 - Restoration Complete **(Release will be considered “closed” in this status)**
 - Incident Closure Approved **(For historic releases)**

The redesign is currently in the first phase of development and the examples provided in this notice and attached documents are subject to change. Additional notices will be posted on the Divisions website prior to implementation. If you have any questions regarding this notice, please email the OCD Environmental general e-mail box at ocd.enviro@emnrd.nm.gov with the subject line of Notice: Digital C-141 and Incident Status Change.

Sincerely,



Dylan Fuge

Deputy Secretary

Oil Conservation Division Director (Acting)

Procedures for Implementation of the Digital C-141 and the release rule (19.15.29 NMAC).

This document serves as a comprehensive guide for OCD Environmental Bureau Staff and regulated Operators outlining the implementation of the digital C-141, updated incident statuses, and formalizing the existing release rule (19.15.29 NMAC) as of August 14, 2018. This updated version aims to address emerging issues and ensure uniform responses fostering consistency in our approach to rule implementation.

Definitions

Non- waste Containing Material:

Material that does not contain trash/debris and is less than 600 mg/kg chlorides, or background levels whichever is greater; 100 mg/kg TPH; 50 mg/kg BTEX; and 10 mg/kg Benzene. Soils that have been treated, remediated, or land farmed and meet the above concentrations are acceptable. Soil blending or mixing of contaminated soils with cleaner soils for the purpose of reducing chloride/hydrocarbon concentrations is not acceptable.

Remediation:

Remediating impacted soil to Table I Standards or other applicable remediation closure standards by completing an OCD approved Remediation Plan.

Reclamation:

Perform backfilling, compacting, and stabilizing to prevent erosion and ponding of water in impacted areas and reclaiming those areas to contain non- waste containing material based on final land use. OR a soil cover approved by federal, state, or tribal agencies on lands managed or owned by those agencies that provide equal to or better protection of fresh water, human health, or the environment.

Revegetation:

Uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds OR a vegetative cover approved by federal, state, or tribal agencies on lands managed or owned by those agencies that provide equal to or better protection of fresh water, human health, or the environment.

Restoration:

When an unauthorized release has been remediated, reclaimed, and revegetated to a condition that existed prior to the release or their final land use.

Significant watercourse:

A watercourse with a defined bed and bank either named or identified by a dashed blue line on a USGS 7.5-minute quadrangle map or the next lower order tributary with a defined bed and bank of such watercourse.

Unstable Area:

A location that is susceptible to natural or human-induced events or forces capable of impairing the integrity of some or all a division-approved facility's structural components. Examples of unstable areas are areas of poor foundation conditions, areas susceptible to mass earth movements, and karst terrain

areas where karst topography is developed because of dissolution of limestone, dolomite, or other soluble rock. Characteristic physiographic features of karst terrain include sinkholes, sinking streams, caves, large springs, and blind valleys.

Watercourse:

A river, creek, arroyo, canyon, draw or wash or other channel having definite banks and bed with visible evidence of the occasional flow of water.

Variance Request:

The responsible party may file a written request for a variance for any requirement of 19.15.29 NMAC with the appropriate division district office. A variance requested in accordance with 19.15.29.14 NMAC must provide equal or greater protection of fresh water, public health, and the environment.

C-141 Form Family Application Types

Notice of Release (NOR)

The NOR is a notification that allows the Operators to quickly create an incident in OCD Permitting and to meet the major release reporting requirements.

Operators will use this application when they:

- Must create an incident number in OCD Permitting for all reportable releases.
- Must report a major release which meets the requirements of 19.15.29.10.A within 24 hours of discovery.

Pursuant to 19.15.2.12.B NMAC this will be the preferred method to report major releases. Be advised if an operator chooses to call in the release or send an e-mail, they will still be required to fill out this NOR as a condition of approval, as it is essential to OCD's records.

This notification does NOT replace the required initial C-141 application as it is designed to collect the bare minimum of information to quickly communicate with the OCD.

See **Figure 1** for a step-by-step guide to uploading a Notice of Release.

Notice of Legacy Release (NOR)

The Notice of Legacy Release application type is designated based upon the answers provided in the completion of the NOR application. While completing a NOR if the user enters a date of discovery prior to 8/15/2018, the notification type will automatically change to a Notice of Legacy Release.

Operators will use this application when:

- Create an incident number in OCD Permitting for a release prior to 8/15/2018.

This notification does NOT replace the required initial C-141 application as it is designed to collect the bare minimum of information to quickly communicate with the OCD.

See **Figure 1** for a step-by-step guide to uploading a Notice of Release.

Release Corrective Action (C-141)

The C-141 application type is a multipurpose application that allows Operators to submit the different C-141 subtypes (described below) based upon the answers provided in the applications. The applications cost \$150 and Operators have the ability to move through the entire C-141 life cycle based upon the information provided. For example, operators can submit an initial C-141 and a Remediation Closure Report in the same application.

Operators will use this Application to submit:

- Initial C-141
- Site Characterization and Remediation Plan
- Deferral Request
- Remediation Closure Report
- Reclamation Report
- Re-vegetation Report

Initial C-141 (C-141-v-initial)

This C-141 application type is designated based upon the answers provided in the completion of the Release Corrective Action (C-141) multipurpose application. C-141 submissions that do not request a review of a remediation plan will be classified as an Initial C-141.

Operators will use this application to submit:

- An Initial C-141 confirming the data provided in the NOR within 15 days of discovery of an authorized release pursuant to 19.15.29.10.A(2) & 19.15.29.10.B NMAC.

See **Figure 2** for a step-by-step guide to uploading an Initial C-141 application.

Site Characterization and Remediation Plan (C-141-v-Plan)

This C-141 application type is a subtype of the Release Corrective Action (C-141) multipurpose application. This form is not submitted independently and is a C-141 submission type that has a request to review a Site Characterization and Remediation Plan.

Operators will use this application to submit:

- A Site Characterization and Remediation Plan C-141 within 90 days* of discovery of an unauthorized release pursuant to 19.15.29.11.B NMAC
- A Remediation Closure Report within 90 days* of discovery of an authorized release pursuant to 19.15.29.12.B(1) NMAC.

See **Figure 3** for a step-by-step guide to uploading a Site Characterization and Remediation.

* 90 days are for sites that have not been granted an extension or any other Division approved timeframe.

Note Dig and Haul remediations are the ONLY remediation approach that is preapproved by the OCD. Any other type of remediation commenced by the operator without Division approval may result in additional remediation.

Notification of Sampling (C-141N)

The Notification of Sampling is a notification application that allows the Operators to notify the OCD of any confirmation closure sampling. This application is not for the use of submitting sampling plans and any such plans received in this application type will not be reviewed or accepted.

Operators Will use this application to:

- Notify the OCD two (2) business days prior to conducting final sampling pursuant to 19.15.29.12.D(1)(a) NMAC.

Pursuant to 19.15.2.12.B NMAC this will be the preferred method for reporting all sampling events. Be advised if an operator chooses to call in the final sampling notification or send an e-mail, they will still be required to fill out this Notification as a condition of approval, as it is essential to OCD's records.

Operators may request a variance to the two (2) business day notice of sampling via email however, a notification application must also be submitted for that sampling event. Failure to complete the notification of confirmation sampling may result in the samples not being accepted for closure.

See **Figure 4** for a step-by-step guide to uploading a Notification of Sampling.

Notification of Liner Inspection (C-141L)

The Notification of Liner Inspection is a notification application that allows the Operators to notify the OCD of any integrity Liner confirmation inspections.

Operators will use this Application to:

- Notify the OCD two (2) business days prior to conducting a liner integrity inspection pursuant to 19.15.29.11.A(5)(a)(ii) NMAC

Pursuant to 19.15.2.12.B NMAC this will be the preferred method to reporting all liner inspection events. Be advised if an operator chooses to call in the liner inspection notification or send an e-mail, they will still be required to fill out this Notification as a condition of approval, as it is essential to OCD's records.

Operators may request a variance to the two (2) business day notice of Liner inspection via email however, a notification application must also be submitted for that inspection event. Failure to complete the notification of Liner inspection may result in the inspection not being accepted for closure.

See Figure 4 for a step-by-step guide to uploading a Notification of Liner Inspection.

Remediation Closure Report (C-141-v-Closure)

This C-141 application type is a subtype of the Release Corrective Action (C-141) multipurpose application. This form is not submitted independently and is a C-141 submission type that has a request to review a Remediation Closure Report.

Operators will use this Application to submit:

- A Remediation Closure Report within 90 days* of discovery of an authorized release pursuant to 19.15.29.12.B(1) NMAC.

See **Figure 5** for a step-by-step guide to uploading a Remediation Closure Report.

* 90 days are for sites that have not been granted an extension or any other Division approved timeframe.

Reclamation Report (C-141-v-Reclamation)

This C-141 application type is a subtype of the Release Corrective Action (C-141) multipurpose application. This form is not submitted independently and is a C-141 submission type that has a request to review a Reclamation Report.

Operators will use this Application to submit:

- A Reclamation Report pursuant to 19.15.29.13.D & 19.15.29.13.D(1) NMAC.

See **Figure 6** for a step-by-step guide to uploading a Reclamation Report.

Re-Vegetation Report (C-141-v-Revegetation)

This C-141 application type is a subtype of the Release Corrective Action (C-141) multipurpose application. This form is not submitted independently and is a C-141 submission type that has a request to review a Reclamation Report. The Applications cost \$150 to submit.

Operators will use this Application to submit:

- A Reclamation Report pursuant to 19.15.29.13.D & 19.15.29.13.D(1) NMAC.

See **Figure 7** for a step-by-step guide to uploading a Remediation Closure Report.

Cancellation Request (C-141C)

The Cancellation Request application allows the Operators to cancel incidents that were created in error. This application does not require a submission fee.

- Operators will use this application when they need to Cancel an incident because:
 - o Association API#, Facility # were incorrectly recorded.
 - o Locational Data, Unit Letter, Section, Township, Range, Latitude and Longitude incorrectly recorded.
 - o Duplicate incidents were reported.
 - o False incident or incident was not reportable.
 - o Venting/Flaring event was incorrectly reported on C-141 and needs to be reported on C-129.
 - o Responsible operator incorrectly reported.

Alternative Remediation Report (C-141AR)

The Alternative Remediation Report Application allows operators to submit reports that are required from an approved remediation plan. To access this submission Users, need to navigate to the OCD All Forms section.

Operators Will use this Application when:

- To submit Scheduled Reports of Remediation activities.

This application is only for submissions of scheduled reports of remediation activities. Any request to change Remediation Plans or Request for Remediation closure will be rejected.

Application Statuses

For clarification, when discussing statuses there are two different status types in OCD Permitting, applications statuses and Incident statuses.

Application Statuses are given to individual applications like C-103 or C-141 and pertain to 1 specific submission. Applications that have a fee associated to them have also have a Purchase Order # (PO#). All applications have an Application ID commonly referred to as an “App ID” or “Action ID.” Applications can be searched by left clicking Operator Data and selecting Action Status. Below are all the possible application statuses.

Draft (DRAFT)

An application has been created by a user and has not been submitted to the OCD for review. Users can return to this application at any time and edit the details. To remove a draft application from your list, users can delete the application by clicking the blue Delete button.

Pending Payment (PPAYM)

This is an application in which the user has clicked the “Make Payment” button, and the payment was unsuccessful or pending reconciliation. These applications cannot be edited or returned to and will be automatically rejected or reconciled from the system within 7 days.

Under OCD Review (SUBMITTED)

The application has successfully been submitted to the OCD and is pending reviewing.

Approved (APPROVED)

The application has been reviewed by the OCD and has been approved. The information in the application has been accepted into the OCD database and image files/attachments are sent to imaging for record keeping.

Rejected (REJECTED)

The application has been reviewed by the OCD and has been rejected. The information in the application will not be accepted into the OCD database and image files/attachments will not be sent to imaging for record keeping.

New Incident Statuses

Just like Application Status, Incidents have their own unique status. Incidents are always identified in OCD permitting by an incident number that will start with the letter N and will be proceeded typically by 3 letters and 10 numbers Example: NAPP2331233024. Incident statuses automatically update when received and the approved dates are added to the Incident Dates section. This process is largely automated and is driven by C-141 Application submissions. Incidents statuses are not affected by rejected applications. The incident status will always display the furthest submitted or approved status.

Example: An incident has an approved Site Characterization and Remediation Plan. A C-141 application requesting remediation closure is submitted and subsequently rejected. The status of this incident will be *Remediation Plan Approved, Pending submission of Remediation Closure Report* from the operator because the last approved application was the remediation plan C-141 application.

Notification Received, Pending OCD Review:

Displayed when the Operator has submitted a Notice of Release (NOR) Application and it is currently being reviewed by the OCD.

Notification Accepted, Pending submission of Initial C-141 from the operator:

Displayed when the Operator has submitted a Notice of Release (NOR) Application and it has been approved by the OCD.

Initial C-141 Received, Pending OCD Review:

Displayed when the Operator has submitted an initial C-141 Application, and it is currently being reviewed by the OCD.

Initial C-141 Approved, Pending submission of Site Characterization / Remediation Plan OR Remediation Closure Report from the operator:

Displayed when the Operator has submitted an initial C-141 Application, and it has been approved the OCD.

Remediation Plan Received, Pending OCD Review:

Displayed when the Operator has submitted a Site Characterization & Remediation plan C-141 Application, and it is currently being reviewed by the OCD.

Remediation Plan Approved, Pending submission of Remediation Closure Report from the operator:

Displayed when the Operator has submitted a Site Characterization & Remediation plan C-141 Application, and it has been approved by the OCD.

Deferral Request Received, Pending OCD Review:

Displayed when the Operator has submitted a Deferral request C-141 Application, and it is currently being reviewed by the OCD.

Deferral Request Approved, Pending submission of Remediation Closure Report from the operator:

Displayed when the Operator has submitted a Deferral request C-141 Application, and it has been approved by the OCD.

Remediation Closure Report Received, Pending OCD Review:

Displayed when the Operator has submitted a Remediation Closure request C-141 Application, and it is currently being reviewed by the OCD.

Remediation Closure Report Approved, Pending submission of Reclamation Report from the operator:

Displayed when the Operator has submitted a Remediation Closure request C-141 Application, and it has been approved by the OCD.

Reclamation Report Received, Pending OCD Review:

Displayed when the Operator has submitted a Reclamation Report C-141 Application, and it is currently being reviewed by the OCD.

Reclamation Report Approved, Pending submission of Re-vegetation Report from the operator:

Displayed when the Operator has submitted a Reclamation Report C-141 Application, and it has been approved by the OCD.

Re-vegetation Report Received, Pending OCD Review:

Displayed when the Operator has submitted a Re-vegetation Report C-141 Application, and it is currently being reviewed by the OCD.

Re-vegetation Report Approved, Restoration Complete:

Displayed when the Operator has submitted a Re-vegetation Report C-141 Application, and it has been approved by the OCD. This status indicates that no further action is required by the Operator.

Legacy Incident Status.

Incident Closure Approved:

Displayed when the incident was in the historic "Closure Approved" status prior to December 1, 2023. Operators are still required to follow any Conditions of Approval or reclamation requirements that were approved.

Closure Not Approved, Pending submission of C-141 from the operator:

Displayed when the incident was created prior to December 1, 2023 and the incident does not have any pending applications for OCD review. This status is a default status if the Division cannot determine a status due to missing information. This status will change and follow the new statuses when the Operator submits an application or if any incident dates are manual added by the OCD.

C-129 Incident Status.

C-129 Venting and Flaring Incident status were also affected by the new incident changes. The following are the new status for incidents created by C-129 submissions only.

Notification Accepted, Pending Submission of Amended C-129 from Operator:

Displayed when the User has submitted a Notice of Major Venting and Flaring (NOMVF) and is required to submit a C-129A to complete reporting within 15 days. See December 7, 2021 C-129 Guidance document for additional information.

Initial C-129 Accepted, Operator Required to follow Monthly/annual Waste Rule Reporting

Requirements.:

Displayed when the User has submitted a complete C-129. No additional action is required for this incident however, Users are required to follow C-115B and Annual certification Reporting requirements. See December 7, 2021 C-129 Guidance document for additional information.

Amended C-129 Accepted, Operator Required to follow Monthly/annual Waste Rule Reporting

Requirements.:

Displayed when the User has submitted an Amended C-129. No additional action is required for this incident however, Users are required to follow C-115B and Annual certification Reporting requirements. See December 7, 2021 C-129 Guidance document for additional information.

Cancelled:

Displayed when the User has submitted a cancellation C-129C No additional action is required for this incident. See December 7, 2021 C-129 Guidance document for additional information.

Frequently Asked Questions

I. DETERMINING DEPTH TO GROUNDWATER:

- A. The remediation levels provided in Table I are largely dependent upon depth to groundwater. As such, the OCD focuses upon depth to water estimation. As written, 19.15.11(A)(2) NMAC allows for various means of determining depth to groundwater. If nearby wells are used, it is preferable if they are situated within ½-mile of the release, the water level information is no more than 25 years old, and well construction information is provided. If the water level information does not meet these criteria, the OCD may require boring to a limited depth for verification. If the operator has applicable information which does not meet the above preference, OCD will review it on a case-by-case basis to determine if it is acceptable.
- B. If the water well information is representative of a confined aquifer (often described as “artesian”), the depth to water in the well will be considered the depth to the bottom of the upper confining layer, not the observed water level in the well.
- C. It is important to note that wells installed for water supply purposes may not be screened across shallower, less-productive zones. The less-productive zones might contain protectable water.
- D. Operators are still required to provide depth to ground water determinations even if a criteria like “High Karst” automatically requires the most stringent remediation requirements.

II. VOLUME CALCULATIONS:

- A. Responsible parties have asked why the new form C-141 requires volume calculations and why there is a question on the release notification form regarding the concentration of chloride in the produced water. Under 19.15.29.11(A)(5)(c) NMAC, the vertical extent of chloride contamination must be delineated to less than 600 mg/kg even when the depth to groundwater is between 50 and 100 feet if any produced water released contains more than 10,000 mg/kg of chloride and the volume released is either unknown or more than 200 barrels of unrecovered water. The volume released can be accomplished in any number of ways, but it must be reasonable. Otherwise, the OCD will consider the volume as unknown, and the responsible party must delineate accordingly.
 - 1. It is important to note that this does not affect the remediation requirements under Table I, only the site characterization limits.
- B. Remediation and reclamation surface area/volume calculations are used to assist OCD in determining deferrals, variances, and compliance.

III. RELEASE DELINEATION:

- A. Horizontal and vertical delineation, as required in 19.15.29 NMAC, must be completed to both the Remediation Standards of Table I and the Reclamation requirements of 19.15.29.13 NMAC. This is to ensure that the release did not migrate to areas no longer reasonably needed for production or subsequent drilling activities and to identify areas/volumes that are required to be reclaimed. Deferrals will not be considered without complete delineation.

IV. LINERS USED AS A REMEDIATION APPROACH:

- A. Synthetic liners that are placed on top of contamination as a remediation variance in an effort solely to ensure contamination doesn't migrate further is not equal or better protection, as the contamination will remain in place. **Variances with a liner request solely to reduce cleanup will be denied.**
- B. OCD may also require landowner concurrence for any variance request to permanently leave contamination in place.

V. REMEDIATION OF AREAS REASONABLY NEEDED VS AREAS NOT REASONABLY NEEDED:

- A. All areas, regardless of if they are in an area reasonably needed for production operations or subsequent drilling operations, must be remediated to the remediation requirements in Table I of 19.15.29 NMAC as soon as possible.
- B. Only the areas immediately under or around production equipment where remediation could cause a major facility deconstruction may be granted a deferral of remediation. The area must be fully delineated and cannot pose an imminent risk.
 - 1. Major facility deconstruction typically involves concrete poured pads, structures, engineered designed facilities that include automation/electrical lines, sprayed in liners, etc. OCD will review each deferral request on a case-by-case basis.

VI. RECLAMATION OF AREAS REASONABLY NEEDED VS AREAS NOT REASONABLY NEEDED:

- A. Reclamation of areas that are NOT reasonably needed for production operations or subsequent drilling operations, must be reclaimed as soon as possible following remediation.
- B. Reclamation of areas that are still reasonably needed for production operations or subsequent drilling operations are NOT required to be reclaimed immediately following remediation. These areas are required to be fully delineated, compacted, covered, paved or otherwise stabilized in a manner that minimizes dust and erosion.
 - 1. Once these areas are no longer reasonably needed, they must be reclaimed within 90 days. This normally occurs at plugging & abandonment or during a major facility deconstruction.

VII. REMEDIATION CLOSURE SAMPLING PLANS:

- A. If a responsible party wishes to remediate a spill within 90 days of its discovery without submitting a remediation plan, the closure samples must reflect the gathering of composites representative of no more than 200 square feet per composite sample per 19.15.29.12(D)(1)(c) NMAC. Alternative sampling plans will only be allowed with written permission from the OCD. In accordance with 19.15.29.12(D)(1)(b) NMAC, there are no listed standards as to what a responsible party can base an alternative sampling plan upon. Therefore, the OCD may request justifications or methods used in constructing the plan such that an appropriate decision can be made. OCD staff can provide verbal approval, however, it must be followed up in writing, such as in an email.

VIII. REMEDIATION CLOSURE SAMPLING NOTICE & LINER INSPECTION NOTICES:

- A. The responsible party is required to provide notice two (2) business days prior to final sample collection or liner inspections pursuant to 19.15.29.12.D(1)(a) and 19.15.29.11.A(5)(a)(ii) NMAC.
- B. If a responsible party determines the release site may meet remediation closure standards during delineation activities and wish to use those samples for remediation closure, the responsible party must provide proper two (2) business day notice to the OCD pursuant to 19.15.29.12 NMAC.

IX. BACKGROUND SAMPLES:

- A. The rule speaks of “background” chloride concentrations in three places: 19.15.29.11(A)(5)(c) NMAC, regarding unknown or large volume releases; as a footnote to Table I; and in 19.15.29.13(D)(1) NMAC regarding reclamation. When obtaining information to determine background limits, a grab, not composite, sample(s) should be gathered in endemic areas undisturbed by oil and gas activities, nominally uphill from the release area, no closer than 50 feet but no farther than 100 feet from the lateral and horizontal extents of a release’s impact or disturbed areas. The background sampling should be representative of the entire horizontal and vertical extent of the release.
- B. There are no natural background levels for TPH, BTEX, or Benzene.

X. GROUND WATER IMPACTS:

- A. The regulatory oversight of all releases is initially covered under 19.15.29 NMAC. However, once a determination is made that groundwater or surface water has been impacted, corrective action is carried out under the provisions of 19.15.30 NMAC. These provisions potentially require the development of Stage 1 (investigation) and Stage 2 (remediation) abatement plans. There are also requirements for public notice.
- B. Furthermore, 19.15.30 NMAC does not have numeric cleanup levels for contaminated soils. As written:
“The responsible person shall abate the vadose zone so that water contaminants in the vadose zone will not with reasonable probability contaminate groundwater or surface water in excess of the standards in Subsections B and C of 19.15.30.9 NMAC, through leaching, percolating or other transport mechanisms, or as the water table elevation fluctuates.” (19.15.30.9(A) NMAC).
- C. 19.15.30.9(B) and (C) NMAC refer to standards found in the Water Quality Control Commission regulations; 20.6.2 and 20.6.4 NMAC.

XI. FEES:

- A. The new fees legislation took effect July 1, 2019, and requires a \$150 filing fee to accompany each C-141 submission. This includes any submittal of a digital C-141, including but not limited to: Initial C-141s, Site characterization & Remediation plans, Remediation Closure Reports, Reclamation Reports, and Revegetation reports. Requests and notifications made separate from the C-141 do not require a fee, this includes but is not limited to: separate alternative sampling plans, notifications, cancelations, alternative remediation reports.

FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

Log into OCD Permitting and ensure that you are Logged into the Correct OGRID if you have access to multiples. It is very important that the correct OGRID is selected as the Responsible Party of the incident will be assigned to the reporting OGRID.

1. Left Click on the Submissions tab in the top right of the website.
2. Left Click on Releases and Select [NOTIFY] Notification of Release

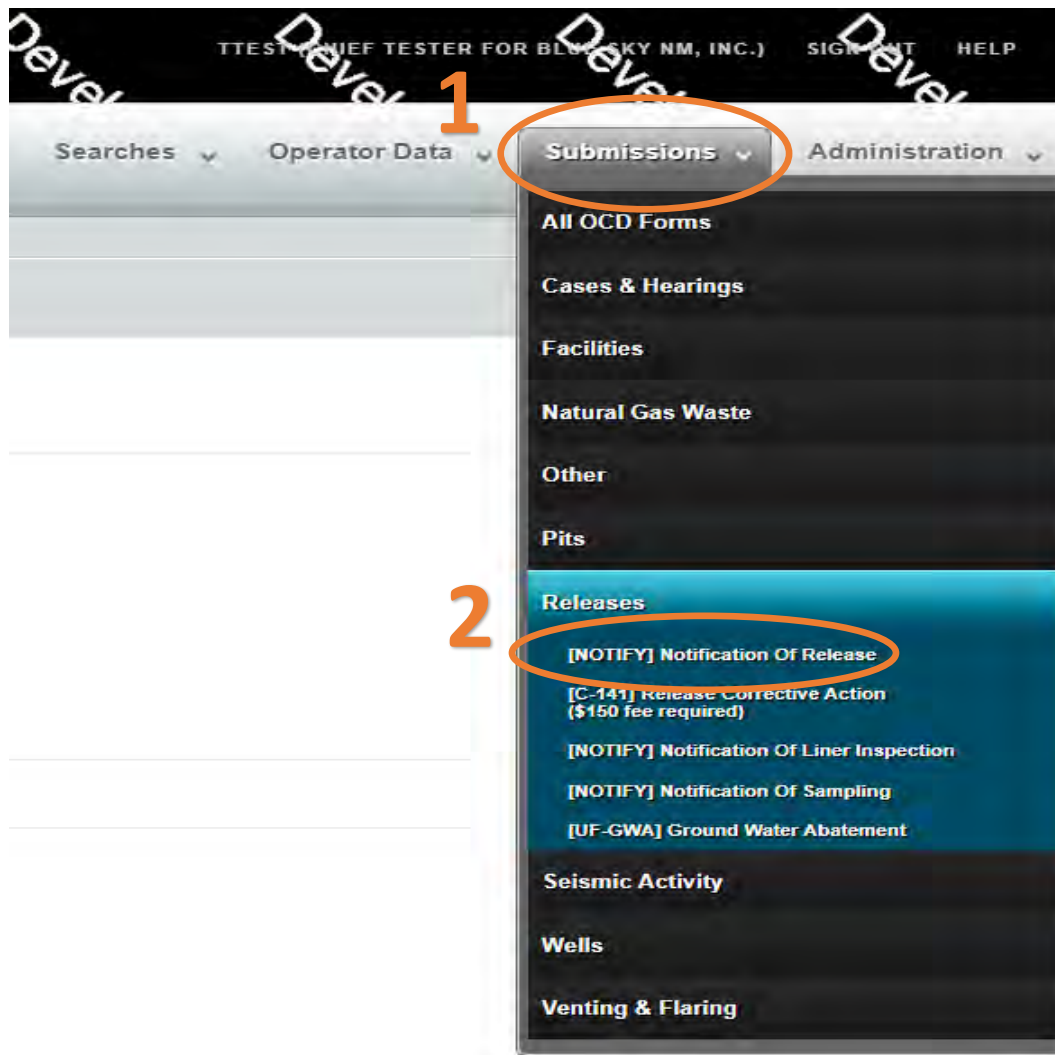


FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

On this Permitting page Users can review the status of all previous submitted NOR Applications from their current OGRID . The user can also resume working on a previous draft version of the application by left clicking on the PO Number hyperlink. Applications types that are under OCD Review or have been Approved/ Rejected cannot be modified.

3. To create a new Notice of Release Application scroll down and left click on the New NOR Application button.

The screenshot shows the 'OCD Permitting' interface. At the top, there is a breadcrumb trail: Home > Submissions > Releases > NOR. Below this, there is a 'Status:' dropdown menu with 'All' selected, indicated by an orange arrow. The main content is a table of NOR applications. The first row of the table has an orange arrow pointing to the 'PO Number' column. At the bottom of the table, there is a pagination control showing '1 2 Next' and 'Displaying screen 1 of 2'. Below the table, there is a large orange number '3' and a blue button labeled 'New NOR Application' which is circled in orange.

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
OJYR9-221103-NOR000	NOR		Draft Application	\$0.00	Non-Fee Application	11/3/2022	Ramona Marcus	11/3/2022
OVARK-221103-NOR000	NOR		Draft Application	\$0.00	Non-Fee Application	11/3/2022	Cory Smith	11/3/2022
RBE17-221109-NOR000	NOR		Draft Application	\$0.00	Non-Fee Application	11/9/2022	Cory Smith	11/9/2022
FEYH7-230118-NOR000	NOR		Draft Application	\$0.00	Non-Fee Application	1/18/2023	Cory Smith	1/18/2023
G4WL1-230220-NOR000	NOR		Draft Application	\$0.00	Non-Fee Application	2/20/2023	Cory Smith	2/20/2023
7V4C1-230824-NOR000	NOR		Draft Application	\$0.00	Non-Fee Application	8/24/2023	Michael Buchanan	8/24/2023
LXS1E-230825-NOR000	NOR	nAPP2323731968	Approved by the OCD	\$0.00	Non-Fee Application	8/25/2023	Cory Smith	8/25/2023

1 2 [Next](#)
Displaying screen 1 of 2

3

[New NOR Application](#)

FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

3a. OCD Permitting general functions will display any errors in the orange ribbon band at the top of your screen and inline while working through the applications.

The Submissions Contact Application, Fee Payment section of the NOR is automatically filled out based upon the Users default contact information. The contact e-mail used in this section is where any approvals/rejections will be sent too. In the even that you are submitting this on behalf of another member of your organization you may edit the contact information by clicking on the edit submissions contact details button.

Submit Non-Fee [NOTIFY] Notification Of Release (NOR)

Submission Contact, Application, Fee and Payment Details

First Name: Test Application Status: Draft Application

Last Name: Test • Please call (505) 476-3441 or email ocd.fees@state.nm.us for support.

Email: cory.smith@emnrd.nm.gov Fee Amount: \$0.00

Edit Submission Contact Details

3a

Submission Contact Details

- The initial contact details for submissions are prefilled on creation from your login account information.
- Your operator administrator can assist you in changing your details, if so desired and appropriate.
- If you change this email, it is your responsibility to confirm the email details for this submission is valid.
 - The system will use this email to deliver updates regarding this application's submission status.

First Name:

Last Name:

Email:

Update Details

FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

4. Add the location of release. This location should be as close as possible to the Point of Release.

Application Details

Add Location

Add Facility ID **Add Well API**

i Location required for submission. *i* Facility ID and/or Well API are optional (unless otherwise indicated).

Add Application Location

- Some forms need to be filed before you have a primary ID, apparently this is one of them.
- For all latitude and longitude coordinates, please use datum NAD83.

Latitude: Longitude:

District: County:

OCD Unit: U-S-T-R: Lot:

NS Footage: feet from the boundary

EW Footage: feet from the boundary

Add Location

Latitude and Longitude should be in Decimal Degrees and to 5 Decimal positions. If your location ends with a zero add a 1 to it. Example: 33.588210 = 33.5882101.

The Section, Township, and Range is automatically generated based upon the provided coordinates. The User only has to input the OCD unit letter. If you do not have the OCD unit letter, this information can be found on the OCD Public GIS website.

FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

If most release occur at a well site or facility (Tank Battery etc.) to add an API or Facility ID click on the applicable blue button.

Application Details

District	County	Location	
Artesia	Chaves	L-30-08S-29E Lot: 0 FNL 0 FEL 33.5883522,-104.0318222 NAD83	Delete

[Add Location](#)

[Add Facility ID](#) [Add Well API](#)

Submission Optional ID

- The type of ID (optionally allowed) in addition to the number of associations is determined by the application.
- This is not the primary ID for the application. The primary ID will be generated when this application is processed.

Well API

[30-005-60572] TWIN LAKES SAN ANDRES UNIT #005
[30-005-60571] TWIN LAKES SAN ANDRES UNIT #010
[30-005-60578] TWIN LAKES SAN ANDRES UNIT #012

[Add Well API](#)

Start by typing in the API # or the well name into the box. A drop down list will appear and you can select the well where the release occurred. This same type of function works with Facility ID numbers.

Facility ID

[fAPP2123468509] Carnival CTB
[fAPP2123468744] Parade Flare

Application Details


District	County	Location		Type	ID	
Artesia	Chaves	L-30-08S-29E Lot: 0 FNL 0 FEL 33.5883522,-104.0318222 NAD83	Delete	Well API	[30-005-60572]	Delete

[Add Location](#)

[Add Facility ID](#)

FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

General OCD Permitting functionality is to ask questions and the answer is provided typically by clicking on the  symbol next to the question. Any questions that are required to be answered prior to the submission of the application, are flagged by an Orange Box indicating that they are required.

 Required: Please provide an answer for all questions (above) in this group.

5. Answer the following questions by left clicking the button.

Site Name: Name of the release identified by the User, (May be different then Well name or Facility Name).

Date Of Discovery: The date in which the Operator discovered the release and sets the compliance timeline for notifications and remediation due dates.

Surface Owner: Surface owner at the point of release.

Location of Release Source

Please answer all the questions in this group.

- Site Name
- Date Release Discovered
- Surface Owner



 Required: Please provide an answer for all questions (above) in this group.

Type in or select the appropriate answer for your release. **It is important to note that if you press the enter key after typing in your answers they will not be saved.** You must enter the information and then click the blue Save button. If you accidentally entered a question you can back out of the question by click on the X in the top right of the question prompt. This functionality is for all questions in OCD Permitting.

Site Name

- Site Name?

Site Name:

max-length: 100

Save

FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

In the event that a mistake was made the User has the ability to clear the questions answer by left clicking on The **Red “Clear”** button to the right of the questions.

Location of Release Source
Please answer all the questions in this group.

• Site Name	TL San Andreas #6 Tank Overflow	Clear
• Date Release Discovered	10/25/2023	Clear
• Surface Owner	Private	Clear



Location of Release Source
Please answer all the questions in this group.

• Site Name		
• Date Release Discovered	10/25/2023	Clear
• Surface Owner	Private	Clear

Required: Please provide an answer for all questions (above) in this group.

This functionality works for all questions in the Notice of Release and C-141 Corrective Action Applications.



Location of Release Source
Please answer all the questions in this group.

• Site Name	TL San Andres #5 Tank Overflow	Clear
• Date Release Discovered	10/25/2023	Clear
• Surface Owner	Private	Clear

FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

6. Left click the Blue buttons to the right of the each of the questions to answer.

Incident Details

Please answer all the questions in this group.

- Incident Type
- Did this release result in a fire or is the result of a fire
- Did this release result in any injuries
- Has this release reached or does it have a reasonable probability of reaching a watercourse
- Has this release endangered or does it have a reasonable probability of endangering public health
- Has this release substantially damaged or will it substantially damage property or the environment
- Is this release of a volume that is or may with reasonable probability be detrimental to fresh water

Resulted In Any Injuries

- Did this release result in any injuries?

Resulted In Any Injuries:

Save

Question is looking for a "Yes" or "No" answer.
Check the box and press the Save button to record a "Yes" answer.
To record a "No", leave the box unchecked and press the Save button.

Incident Type: Select the category that best fits your release. In the event that your release contains two different types select the category that had the highest volume. Released 50 BBLs of Produce water and 10 BBL of oil release type would be Produce water.

Has this release reached or does it have a reasonable probability of reaching a watercourse.:

river, creek, arroyo, canyon, draw or wash or other channel having definite banks and bed with visible evidence of the occasional flow of water to include significant water courses and their next lower tributary as defined in 19.15.17 NMAC.

Has this release substantially damaged or will it substantially damage property or the environment:

Examples: destroyed Oil & Gas equipment, impacted Public Roads, Wildlife and Livestock, Impacted private property like homes, cars, animals etc.

Is this release of a volume that is or may with reasonable probability be detrimental to fresh water:

Example: A release of 5 gallons of an extremely hazardous chemical.

FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

7. The user must provide at a minimum one nature and volume of the release. During the NOR stage OCD understands that Operators may not have all of the information and the information is subject to change. Operators will have the opportunity to change and confirm the release volumes/types when submitting the follow up initial C-141 within 15 days.

The “Other Released Details” is only if your release does not fit one of the above material types and should not be used for unknown volumes. If the User selects the “Other Release Details” they will be required to provide additional details.

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

- Crude Oil Released (bbls) Details
- Produced Water Released (bbls) Details
- Is the concentration of dissolved chloride in the produced water >10,000 mg/l
- Condensate Released (bbls) Details
- Natural Gas Vented (Mcf) Details
- Natural Gas Flared (Mcf) Details
- Other Released Details

7

Required: Please provide release details for at least one of the material types (above) in this group.

- Are there **additional details** for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)

Fill out the Cause, source, released and recovered volume.

Released Volume = Total volume released including any volume that was recovered.

If the volume is unknown check the “Unknown Released Amount” Check box.

Produced Water

• Produced Water Released (bbls) Details?

Produced Water: Cause: Released: Unknown Released Amount

Source: Recovered: Released Amount

Material: Units:

Save

FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

Review the Automated information based upon the answers provided by the User. Verify that the correct incident severity Major/Minor is be applied to the incident.

Nature and Volume of Release (continued)

• Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
• Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
• Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (c) may with reasonable probability endanger public health.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Is this a gas only submission (i.e. only significant Mcf values reported)

If the Answer to this question is Yes, that means the user has reported a gas only release and that release should be reported through the C-129 application. The User will not be able to move forward with submitting an NOR application.

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

• Crude Oil Released (bbls) Details		
• Produced Water Released (bbls) Details	Cause: Human Error Tank (A16) Produced Water Released: 60 BBL 	Clear
	Recovered: 20 BBL Lost: 40 BBL.	
• Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Yes	Clear
• Condensate Released (bbls) Details		
• Natural Gas Vented (Mcf) Details		
• Natural Gas Flared (Mcf) Details		
• Other Released Details		
• Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)		

Nature and Volume of Release (continued)

• Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
• Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
• Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (c) may with reasonable probability endanger public health.

FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

8. Answer all the questions regarding the responsible party's initial response to a release.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

- The source of the release has been stopped
- The impacted area has been secured to protect human health and the environment
- Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices
- All free liquids and recoverable materials have been removed and managed appropriately
- If all the actions described above have not been undertaken, explain why

i Required.



The source of the release has been stopped:

Examples: Pump was turned off, valves were closed, etc.

The impacted area has been secured to protect human health and the environment:

Examples: Area has been fenced/cordoned off, Dry watch attendant on site etc.

All free liquids and recoverable materials have been removed and managed appropriately :

Example: Vac truck recovered all free standing liquids and disposed of them at the nearest SWD.

NOTE: allowing free standing liquids to soak into the ground with no attempt to recover the liquids is a violation pursuant to 19.15.29.8.C NMAC and is subject to civil penalties under 19.15.5 NMAC.

Initial Response		
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>		
• The source of the release has been stopped	True	Clear
• The impacted area has been secured to protect human health and the environment	True	Clear
• Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	Clear
• All free liquids and recoverable materials have been removed and managed appropriately	True	Clear
• If all the actions described above have not been undertaken, explain why	+	

FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

9. Read and understand each Acknowledgement by left clicking in the check box.

NOTE: A Submission of a NOR is not an initial C-141.

9

Acknowledgments

- I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
- I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
- I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
- I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment.
- I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
- I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

10. Review your NOR application for accuracy and completeness. This is the last chance before submitting the document to the OCD to make any corrections to this data. Operators will have the ability to modify these questions/response on the Initial C-141 submitted within 15 days from the date of discovery. Once you are ready to submit to the OCD click the blue Submit to OCD button. Clicking the Delete button will clear the entire application and remove it from your application queue.

10

Acknowledgments

- I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
- I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
- I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
- I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment.
- I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
- I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.



FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

Once the user has submitted the Notice of Release to the OCD. The user email which was identified in step 3a will receive an email from emnrd.oconline@emnrd.nm.gov indicated that the NOR application ID# has been accepted. Additionally the email will provide the User with the incident # (napp2330760406) that will be required for all future C-141 submissions or communication with the OCD.

This completes submitting a Notification of Release.

The Oil Conservation Division (OCD) has accepted the application, Application ID: 300360 (Testing Only)

 oconline, emnrd, EMNRD
To:  Smith, Cory, EMNRD

This is an email from the OCD Permitting development environment and has been sent during testing. Anything contained in this email is **NOT** an official decision/email of the OCD.

To whom it may concern (c/o Testy McTesterson for BLUE SKY NM, INC.),

The OCD has accepted the submitted *Notification of a release (NOR)* for incident ID (n#) nAPP2330760406, with the following conditions:

- **When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.**

Please reference nAPP2330760406, on all subsequent C-141 submissions and communications regarding the remediation of this release.
NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number.
If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

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

FIGURE 2

SUBMITTING AN INITIAL C-141(C-141-V-INITIAL)

Log into OCD Permitting and ensure that you are Logged into the Correct OGRID if you have access to multiples. It is very important that the correct OGRID is selected as the Responsible Party of the incident will be assigned to the reporting OGRID.

1. Left Click on the Submissions tab in the top right of the website.
2. Left Click on Releases and Select [C-141] Release Corrective Action (\$150 fee required)

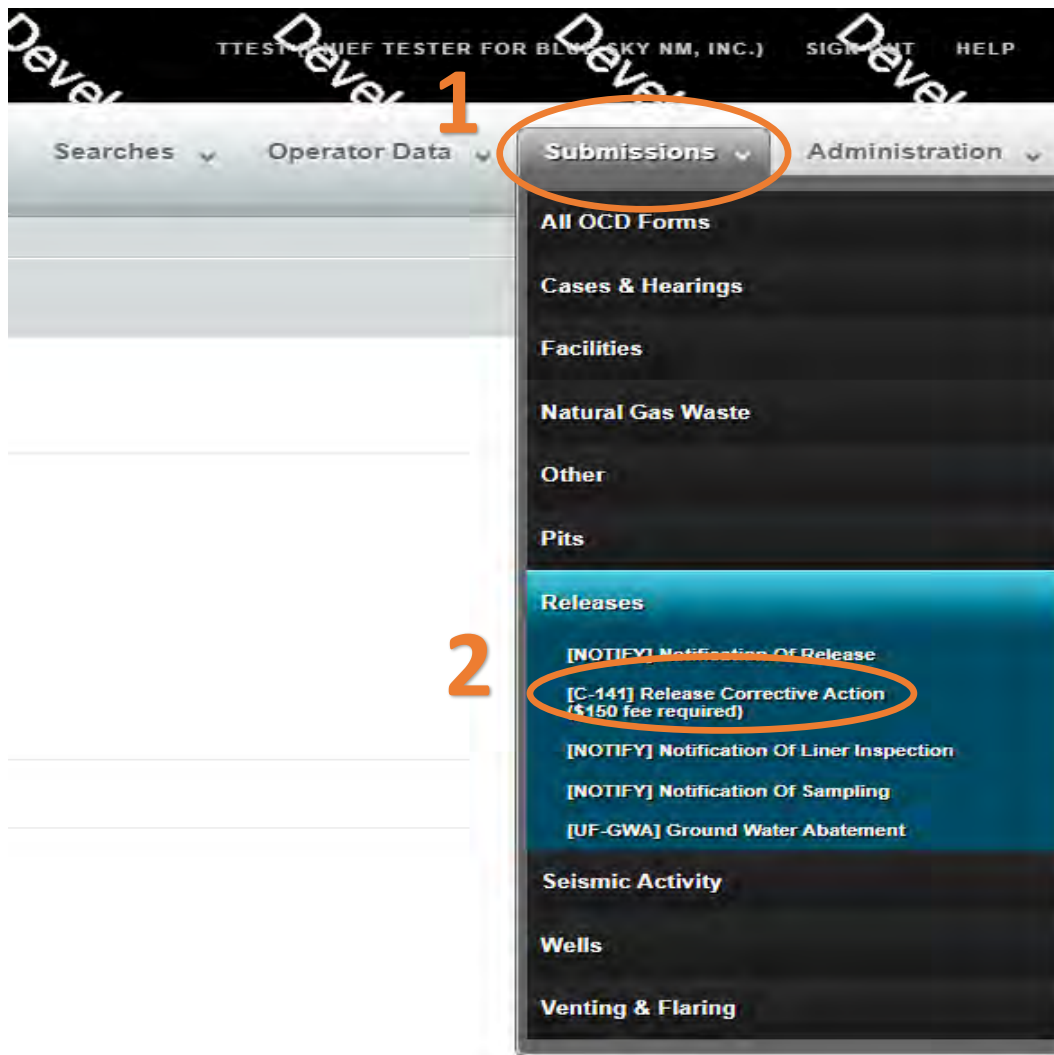


FIGURE 2

SUBMITTING AN INITIAL C-141(C-141-V-INITIAL)

On this Permitting page Users can review the status of all previous submitted C-141 Applications for their current OGRID . The user can also resume working on a previous draft version of the application by left clicking on the PO Number hyperlink. Applications types that are under OCD Review or have been Approved/ Rejected cannot be modified.

3. To create a new C-141 Application scroll down and left click on the “New C-141 Application” button.

The screenshot shows the 'OCD Permitting' interface. At the top, there is a breadcrumb trail: Home > Submissions > Releases > C-141. Below this is a 'Status:' dropdown menu currently set to 'All', with an orange arrow pointing to it from the right. The main content is a table with 9 columns: PO Number, Type, ID, Status, Fee Amount, Payment Type, Created, Submitter *, and Modified. The table contains 17 rows of application data. An orange arrow points to the second row's PO Number, 'OY3LL-230808-C-1410'. At the bottom left, a blue button labeled 'New C-141 Application' is circled in orange, with a large orange number '3' next to it.

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
B3TGL-221103-C-1410	C-141	nAPP2230057252	Under OCD Review	\$150.00	Credit Card	11/3/2022	Cory Smith	10/13/2023
OY3LL-230808-C-1410	C-141		Draft Application	\$150.00		6/8/2023	Cory Smith	6/8/2023
HBG3L-230708-C-1410	C-141	nAPP2318747496	Under OCD Review	\$150.00	Credit Card	7/6/2023	Cory Smith	7/6/2023
ER814-230713-C-1410	C-141		Draft Application	\$150.00		7/13/2023	Cory Smith	7/13/2023
D3C79-230713-C-1410	C-141	nAPP2318639832	Under OCD Review	\$150.00	Credit Card	7/13/2023	Cory Smith	7/13/2023
4AANL-230728-C-1410	C-141		Draft Application	\$150.00		7/26/2023	Cory Smith	7/26/2023
SJFLR-230728-C-1410	C-141		Draft Application	\$150.00		7/26/2023	Cory Smith	7/26/2023
KAXD9-230727-C-1410	C-141		Draft Application	\$150.00		7/27/2023	Cory Smith	7/27/2023
67UV4-230728-C-1410	C-141	nAPP2318747496	Draft Application	\$150.00		7/28/2023	Cory Smith	7/28/2023
B2Q4A-230728-C-1410	C-141	nAPP2320953386	Draft Application	\$150.00		7/28/2023	Cory Smith	7/28/2023
1XJ5S-230731-C-1410	C-141	nAPP2320953386	Draft Application	\$150.00		7/31/2023	Cory Smith	7/31/2023
83ALM-230803-C-1410	C-141	nAPP2320953386	Draft Application	\$150.00		8/3/2023	Cory Smith	8/3/2023
KGSLS-230810-C-1410	C-141	nAPP2320953386	Under OCD Review	\$150.00	Credit Card	8/10/2023	Cory Smith	8/10/2023
RHFAE-230810-C-1410	C-141	nAPP2320953386	Under OCD Review	\$150.00	Credit Card	8/10/2023	Cory Smith	8/23/2023
RHKBD-230825-C-1410	C-141	nAPP2323731968	Under OCD Review	\$150.00	Credit Card	8/25/2023	Cory Smith	8/25/2023

3

New C-141 Application

FIGURE 2

SUBMITTING AN INITIAL C-141(C-141-V-INITIAL)

3a. OCD Permitting general functions will display any errors in the orange ribbon band at the top of the screen and inline while working through the applications.

The Submissions Contact Application, Fee Payment section of the C-141 is automatically filled out based upon the Users default contact information. The contact e-mail used in this section is where any approvals/rejections will be sent too. In the even that you are submitting this on behalf of another member of your organization you may edit the contact information by clicking on the edit submissions contact details button.

Submit Non-Fee [NOTIFY] Notification Of Release (NOR)

Submission Contact, Application, Fee and Payment Details

First Name: Test Application Status: Draft Application
Last Name: Test • Please call (505) 476-3441 or email ocd.fees@state.nm.us for support.
Email: cory.smith@emnrd.nm.gov Fee Amount: \$0.00

Edit Submission Contact Details

3a

Submission Contact Details

- The initial contact details for submissions are prefilled on creation from your login account information.
- Your operator administrator can assist you in changing your details, if so desired and appropriate.
- If you change this email, it is your responsibility to confirm the email details for this submission is valid.
 - The system will use this email to deliver updates regarding this application's submission status.

First Name:

Last Name:

Email:

Update Details

FIGURE 2

SUBMITTING AN INITIAL C-141(C-141-V-INITIAL)

4. Add the incident ID # from your Notice of Release (NOR) E-mail or from your records. Alternatively if in your NOR application you gave your release a custom site name you can also search by typing in the name into the box.

Application Details

Add Incident ID

4

Incident ID required for submission.

Submission Required ID

- Most of our forms have a single primary ID. If we identify more than one then this message/layout will change.
- The type of ID required is determined by the application. Currently ID is used to determine the placement in imaging.
- If you do not have an ID that is being requested, you could try any of the following:
 - review the available forms, instructions and help pages to determine if an initial form was not filed yet;
 - review the structures for which your operator is responsible;
 - use our public search pages to determine the appropriate ID;
 - contact the department for further instructions.

Incident ID: TL Sa

[nAPP2330760406] TL San Andres #5 Tank Overflow

Add Incident ID

The Oil Conservation Division (OCD) has accepted the application, Application ID: 300360 (Testing Only)

ocdonline, emnrd, EMNRD
To: Smith, Cory, EMNRD

This is an email from the OCD Permitting development environment and has been sent during testing. Anything contained in this email is **NOT** an official decision/email of the OCD.

To whom it may concern (c/o Testy McTesterson for BLUE SKY NM, INC.),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2330760406, with the following conditions:

- When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.

Please reference nAPP2330760406, on all subsequent C-141 submissions and communications regarding the remediation of this release.

NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

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

FIGURE 2

SUBMITTING AN INITIAL C-141(C-141-V-INITIAL)

Once you have entered a valid incident number the applications will populate all of the C-141 questions. You may notice that the questions are identical to the Notice of Release and that some of the questions will already have answers in them. These answers are populated from the **APPROVED** NOR applications that was submitted in Figure 1. This functionality works for all C-141 submissions allowing the User to correct/validate data provided to the OCD with each submission. Pre-populated answers only works with approved data therefor any answers provided in an application that is Under OCD Review or that was Rejected will be required to be reentered for each submission until the questions are in an approved application.

Example: The User answered the Nature and Volume of Release in the Notice of Release applications (Figure 1). Now when submitting the Initial C-141 the User has the ability to change the answers for any corrections. Since the C-141 Initial is the confirmation of the Notice of Release the User also has to submit the volume Calculations that validates the information provided.

NOR Application

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

- Crude Oil Released (bbls) Details [+](#)
- Produced Water Released (bbls) Details [Cause: Human Error | Tank \(Any\) | Produced Water | Released: 60 BBL | Recovered: 20 BBL | Lost: 40 BBL](#) [Clear](#)
- Is the concentration of dissolved chloride in the produced water >10,000 mg/l [Yes](#) [Clear](#)
- Condensate Released (bbls) Details [+](#)
- Natural Gas Vented (Mcf) Details [+](#)
- Natural Gas Flared (Mcf) Details [+](#)
- Other Released Details [+](#)
- Are there **additional details** for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) [+](#)

C-141 Application

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

- Crude Oil Released (bbls) Details [+](#)
- Produced Water Released (bbls) Details [Cause: Human Error | Tank \(Any\) | Produced Water | Released: 60 BBL | Recovered: 20 BBL | Lost: 40 BBL](#) [Clear](#)
- Is the concentration of dissolved chloride in the produced water >10,000 mg/l [Yes](#) [Clear](#)
- Condensate Released (bbls) Details [+](#)
- Natural Gas Vented (Mcf) Details [+](#)
- Natural Gas Flared (Mcf) Details [+](#)
- Other Released Details [+](#)
- Are there **additional details** for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) [+](#)

The Nature and Volumes of Release require the following attachments:

- [Correction: Missing attachment tags \[Volume Calculation\]](#)

FIGURE 2

SUBMITTING AN INITIAL C-141(C-141-V-INITIAL)

5. Review the answers to all of the questions and make changes as needed. If there are no changes the User must provide the missing attachment for Volume Calculations.

5a. To add an attachment scroll to the top of the application left click the Blue Add attachment button.

5b. Select the type of attachment you are uploading from the drop down list. Left click the “Choose File” button to select the file from your computer to upload. Once you have selected the file you wish to upload save the upload by left clicking the Upload selected Files.

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

- Crude Oil Released (bbls) Details
- Produced Water Released (bbls) Details [Cause: Human Error | Tank \(Any\) | Produced Water | Released: 60 BBL | Recovered: 20 BBL | Lost: 40 BBL](#) [Clear](#)
- Is the concentration of dissolved chloride in the produced water >10,000 mg/l [Yes](#) [Clear](#)
- Condensate Released (bbls) Details
- Natural Gas Vented (Mcf) Details
- Natural Gas Flared (Mcf) Details
- Other Released Details
- Are there **additional details** for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)

The Nature and Volumes of Release require the following attachments:

Correction: Missing attachment tags [Volume Calculation]

Supporting Document

- If your document requires your signature, please upload the signed document.
- Unless otherwise specified, the uploaded documents must be PDF format and should be scanned at 300 DPI.
- Name your files appropriately (e.g. AppHearing_CaseNo.pdf, Cont_CaseNo.pdf, C-133_CoNo.pdf).
- A file name can't contain any of the following characters: < > : " / \ | ? * & % ' .

Method of submission

Upload Attachment(s): **5a**

Add Application Attachments

Attachment Type:

Attachment: TEST PDF.pdf

Upload Selected Files

FIGURE 2

SUBMITTING AN INITIAL C-141(C-141-V-INITIAL)

Users may upload multiple attachments to each application. At this current time, the User may also add multiple tags to a single file that may contain multiple attachments types. Attachment types/tags is an area that will be focused on in phase 2 of the C-141 update.

Method of submission

Upload Attachment(s):

Attachment Type (Description) Tag(s)	Original Uploaded File Name	
Volume Calculation Add Tag	TEST PDF.pdf (36.7 KB) Replace File	Delete
	Files: 1 Total Size: 36.7 KB	

[Add Application Attachments](#)

Supporting Document

- You are allowed to add as many attachment type tags as you would like to describe your file.
- We do caution against adding incorrect tags to get around any file attachment type requirements.
- Incorrect tags could be a reason a submission is rejected or otherwise denied.

Attachment Type:

- Select Document Type --
- Initial Response - Calculations or Specific Justification for the Volumes
- Site Characterization - Water Sources/Course Determination
- Site Characterization - Scaled Site Map
- Site Characterization - Field Data
- Site Characterization - Soil Contaminant Concentration
- Site Characterization - Water Depth Determination
- Site Characterization - Boring Logs
- Site Characterization - Photographs
- Site Characterization - Topographic/Aerial Maps
- Site Characterization - Laboratory Data
- Remediation Plan - Proposed Technique
- Remediation Plan - Scaled Site Map
- Remediation Plan - Estimated Volume
- Remediation Plan - Closure Criteria
- Remediation Plan - Proposed Schedule
- Remediation Closure Request - Scaled Site Map
- Remediation Closure Request - Photographs
- Remediation Closure Request - Lab Analyses
- Remediation Closure Request - Remediation Activities

FIGURE 2

SUBMITTING AN INITIAL C-141(C-141-V-INITIAL)

6. Once the volume calculations have been uploaded, the User will need to Sign/Certify that information. If the user changes any of the information in this section they will have to sign again.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

- The source of the release has been stopped [True](#) [Clear](#)
- The impacted area has been secured to protect human health and the environment [True](#) [Clear](#)
- Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices [True](#) [Clear](#)
- All free liquids and recoverable materials have been removed and managed appropriately [True](#) [Clear](#)
- If all the actions described above have not been undertaken, explain why [+](#)

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

- I hereby agree and sign off to the above statement [+](#)

6

Required.

△ I hereby agree and sign off to the above statement

[Name: Test Test](#) [Clear](#)

[Title: Chief Tester](#)

[Email: cory.smith@emnrd.nm.gov](#)

[Date: 11/08/2023](#)

FIGURE 2

SUBMITTING AN INITIAL C-141(C-141-V-INITIAL)

Site Characterization information is Optional when submitting an Initial C-141. User may choose to provide this information which will assist the OCD in prioritizing releases for processing. This information will become required when attempting to move any further past an initial C-141.

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

- What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)
- What method was used to determine the depth to ground water
- Did this release impact groundwater or surface water

What is the minimum distance, between the closest lateral extents of the release and the following surface areas:

- A continuously flowing watercourse or any other significant watercourse
- Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)
- An occupied permanent residence, school, hospital, institution, or church
- A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes
- Any other fresh water well or spring
- Incorporated municipal boundaries or a defined municipal fresh water well field
- A wetland
- A subsurface mine
- An (non-karst) unstable area
- Categorize the risk of this well / site being in a karst geology
- A 100-year floodplain
- Did the release impact areas not on an exploration, development, production, or storage site

FIGURE 2

SUBMITTING AN INITIAL C-141(C-141-V-INITIAL)

7. Lastly the User now must answer if they are requesting a Remediation plan approval with this submission. If the user answers no this submission will be classified as a Initial C-141. If the User selects yes and there is not an approved Initial C-141 on file this submission will ALSO count as a Initial C-141 + Remediation plan.

Please note that OCD does not approve partial applications in the event that the User submits an Initial + Remediation Plan and the application is rejected both C-141 will be rejected.

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

△ Requesting a remediation plan approval with this submission + 7

Required.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Make Payment **Delete**

8. Review your C-141 Initial application for accuracy and completeness. This is the last chance before submitting the document to the OCD to make any corrections to this data. Operators will have the ability to modify these questions/response on any subsequent C-141 submission. To submit the application to the OCD click the Make Payment button. You will be directed to a Third Party website to process payment.

Clicking the Delete button will clear the entire application and remove it from your application que.

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

• Requesting a remediation plan approval with this submission [No](#) [Clear](#)

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Make Payment **Delete**

FIGURE 2

SUBMITTING AN INITIAL C-141(C-141-V-INITIAL)

Once the user has submitted the C-141 Initial to the OCD. The user email which was identified in step 3a will receive an email from emnrd.ocdonline@emnrd.nm.gov that is the receipt and proof of submission to the OCD. The receipt provides an PO Number that can be searched on the OCD Action Status Page.

Thank you for your fee application payment! Your receipt is attached.

PO Number: 6CPC7-231107-C-1410

Payment Date: 11/8/2023

Payment Amount: \$150.00

Payment Type: Credit Card

Application Type: Application for administrative approval of a release notification and corrective action

Fee Amount: \$150.00

Application Status: Under OCD Review

OGRID: 300825

First Name: Test

Last Name: Test

Email: cory.smith@emnrd.nm.gov

At this state the Initial C-141 Application is Under OCD Review (Submitted) and the incident status will change to reflect the current status of the incident.

Status:

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
6CPC7-231107-C-1410	C-141	nAPP2330760406	Under OCD Review	\$150.00	Credit Card	11/7/2023	Test Test	11/8/2023

OCD Permitting

Home > Searches > Incidents > Incident Details

NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572

General Incident Information

Site Name: TL San Andres #5 Tank Overflow

Well: [\[30-005-60572\]](#) TWIN LAKES SAN ANDRES UNIT #005

Facility:

Operator: [\[300825\]](#) BLUE SKY NM, INC.

Status: Initial C-141 Received, Pending OCD Review

Type: Produced Water Release

District: Artesia

Severity: Major

Surface Owner: Private

County: Chaves (05)

FIGURE 2

SUBMITTING AN INITIAL C-141(C-141-V-INITIAL)

As the Application is Reviewed and Processed by the OCD the status of the application will change to Approved or Rejected and the Status of the Incident will also change. In the below example the applications was approved.

Status:

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
6CPC7-231107-C-1410	C-141	nAPP2330760406	Approved by the OCD	\$150.00	Credit Card	11/7/2023	Test Test	11/8/2023

OCD Permitting

Home > Searches > Incidents > Incident Details

NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572


General Incident Information

Site Name: TL San Andres #5 Tank Overflow
Well: [\[30-005-60572\]](#) TWIN LAKES SAN ANDRES UNIT #005
Facility:
Operator: [\[300825\]](#) BLUE SKY NM, INC.
Status: Initial C-141 Approved, Pending submission of Site Characterization / Remediation Plan OR Remediation Closure Report from the operator
Type: Produced Water Release
District: Artesia

Severity: Major
Surface Owner: Private
County: Chaves (05)

Additional on approval/rejection of an application the user email who was identified in step 3a will received an email with the Incident# and any conditions of approval / reasons for rejection. This completes the Initial C-141 process.

To whom it may concern (c/o Test Test for BLUE SKY NM, INC.),

The  has approved the submitted *Application for administrative approval of a release notification and corrective action (C-141)*, for incident ID (n#) nAPP2330760406, with the following conditions:

- None

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Cory Smith
Environmental Projects Supervisor
505-419-2687
cory.smith@emnrd.nm.gov

This contact information is from the OCD Reviewer who reviewed the application.

FIGURE 3

SUBMITTING A SITE CHARACTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

Site Characterizations and Remediation plans (Remediation Plans) are required to be submitted together. This section of the C-141 is used to characterize the site by determining depth to water, distances to significant water course, flood plains, unstable ground etc. In addition to the Characterization the user will also provide the OCD with the Remediation plan that was executed or the proposed remediation plan that include times lines.

1. Left Click on the Submissions tab in the top right of the website.
2. Left Click on Releases and Select [C-141] Release Corrective Action (\$150 fee required).

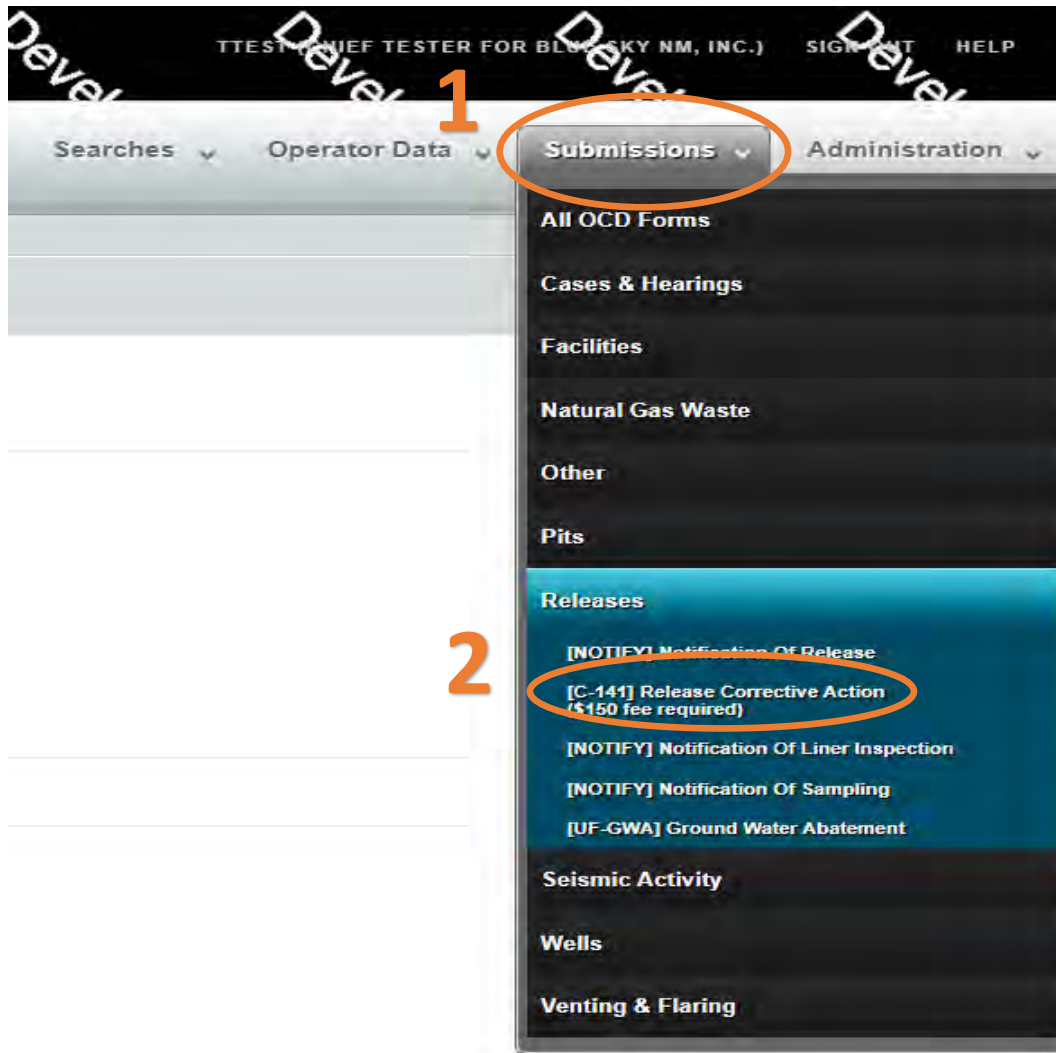


FIGURE 3

SUBMITTING A SITE CHARACTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

On this Permitting page Users can review the status of all previous submitted C-141 Applications for their current OGRID . The user can also resume working on a previous draft version of the application by left clicking on the PO Number hyperlink. Applications types that are under OCD Review or have been Approved/ Rejected cannot be modified.

3. To create a new C-141 Application scroll down and left click on the New C-141 Application button.

The screenshot shows the 'OCD Permitting' web interface. At the top, there is a breadcrumb trail: Home > Submissions > Releases > C-141. Below this is a 'Status:' dropdown menu set to 'All', with an orange arrow pointing to it from the right. The main content is a table with 9 columns: PO Number, Type, ID, Status, Fee Amount, Payment Type, Created, Submitter *, and Modified. The table lists 16 C-141 applications. An orange arrow points to the second row, which is a 'Draft Application' with PO Number [OY3LL-230808-C-1410](#). At the bottom left, a blue button labeled 'New C-141 Application' is circled in orange, with a large orange number '3' next to it.

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
B3TGL-221103-C-1410	C-141	nAPP2230057252	Under OCD Review	\$150.00	Credit Card	11/3/2022	Cory Smith	10/13/2023
OY3LL-230808-C-1410	C-141		Draft Application	\$150.00		6/8/2023	Cory Smith	6/8/2023
HBG3L-230708-C-1410	C-141	nAPP2318747496	Under OCD Review	\$150.00	Credit Card	7/6/2023	Cory Smith	7/6/2023
ER814-230713-C-1410	C-141		Draft Application	\$150.00		7/13/2023	Cory Smith	7/13/2023
D3C79-230713-C-1410	C-141	nAPP2318639832	Under OCD Review	\$150.00	Credit Card	7/13/2023	Cory Smith	7/13/2023
4AANL-230728-C-1410	C-141		Draft Application	\$150.00		7/26/2023	Cory Smith	7/26/2023
SJFLR-230728-C-1410	C-141		Draft Application	\$150.00		7/26/2023	Cory Smith	7/26/2023
KAXD9-230727-C-1410	C-141		Draft Application	\$150.00		7/27/2023	Cory Smith	7/27/2023
67UV4-230728-C-1410	C-141	nAPP2318747496	Draft Application	\$150.00		7/28/2023	Cory Smith	7/28/2023
B2Q4A-230728-C-1410	C-141	nAPP2320953386	Draft Application	\$150.00		7/28/2023	Cory Smith	7/28/2023
1XJ5S-230731-C-1410	C-141	nAPP2320953386	Draft Application	\$150.00		7/31/2023	Cory Smith	7/31/2023
83ALM-230803-C-1410	C-141	nAPP2320953386	Draft Application	\$150.00		8/3/2023	Cory Smith	8/3/2023
KGSLS-230810-C-1410	C-141	nAPP2320953386	Under OCD Review	\$150.00	Credit Card	8/10/2023	Cory Smith	8/10/2023
RHFAE-230810-C-1410	C-141	nAPP2320953386	Under OCD Review	\$150.00	Credit Card	8/10/2023	Cory Smith	8/23/2023
RHKBD-230825-C-1410	C-141	nAPP2323731968	Under OCD Review	\$150.00	Credit Card	8/25/2023	Cory Smith	8/25/2023

3

New C-141 Application

FIGURE 3

SUBMITTING A SITE CHARACTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

3a. OCD Permitting general functions will display any errors in the orange ribbon band at the top of your screen and inline while working through the applications.

The Submissions Contact Application, Fee Payment section of the C-141 is automatically filled out based upon the User's default contact information. The contact E-mail used in this section is where any approvals/rejections will be sent too. In the even that you are submitting this on behalf of another member of your organization you may edit the contact information by clicking on the edit submissions contact details button

Submit Non-Fee [NOTIFY] Notification Of Release (NOR)

Submission Contact, Application, Fee and Payment Details

First Name: Test Application Status: Draft Application
Last Name: Test • Please call (505) 476-3441 or email ocd.fees@state.nm.us for support.
Email: cory.smith@emnrd.nm.gov Fee Amount: \$0.00

Edit Submission Contact Details **3a**

Submission Contact Details

- The initial contact details for submissions are prefilled on creation from your login account information.
- Your operator administrator can assist you in changing your details, if so desired and appropriate.
- If you change this email, it is your responsibility to confirm the email details for this submission is valid.
 - The system will use this email to deliver updates regarding this application's submission status.

First Name:

Last Name:

Email:

Update Details

FIGURE 3

SUBMITTING A SITE CHARACTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

4. Add the incident ID # from your Notice of Release (NOR) e-mail, C-141 Initial or from your records. Alternatively if in your NOR application you gave your release a custom site name you can also search by typing in the name into the box.

The figure illustrates the process of adding an incident ID to an application. It is divided into two main sections: 'Application Details' and 'Submission Required ID'.

Application Details: A blue button labeled 'Add Incident ID' is circled in orange. A large orange number '4' is positioned to its right. Below the button, a yellow banner contains the text 'Incident ID required for submission.'

Submission Required ID: This section lists instructions for finding an incident ID:

- Most of our forms have a single primary ID. If we identify more than one then this message/layout will change.
- The type of ID required is determined by the application. Currently ID is used to determine the placement in imaging.
- If you do not have an ID that is being requested, you could try any of the following:
 - review the available forms, instructions and help pages to determine if an initial form was not filed yet;
 - review the structures for which your operator is responsible;
 - use our public search pages to determine the appropriate ID;
 - contact the department for further instructions.

Below these instructions, a form field for 'Incident ID' is shown. The text 'TL Sa' is entered in the top part of the field, and '[nAPP2330760406] TL San Andres #5 Tank Overflow' is entered in the bottom part. An orange arrow points from the 'Add Incident ID' button in the 'Application Details' section to this field.

Below the form field, a blue button labeled 'Add Incident ID' is shown. An orange arrow points from this button to the 'Incident ID' field.

At the bottom, a grey banner contains the text: 'The Oil Conservation Division (OCD) has accepted the application, Application ID: 300360 (Testing Only)'. Below this banner, an email header is shown: 'ocdonline, emnrd, EMNRD To: Smith, Cory, EMNRD'. The body of the email contains the following text:

This is an email from the OCD Permitting development environment and has been sent during testing. Anything contained in this email is **NOT** an official decision/email of the OCD.

To whom it may concern (c/o Testy McTesterson for BLUE SKY NM, INC.),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2330760406, with the following conditions:

- When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.

Please reference nAPP2330760406, on all subsequent C-141 submissions and communications regarding the remediation of this release.

NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

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

An orange circle highlights the incident ID 'nAPP2330760406' in the email body, with an orange arrow pointing from this circle to the 'Incident ID' field in the form above.

FIGURE 3

SUBMITTING A SITE CHARACTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

Once you have entered a valid incident number the applications will populate all of the C-141 questions. You may notice that the questions are identical to the Initial C-141 and that some of the questions will already have answers in them. These answers are populated from the **APPROVED** NOR/C-141 applications that were submitted in Figure 1/2. This functionality works for all C-141 submissions allowing the User to correct/validate data provided to the OCD with each submission. Pre-populated answers only works with approved data therefor any answers provided in an application that is Under OCD Review or that was Rejected will be required to be reentered for each submission until the questions are in an approved application.

Example: The User answered the Requesting Remediation Plan Approval with this submission in the C-141 Initial (Figure 1) as “No”. This answer signaled to OCD Permitting that the C-141 Application was an Initial C-141. Now that the User wants to submit a Remediation plan for approval they need to change the answer to this question to “Yes” .

C-141 Initial Application

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

- Requesting a remediation plan approval with this submission [No](#) [Clear](#)

C-141 Remediation Plan Application: By answering “Yes” additional Remediation Plan questions pop up.

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

- Requesting a remediation plan approval with this submission [Yes](#) [Clear](#)

Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.

- Have the lateral and vertical extents of contamination been fully delineated [+](#)
- Was this release entirely contained within a lined containment area [+](#)

Required: Please provide an answer for all questions for the preceding group, Site Characterization (above).

FIGURE 3

SUBMITTING A SITE CHARECTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

5. Once the User selects Yes to Requesting a Remediation Plan approval the Site Characterization section is no longer optional and is now required to be answered. User will be familiar with these questions as they are directly from the historic C-141 form with one change. Instead of Yes/No Question OCD is introducing additional ranges to all of the questions. These changes are designed to allow the OCD to prioritize incidents.

User will need to make sure that their attached maps/topo's scales allow the OCD to verify the data.

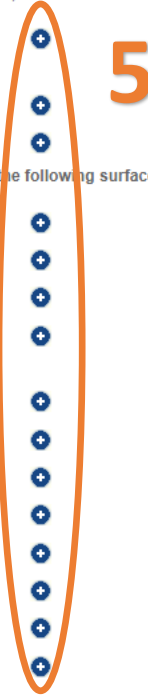
Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

- What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)
- What method was used to determine the depth to ground water
- Did this release impact groundwater or surface water

What is the minimum distance, between the closest lateral extents of the release and the following surface areas:

- A continuously flowing watercourse or any other significant watercourse
- Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)
- An occupied permanent residence, school, hospital, institution, or church
- A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes
- Any other fresh water well or spring
- Incorporated municipal boundaries or a defined municipal fresh water well field
- A wetland
- A subsurface mine
- An (non-karst) unstable area
- Categorize the risk of this well / site being in a karst geology
- A 100-year floodplain
- Did the release impact areas not on an exploration, development, production, or storage site



NOTE: Selecting anything Less than 200' has the same effect on the closure standard per the rule.

Distance to Watercourse

- A continuously flowing watercourse or any other significant watercourse?

Distance to Watercourse:

*** Select Value To Change ***

Save

*** Select Value To Change ***

- Zero feet, overlying, or within area
- Between 1 and 100 (ft.)
- Between 100 and 200 (ft.)
- Between 200 and 300 (ft.)
- Between 300 and 500 (ft.)
- Between 500 and 1000 (ft.)
- Between 1000 (ft.) and ½ (mi.)
- Between ½ and 1 (mi.)
- Between 1 and 5 (mi.)
- Greater than 5 (mi.)

FIGURE 3

SUBMITTING A SITE CHARACTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

6. Answer the Question “Looking for Remediation Plan Approval with this submission” as “Yes” this will open all open additional questions that are required to be answer prior to submission of a Remediation plan. The Remediation Plan section is designed to allow multiple type’s of Remediation Plans from traditional dig & haul, Liner inspections and Soil Vapor Extraction etc. Please keep in mind that Responsible party’s ar required to Remediate using a Division **APPROVED** Plan. Any remediation done without an Approved plan may require additional remediation.

7. Answer the Required Questions.

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

△ Requesting a remediation plan approval with this submission Yes 6 [Clear](#) [Reset](#)

Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.

- Have the lateral and vertical extents of contamination been fully delineated

Required: Please provide an answer for all questions for the preceding group, Site Characterization (above).

- Was this release entirely contained within a lined containment area

Required.

Soil Contamination Sampling: (Provide the highest observable value for each, in milligram per kilograms.)

- Chloride (EPA 300.0 or SM4500 Cl B)
- TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)
- GRO+DRO (EPA SW-846 Method 8015M)
- BTEX (EPA SW-846 Method 8021B or 8260B)
- Benzene (EPA SW-846 Method 8021B or 8260B)

7

Required: Please provide an answer for all questions (above) in this group.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

- On what estimated date will the remediation commence
- On what date will (or did) the final sampling or liner inspection occur
- On what date will (or was) the remediation complete(d)
- What is the estimated surface area (in square feet) that will be reclaimed
- What is the estimated volume (in cubic yards) that will be reclaimed
- What is the estimated surface area (in square feet) that will be remediated
- What is the estimated volume (in cubic yards) that will be remediated

Required: Please provide an answer for all questions (above) in this group.

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

FIGURE 3

SUBMITTING A SITE CHARACTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

7. Continued.

Δ Have the lateral and vertical extents of contamination been fully delineated [No](#)

All submitted remediation plans must be fully delineated except Dig & Haul which will be delineated at remediation. Answering “No” to this question will prevent Users from moving forward in Deferral situations.

Δ Was this release entirely contained within a lined containment area [No](#)

If your release was entirely contained within a Lined Containment answer this question “Yes” answering “No” to this question prompts remediation questions that are not applicable to Liner remediations.

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

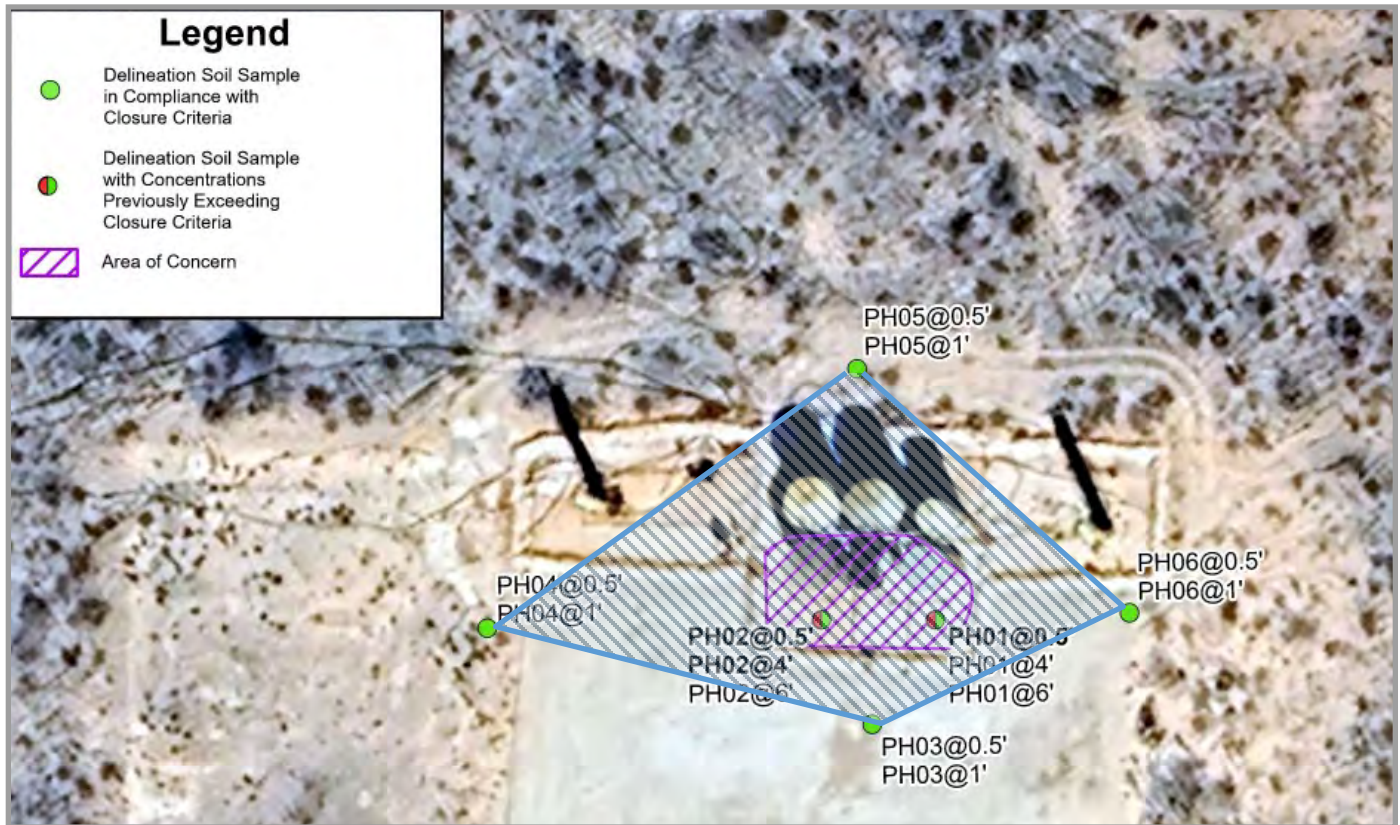
Δ	Chloride	(EPA 300.0 or SM4500 Cl B)	12688
Δ	TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	1370
Δ	GRO+DRO	(EPA SW-846 Method 8015M)	258
Δ	BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Δ	Benzene	(EPA SW-846 Method 8021B or 8260B)	0

If Characterization has already been done please identify the Highest observed values the most common constituents from Table I. In the Event that the release was not sample for one of the above input a ZERO is an acceptable answer. If Site Characterization wasn't not done until remediation (Dig & Haul) enter the highest observed data from confirmation samples is also acceptable.

FIGURE 3

SUBMITTING A SITE CHARACTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

7. Continued.



- What is the estimated surface area (in square feet) that will be remediated +
- What is the estimated volume (in cubic yards) that will be remediated +

Remediated = Areas/volume that do not meet the Table I Standards represented by the purple shaded area above.

- What is the estimated surface area (in square feet) that will be reclaimed +
- What is the estimated volume (in cubic yards) that will be reclaimed +

Reclaimed = Areas/Volume from the nearest delineation points to the Area of Concern that meet the reclamation standards of 19.15.13 NMAC. This should include areas that are still reasonably needed for production operations/subsequent drilling operations represented by the light blue shaded area above.

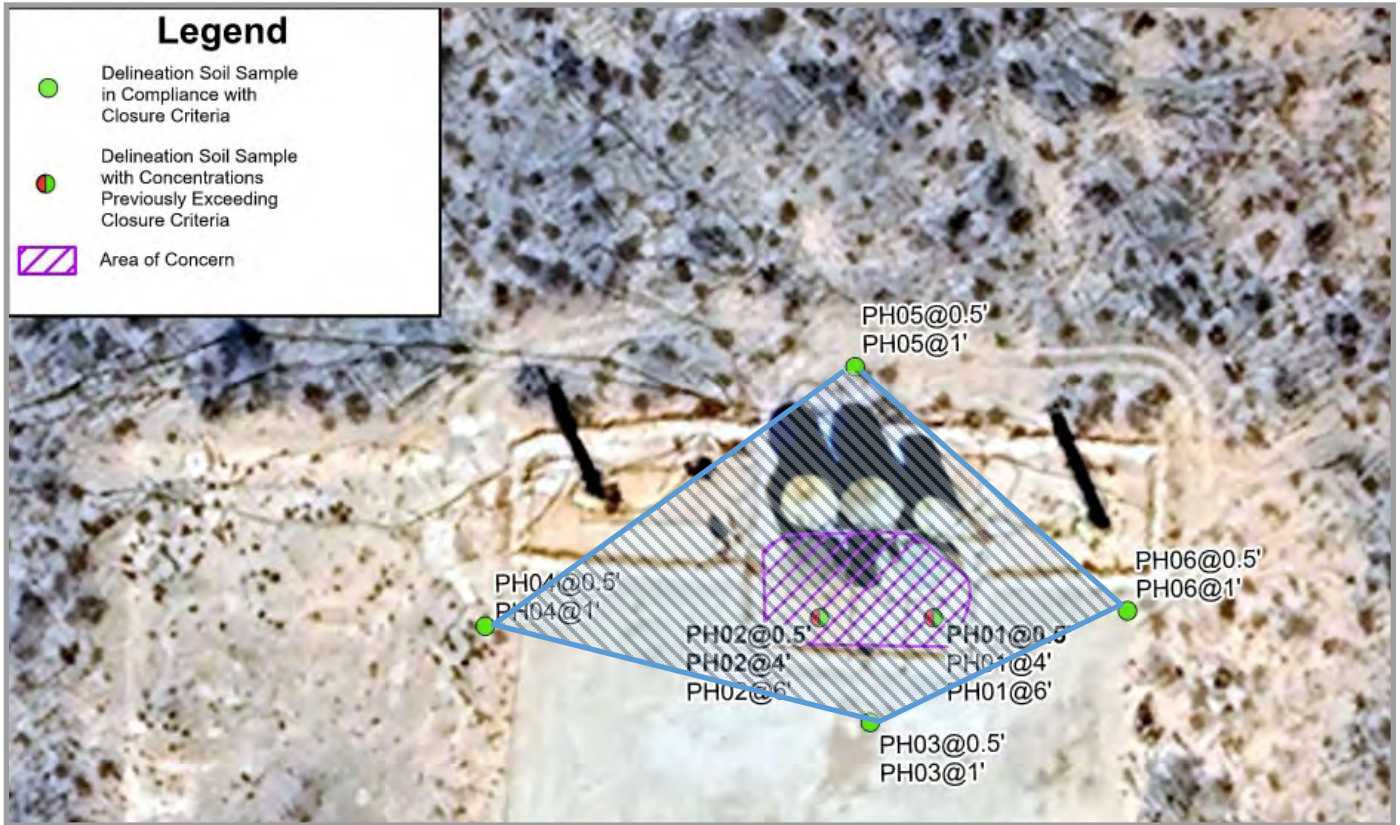
The Responsible Party **will not** have to reclaim those areas **until** they are no longer reasonably needed however these areas **must be fully** delineated.

The OCD highly recommends vertically delineating the upper four feet of the release in areas where depth is greater than 50' and does not include any criteria that would require the release to be treated as depth to groundwater is less than 50' (i.e. located in high karst, etc.) to the most stringent closure criteria in order to correctly calculate the area and volume of areas that will be reclaimed when they are no longer reasonably needed for production.

FIGURE 3

SUBMITTING A SITE CHARECTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

7. Continued.



- What is the estimated surface area (in square feet) that will be remediated +
- What is the estimated volume (in cubic yards) that will be remediated +

- What is the estimated surface area (in square feet) that will be reclaimed +
- What is the estimated volume (in cubic yards) that will be reclaimed +

Example of Completed Questions

Δ	On what estimated date will the remediation commence	11/15/2023
Δ	On what date will (or did) the final sampling or liner inspection occur	11/17/2023
Δ	On what date will (or was) the remediation complete(d)	11/20/2023
Δ	What is the estimated surface area (in square feet) that will be reclaimed	10642
Δ	What is the estimated volume (in cubic yards) that will be reclaimed	1576.6
Δ	What is the estimated surface area (in square feet) that will be remediated	1650
Δ	What is the estimated volume (in cubic yards) that will be remediated	367

FIGURE 3

SUBMITTING A SITE CHARECTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

8. Remediation Plan (continued) This allows the User to designate how the responsible party will remediate the release. The User is only required to select at a minimum one remediation approach, but if multiple apply please answer all applicable questions. Additionally this section is designed to be a high level overview of the requested remediation approach, the User will still need to include all applicable documentation for the proposed remediation technique.

*Note The example remediation techniques are examples only and do not indicate OCD approval to implement the remediation technique. Responsible party's must have a Division approved remediation plan any remediation done without an approved plan may require additional remediation.


Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

- (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)
- (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)
- (In Situ) Soil Vapor Extraction
- (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)
- (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)
- (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)
- Ground Water Abatement pursuant to 19.15.30 NMAC
- OTHER (Non-listed remedial process)



i Correction: At least one of the categorizations listed above should describe your remediation.

FIGURE 3

SUBMITTING A SITE CHARACTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

8. Remediation Plan (continued)

Example Dig and Haul

Δ (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Δ Which OCD approved facility will be used for off-site disposal	R360 Artesia LLC LANDFARM [FEEM0112340644]
• OR which OCD approved well (API) will be used for off-site disposal	+
• OR is the off-site disposal site, to be used, out-of-state	+
• OR is the off-site disposal site, to be used, an NMED facility	+

User will be required to select the Facility (R360 Above) were the impacted soil will be sent to.

Example Hydrovac to SWD

Δ (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
• Which OCD approved facility will be used for off-site disposal	+
Δ OR which OCD approved well (API) will be used for off-site disposal	30-015-45034 RUSTLER BREAKS SWD #006
• OR is the off-site disposal site, to be used, out-of-state	+
• OR is the off-site disposal site, to be used, an NMED facility	+

Users who intend to dispose of PW at an Salt Water Disposal or other type of Well will use this section.

Example Out of State Disposal

Δ (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
• Which OCD approved facility will be used for off-site disposal	+
• OR which OCD approved well (API) will be used for off-site disposal	+
Δ OR is the off-site disposal site, to be used, out-of-state	Yes
Δ In which state is the disposal taking place	Texas
Δ What is the name of the out-of-state facility	ACME Land Farm
• OR is the off-site disposal site, to be used, an NMED facility	+

Out of State disposal must be in compliance with any applicable Rules/Regulations of the receiving State.

FIGURE 3

SUBMITTING A SITE CHARECTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

8. Remediation Plan (continued)

Example Onsite Land Farm

Δ	(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Yes
•	Which OCD approved facility will be used for on-site disposal	+
•	OR which OCD approved well (API) will be used for on-site disposal	+

Onsite Land farms require approval of an additional permit through the OCD pursuant to 19.15.36 NMAC

9. When requestion Remediation Plan Approval the User must submit 1 or more attachments that include the below attachment tags. User must review their attached document to ensure that all of the items being requested are in their attached file. Attachments/Tags will be likely change in future development. To add an attachment scroll to the top of the application left click the Blue Add Attachment Button. Select the type of attachment you are uploading from the drop down list. Left click the Choose file button to select the file from your computer to upload. Once you have selected the file you wish to upload save the upload by left clicking the Upload selected Files. Repeat this process for multiple Attachments.

The site characterization and remediation plan require the following attachments.

Correction: Missing attachment tags [{ Site Characterization: Water Sources, Scaled Site Map, Field Data, Soil Contaminant, Water Depth, Boring Logs, Photographs, Topo Aerial Maps, Lab Data. } { Remediation Plan: Proposed Technique, Scaled Site Map, Estimated Volume, Closure Criteria, Proposed Schedule. }]

Supporting Document

- If your document requires your signature, please upload the signed document.
- Unless otherwise specified, the uploaded documents must be PDF format and should be scanned at 300 DPI.
- Name your files appropriately (e.g. AppHearing_CaseNo.pdf, Cont_CaseNo.pdf, C-133_CoNo.pdf).
- A file name can't contain any of the following characters: < > : " / | ? * & % '

Method of submission

Upload Attachment(s): **9**

↑ Add Application Attachments

Attachment Type:

Attachment: **→ Choose File** TEST PDF.pdf

↓ Upload Selected Files

FIGURE 3

SUBMITTING A SITE CHARECTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

9. Remediation Plan Attachments (continued)

At this current time User may also add multiple tags to a single file that may contain multiple attachments types. To add multiple tags Left click the Add Tag button next to the Attached File. Select the Tag type from the Drop down and Left click Add Tag to file. Repeat this step to add multiple tags.

Upload Attachment(s):

Attachment Type (Description) Tag(s)	Original Uploaded File Name	
✕ Water Sources, ✕ Scaled Site Map Add Tag	TEST PDF.pdf (36.7 KB) Replace File	Delete
Files: 1 Total Size: 36.7 KB		

Supporting Document ✕

- You are allowed to add as many attachment type tags as you would like to describe your file.
- We do caution against adding incorrect tags to get around any file attachment type requirements.
- Incorrect tags could be a reason a submission is rejected or otherwise denied.

Attachment Type: -- Select Document Type --

-- Select Document Type --

Initial Response - Calculations or Specific Justification for the Volumes

Site Characterization - Water Sources/Course Determination

Site Characterization - Scaled Site Map

Site Characterization - Field Data

Site Characterization - Soil Contaminant Concentration

Site Characterization - Water Depth Determination

Site Characterization - Boring Logs

Site Characterization - Photographs

Site Characterization - Topographic/Aerial Maps

Site Characterization - Laboratory Data

Remediation Plan - Proposed Technique

Remediation Plan - Scaled Site Map

Remediation Plan - Estimated Volume

Remediation Plan - Closure Criteria

Remediation Plan - Proposed Schedule

Remediation Closure Request - Scaled Site Map

Remediation Closure Request - Photographs

Remediation Closure Request - Lab Analyses

Remediation Closure Request - Remediation Activities

[Add Tag to File](#)

Upload Attachment(s):

Attachment Type (Description) Tag(s)	Original Uploaded File Name	
✕ Water Sources, ✕ Scaled Site Map, ✕ Field Data, ✕ Soil Contaminant, ✕ Water Depth, ✕ Boring Logs, ✕ Photographs, ✕ Topo Aerial Maps, ✕ Lab Data, ✕ Proposed Technique, ✕ Scaled Site Map, ✕ Estimated Volume, ✕ Closure Criteria, ✕ Proposed Schedule Add Tag	TEST PDF.pdf (36.7 KB) Replace File	Delete
Files: 1 Total Size: 36.7 KB		

FIGURE 3

SUBMITTING A SITE CHARACTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

10. Once all of the questions have been Answered the User must Certify and Digital Sign the application.

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

I hereby agree and sign off to the above statement

 Required.


 10


11. The User must answer if they are requesting a Deferral with this submission. If answered no this submission will be classified as a Remediation Plan. If Answered Yes the submission will be identified as a Deferral Request. This submission will also count as an Initial C-141 + Remediation Plan + Deferral if there are no previous approved dates on file.

Deferral Requests Only

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation

Requesting a deferral of the remediation closure due date with the approval of this submission

 Required.

 11

11a. The User must complete the following questions for Deferral Request. Sites that have not been delineated pursuant to 19.15.11 NMAC cannot be granted a deferral. Contamination in areas that don't require a major facility deconstruction, or pose an imminent risk to human health or the Environment cannot be deferred.

Major Facility Deconstruction: Typically involves concrete poured pads, structures, engineered designed facilities that include automation/electrical lines, sprayed in liners, etc. OCD will review each deferral request on a case by case basis.


Deferral Requests Only

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.

Requesting a deferral of the remediation closure due date with the approval of this submission [Yes](#) [Clear](#) [Reset](#)

Have the lateral and vertical extents of contamination been fully delineated Yes

Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction

 Correction: Not allowed to grant deferrals if remediation will not cause major deconstruction.


What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted

What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted


Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.

Enter the facility ID (##) on which this deferral should be granted

Enter the well API (30-) on which this deferral should be granted

 Correction: Must declare at least one facility or well ID for which the deferral is dependant upon.

Contamination does not cause an imminent risk to human health, the environment, or groundwater

 Correction: Not allowed to grant deferrals if the contamination is the cause of any imminent risk.

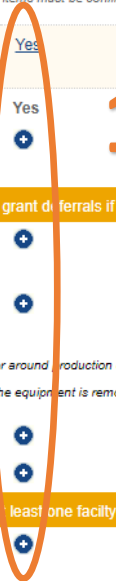


 11a


FIGURE 3

SUBMITTING A SITE CHARACTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

11a *Continued* User will need to Identify which facility/API# that they are requesting the Deferral should be granted on. If your release is on a one Well pad the enter the API#. If your release is on a multi-well pad then include at least 1 API# from the pad and/or the Facility ID# if applicable. These API#/Facilities may be different then the main association as identified in the NOR application.

• Enter the facility ID (##) on which this deferral should be granted 

• Enter the well API (30-) on which this deferral should be granted 


 Correction: Must declare at least one facility or well ID for which the deferral is dependant upon.


12. The User now must answer if they are requesting a Remediation Closure approval with this submission. If the user answer no this submission will be classified as a Remediation Plan. If the User selects yes and there is not an approved Initial C-141 on file this submission will ALSO count as a Initial C-141 + Remediation plan + Remediation Closure Request (Figure 5).

Please note that OCD does not approve partial applications in the event that the User submits an Initial + Remediation Plan and the application is rejected both C-141 will be rejected.

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

• Requesting a remediation closure approval with this submission  **12**

 Required.

13. Review your C-141 application for accuracy and completeness. This is the last chance before submitting the document to the OCD to make any corrections to this data. Operators will have the ability to modify these questions/response on any subsequent C-141 submission. To submit the application to the OCD click the Make Payment button. You will be directed to a Third Party website to process payment.

Clicking the Delete button will clear the entire application and remove it from your application queue.

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

• Requesting a remediation closure approval with this submission [No](#) [Clear](#)

13

[Make Payment](#) [Delete](#)

FIGURE 3

SUBMITTING A SITE CHARECTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

Once the user has submitted the C-141 Remediation Plan to the OCD. The User email which was identified in step 3a will receive an email from emnrd.ocdonline@emnrd.nm.gov that is the receipt and proof of submission to the OCD. The receipt provides a PO Number that can be searched on the OCD Action Status page.

PO Number:	KITLT-231108-C-1410
Payment Date:	11/13/2023
Payment Amount:	\$150.00
Payment Type:	Credit Card
Application Type:	Application for administrative approval of a release notification and corrective action
Fee Amount:	\$150.00
Application Status:	Under OCD Review
OGRID:	300825
First Name:	Test
Last Name:	Test
Email:	cory.smith@emnrd.nm.gov

At this state the Remediation Plan C-141 Application is Under OCD Review (Submitted) and the incident status will change to reflect the current status of the incident.

OCD Permitting

Home > Submissions > Releases > C-141

Status:

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
KITLT-231108-C-1410	C-141	nAPP2330760406	Under OCD Review	\$150.00	Credit Card	11/8/2023	Test Test	11/13/2023

NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572

General Incident Information

Site Name: TL San Andres #5 Tank Overflow
Well: [\[30-005-60572\]](#) TWIN LAKES SAN ANDRES UNIT #005
Facility:
Operator: [\[300825\]](#) BLUE SKY NM, INC.
Status: Remediation Plan Received, Pending OCD Review
Type: Produced Water Release
District: Artesia

Severity: Major
Surface Owner: Private
County: Chaves (05)

FIGURE 3

SUBMITTING A SITE CHARACTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

Example of Rejected Application.

The Oil Conservation Division (OCD) has rejected the application, Application ID: 300396 (Testing Only)

oedonline, emnrd, EMNRD
To: Smith, Cory, EMNRD
Mon 11/13/2023 2:38 PM

This is an email from the OCD Permitting development environment and has been sent during testing. Anything contained in this email is **NOT** an official decision/email of the OCD.

To whom it may concern (c/o Test Test for BLUE SKY NM, INC.),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action (C-141)*, for incident ID (#) nAPP2330760406, for the following reasons:

- The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater. This is where Conditions of Approval or Reason of Rejection would be stated if there were any.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 300396.
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.

At this state the Remediation Plan C-141 Application is has been Processed (Approved or Rejected) and the incident status will change to reflect the current status of the incident.

OCD Permitting

Home > Submissions > Releases > C-141

Status: Rejected by the OCD

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
KITLT-231108-C-1410	C-141	nAPP2330760406	Rejected by the OCD	\$150.00	Credit Card	11/8/2023	Test Test	11/13/2023

Remember rejected applications do not show a rejected status but will display the furthest along APPROVED application. In this case the last accept application was the Initial C-141 which was approved.

NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572

General Incident Information

Site Name: TL San Andres #5 Tank Overflow
Well: [\[30-005-60572\]](#) TWIN LAKES SAN ANDRES UNIT #005
Facility:
Operator: [\[300825\]](#) BLUE SKY NM, INC.
Status: Initial C-141 Approved, Pending submission of Site Characterization / Remediation Plan OR Remediation Closure Report from the operator

Type: Produced Water Release	Severity: Major
District: Artesia	Surface Owner: Private
	County: Chaves (05)

FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

OCD is implementing two “New” submission pipelines that accompany C-141 submissions. The Notification of Liner Inspection (C-141L) is required pursuant to 19.15.29.11.A(5)(a)(ii) NMAC and the Notification of Final “Confirmation” Sampling (C-141N) is required pursuant to 19.15.29.12.D(1)(a). Historically, these notifications were processed via phone/e-mail which have been proven to be unwieldy and inefficient. Users will now complete the Notices through OCD permitting.

SUBMITTING A LINER INSPECTION NOTICE

Operators will use this notice when they have a release entirely contained in a lined containment and are ready to provide the required 2 business day notice for the final liner inspection.

1. Left Click on the Submissions tab in the top right of the website.
2. Left Click on Releases and Select [NOTIFY] Notification of Liner Inspection.

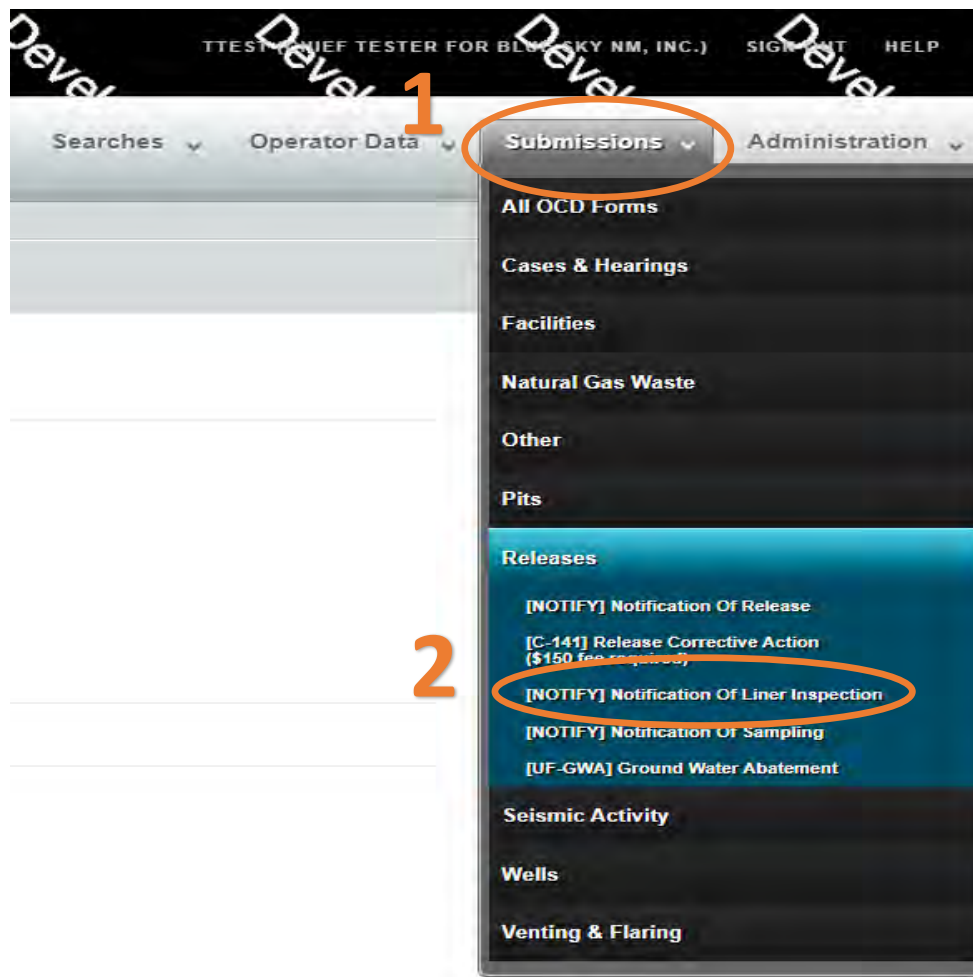


FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

On this Permitting page, users can review the status of all previous created/submitted/approved/rejected Notification of Liner Inspection for their current OGRID . The User can also resume working on a previous draft version of the application by left clicking on the PO Number hyperlink. Applications types that are under OCD Review or have been Approved/Rejected cannot be modified.

3. To create a new C-141 Application scroll down and left click on the New C-141 Application button.

The screenshot shows the 'OCD Permitting' interface. At the top, there is a breadcrumb trail: Home > Submissions > Releases > C-141L. Below this, a 'Status:' dropdown menu is set to 'Draft Application', with an orange arrow pointing to it from the right. Below the dropdown is a table with the following data:

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
XBXPR-230726-C-141L	C-141L		Draft Application	\$0.00	Non-Fee Application	7/26/2023	Cory Smith	7/26/2023
6KB8Q-230727-C-141L	C-141L		Draft Application	\$0.00	Non-Fee Application	7/27/2023	Cory Smith	7/27/2023
EQEI0-231006-C-141L	C-141L		Draft Application	\$0.00	Non-Fee Application	10/6/2023	Test Test	10/6/2023
SUI8J-231006-C-141L	C-141L	nAPP2327935305	Draft Application	\$0.00	Non-Fee Application	10/6/2023	Test Test	10/6/2023
IXENK-231020-C-141L	C-141L	nAB1420552744	Draft Application	\$0.00	Non-Fee Application	10/20/2023	Cory Smith	10/20/2023

Below the table, a blue button labeled 'New C-141L Application' is circled in orange. To the right of the button is a large orange number '3'.

FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

3a. OCD Permitting general functions will display any errors in the orange ribbon band at the top of your screen and inline while working through the applications.

The Submissions Contact Application, Fee Payment section of the C-141 is automatically filled out based upon the User's default contact information. The contact e-mail used in this section is where any approvals/rejections will be sent too. In the event that you are submitting this on behalf of another member of your organization you may edit the contact information by clicking on the edit submissions contact details button.

Submit Non-Fee [NOTIFY] Notification Of Release (NOR)

Submission Contact, Application, Fee and Payment Details

First Name: Test Application Status: Draft Application
Last Name: Test • Please call (505) 476-3441 or email ocd.fees@state.nm.us for support.
Email: cory.smith@emnrd.nm.gov Fee Amount: \$0.00

Edit Submission Contact Details

3a

Submission Contact Details

- The initial contact details for submissions are prefilled on creation from your login account information.
- Your operator administrator can assist you in changing your details, if so desired and appropriate.
- If you change this email, it is your responsibility to confirm the email details for this submission is valid.
 - The system will use this email to deliver updates regarding this application's submission status.

First Name:

Last Name:

Email:

Update Details

FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

4. Add the incident ID # from your Notice of Release (NOR) e-mail, C-141 Initial or from your records. Alternatively, if in your NOR application, you gave your release a custom site name you can also search by typing in the name into the box.

Application Details

Add Incident ID

4

Incident ID required for submission.

Submission Required ID

- Most of our forms have a single primary ID. If we identify more than one then this message/layout will change.
- The type of ID required is determined by the application. Currently ID is used to determine the placement in imaging.
- If you do not have an ID that is being requested, you could try any of the following:
 - review the available forms, instructions and help pages to determine if an initial form was not filed yet;
 - review the structures for which your operator is responsible;
 - use our public search pages to determine the appropriate ID;
 - contact the department for further instructions.

Incident ID: TL Sa

[nAPP2330760406] TL San Andres #5 Tank Overflow

Add Incident ID

The Oil Conservation Division (OCD) has accepted the application, Application ID: 300360 (Testing Only)

ocdonline, emnrd, EMNRD
To: Smith, Cory, EMNRD

This is an email from the OCD Permitting development environment and has been sent during testing. Anything contained in this email is **NOT** an official decision/email of the OCD.

To whom it may concern (c/o Testy McTesterson for BLUE SKY NM, INC.),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2330760406, with the following conditions:

- When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.

Please reference nAPP2330760406, on all subsequent C-141 submissions and communications regarding the remediation of this release.

NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

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

FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

Once you have entered a valid incident number the applications will populate data based upon answers that were submitted in the Notice Of Release application and the status of the incident based upon approvals of C-141 applications. Users should verify that the data is correct and that they are providing notice to the correct incident.

Application Details					
Type	ID		District	County	Location
Incident ID	[nAPP2330760406]	Delete	Artesia	Chaves	L-30-08S-29E 0 FNL 0 FEL 33.5883522,-104.0318222 NAD83

Note: Changing or deleting this ID will clear all the answers for this current application.

Questions

Prerequisites

Incident Operator	[300825] BLUE SKY NM, INC. Produced Water Release Remediation Plan Approved [30-005-60572] TWIN LAKES SAN ANDRES UNIT #005
Incident Type	
Incident Status	
Incident Well	
Incident Facility	

Location of Release Source

Site Name	TL San Andres #5 Tank Overflow
Date Release Discovered	10/25/2023
Surface Owner	Private

FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

5. Liner Inspections have 6 required questions that must be answered prior to submission.

Liner Inspection Event Information

Please answer all the questions in this group.

- What is the liner inspection surface area in square feet
- Have all the impacted materials been removed from the liner
- Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC
- Time liner inspection will commence
- Please provide any information necessary for observers to liner inspection
- Please provide any information necessary for navigation to liner inspection site

5

Required: Please provide an answer for all questions (above) in this group.

- What is the liner inspection surface area in square feet
- Have all the impacted materials been removed from the liner

Users will provide the surface area rounded to the nearest whole number of the liner that is to be inspected. Additionally **all** impacted materials (i.e. gravel/sand) must be removed prior to the inspection so that the entire area of the liner that was impacted is visible for inspection.

- Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC
- Time liner inspection will commence

Users will provide the Date (MM/DD/YYYY) and Time (hh:mm: AM/PM Mountain Time) that the liner inspection is scheduled. Inspections that are completed outside of the notified time may be rejected by the OCD, and additional inspections may be required. In the event that the date/time changes, submit an additional notice ASAP.

- Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC [11/12/2023](#) [Clear](#)
- Time liner inspection will commence [10:30 AM](#) [Clear](#)



Warning: Notification can not be less than two business days prior to conducting liner inspection.

NOTE: At this current time, due to this being a new process, OCD Permitting will provide a warning that your notice does not meet the requirements of two business days. The User may continue to submit applications with this error. However, this will likely change in future development. This is a compliance issues pursuant to 19.15.29.11.A(5)(a)(ii) NMAC and can be subject to compliance actions pursuant to 19.15.5 NMAC.

FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

5. Continued

<ul style="list-style-type: none">• Please provide any information necessary for observers to liner inspection• Please provide any information necessary for navigation to liner inspection site	 
---	--

Users will provide any information necessary for the Observers of the Liner inspection:

Examples: Business contact phone numbers. Details of the inspection.

Users will provide any info necessary for navigation to the Liner Inspection Site.

Examples: 23 miles south of Artesia turn Left at Mile Post. Location has a locked gate etc.

Follow best practices for not including Personal Identifiable Information (PII), This data is public DO NOT include any gate combination codes, or Private Names/Addresses/Phone Numbers, only Business contacts. OCD anticipates that Notifications of Liner Inspections and Sampling will be further developed in later phases.


6. Review your Notification for accuracy and completeness. This is the last chance to make any corrections to this data before submitting the document to the OCD.

Clicking the Delete button will clear the entire application and remove it from your application queue.

Liner Inspection Event Information

Please answer all the questions in this group.

- What is the liner inspection surface area in square feet [1,500](#)
- Have all the impacted materials been removed from the liner [Yes](#)
- Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC [11/12/2023](#)
- Time liner inspection will commence [10:30 AM](#)

 **Warning: Notification can not be less than two business days prior to conducting liner inspection.**

- Please provide any information necessary for observers to liner inspection [Contact Tester at my business Cell phone 867-5309](#)
- Please provide any information necessary for navigation to liner inspection site [Location has a locked gate at entrance to Highway. Contact Tester for access](#)

6

[Submit to OCD](#) [Delete](#)

FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

Once the user has submitted the Notice of Liner Inspection to the OCD, the user email which was identified in step 3a will receive an email from emnrd.oconline@emnrd.nm.gov indicated that the Notice was accepted. Additionally, the email will provide the user with the incident # (napp2330760406) for verification.

OCD Permitting also automatically will notify the assigned incident review of the notice and adds a sampling Notice date to the incident Date Stack.

The Oil Conservation Division (OCD) has accepted the application, Application ID 300420 (Testing Only)

oconline, emnrd, EMNRD
To: Smith, Cory, EMNRD

Tue 11/14/2023 4:10 PM

This is an email from the OCD Permitting development environment and has been sent during testing. Anything contained in this email is **NOT** an official decision/email of the OCD.

To whom it may concern (c/o Test Test for BLUE SKY NM, INC.).

The OCD has received the submitted *Notification for Liner Inspection for a Release (C-141L)*, for incident ID (n#) nAPP2330760406.

The liner inspection is expected to take place:

When: 11/12/2023 @ 10:30
Where: L-30-08S-29E 0 FNL 0 FEL (33.5883522,-104.0318222)

Additional Information: Contact Tester at my business Cell phone 867-5309

Additional Instructions: Location has a locked gate at entrance to Highway. Contact Tester for access

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, liner inspection pursuant to 19.15.29.11.A(5)(a) NMAC is required. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

Incident Dates				
Type	Action	Received	Denied	Approved
Remediation Closure Report	[300417]	11/14/2023		11/15/2023
Sampling Notice	[300419]	11/13/2023		11/13/2023
Liner Inspection Notice	[300420]	11/14/2023		11/14/2023
Remediation Plan	[300396]	11/13/2023		11/13/2023
Site Characterization	[300396]	11/13/2023		11/13/2023
Initial C-141 Report	[300371]	11/08/2023		11/08/2023
Notification	[300360]	11/03/2023		11/03/2023

FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

SUBMITTING A SAMPLING NOTICE

Operators will use this notice when they have a release not entirely contained in a lined containment and are ready to provide the required 2 business day notice for Confirmation “Final” sampling for areas that have been remediated.

1. Left Click on the Submissions tab in the top right of the website.
2. Left Click on Releases and Select [NOTIFY] Notification of Sampling.

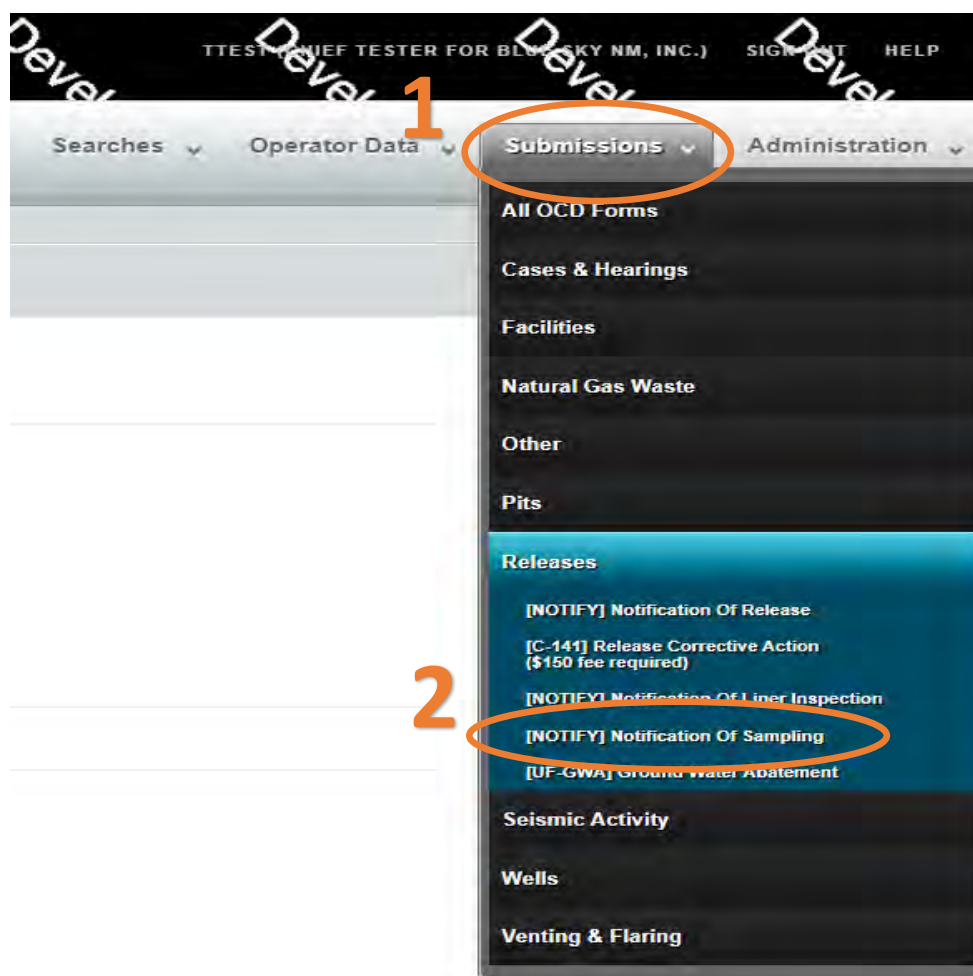


FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

On this Permitting page users can review the status of all previous created/submitted/approved/rejected Notification of Liner Inspection for their current OGRID . The user can also resume working on a previous draft version of the application by left clicking on the PO Number hyperlink. Applications types that are under OCD Review or have been Approved/Rejected cannot be modified.

3. To create a new C-141 Application scroll down and left click on the New C-141 Application button.

The screenshot displays the 'OCD Permitting' web application interface. At the top, there is a breadcrumb trail: Home > Submissions > Releases > C-141N. Below this, a 'Status:' dropdown menu is set to 'Draft Application', with an orange arrow pointing to it. The main content is a table with the following columns: PO Number, Type, ID, Status, Fee Amount, Payment Type, Created, Submitter *, and Modified. The table contains five rows of draft applications. An orange arrow points to the second row's PO Number, 'W3QFE-230727-C-141N'. At the bottom of the interface, a blue button labeled 'New C-141N Application' is circled in orange, with a large orange number '3' next to it.

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
MXLPR-230726-C-141N	C-141N		Draft Application	\$0.00	Non-Fee Application	7/26/2023	Cory Smith	7/26/2023
W3QFE-230727-C-141N	C-141N		Draft Application	\$0.00	Non-Fee Application	7/27/2023	Cory Smith	7/27/2023
TLUOU-230825-C-141N	C-141N	nAPP2323731968	Draft Application	\$0.00	Non-Fee Application	8/25/2023	Test Test	8/25/2023
IY0IN-231026-C-141N	C-141N		Draft Application	\$0.00	Non-Fee Application	10/26/2023	Test Test	10/26/2023
UFS5Q-231026-C-141N	C-141N	nAPP2120918798	Draft Application	\$0.00	Non-Fee Application	10/26/2023	Ashley Maxwell	10/26/2023

FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

3a. OCD Permitting general functions will display any errors in the orange ribbon band at the top of your screen and inline while working through the applications.

The Submissions Contact Application, Fee Payment section of the C-141 is automatically filled out based upon the users default contact information. The contact e-mail used in this section is where any approvals/rejections will be sent too. In the even that you are submitting this on behalf of another member of your organization you may edit the contact information by clicking on the edit submissions contact details button.

Submit Non-Fee [NOTIFY] Notification Of Release (NOR)

Submission Contact, Application, Fee and Payment Details

First Name: Test Application Status: Draft Application
Last Name: Test • Please call (505) 476-3441 or email ocd.fees@state.nm.us for support.
Email: cory.smith@emnrd.nm.gov Fee Amount: \$0.00

Edit Submission Contact Details **3a**

Submission Contact Details

- The initial contact details for submissions are prefilled on creation from your login account information.
- Your operator administrator can assist you in changing your details, if so desired and appropriate.
- If you change this email, it is your responsibility to confirm the email details for this submission is valid.
 - The system will use this email to deliver updates regarding this application's submission status.

First Name:

Last Name:

Email:

Update Details

FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

4. Add the incident ID # from your Notice of Release (NOR) e-mail, C-141 Initial or from your records. Alternatively if in your NOR application you gave your release a custom site name, you can also search by typing in the name into the box.

The figure illustrates the process of submitting an incident ID. It is divided into two main sections: 'Application Details' and 'Submission Required ID'.

Application Details: A blue button labeled 'Add Incident ID' is circled in orange. A large orange number '4' is positioned to its right. Below the button, a yellow banner contains the text 'Incident ID required for submission.'

Submission Required ID: This section lists instructions for finding an incident ID:

- Most of our forms have a single primary ID. If we identify more than one then this message/layout will change.
- The type of ID required is determined by the application. Currently ID is used to determine the placement in imaging.
- If you do not have an ID that is being requested, you could try any of the following:
 - review the available forms, instructions and help pages to determine if an initial form was not filed yet;
 - review the structures for which your operator is responsible;
 - use our public search pages to determine the appropriate ID;
 - contact the department for further instructions.

Below these instructions, a form field for 'Incident ID' is shown. The text 'TL Sa' is entered in the top part of the box, and '[nAPP2330760406] TL San Andres #5 Tank Overflow' is entered in the bottom part. An orange arrow points from the 'Add Incident ID' button in the 'Application Details' section to this form field.

Below the form field, another blue button labeled 'Add Incident ID' is shown. An orange arrow points from this button to the 'Incident ID' form field.

At the bottom, a screenshot of an email from the Oil Conservation Division (OCD) is shown. The email header reads: 'The Oil Conservation Division (OCD) has accepted the application, Application ID: 300360 (Testing Only)'. The email body contains the following text:

ocdonline, emnrd, EMNRD
To: Smith, Cory, EMNRD

This is an email from the OCD Permitting development environment and has been sent during testing. Anything contained in this email is **NOT** an official decision/email of the OCD.

To whom it may concern (c/o Testy McTesterson for BLUE SKY NM, INC.),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2330760406, with the following conditions:

- When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.

Please reference nAPP2330760406, on all subsequent C-141 submissions and communications regarding the remediation of this release.

NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

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

An orange circle highlights the incident ID 'nAPP2330760406' in the email body, with an orange arrow pointing from this circle to the 'Incident ID' form field in the section above.

FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

Once you have entered a valid incident number the applications will populate data based upon answers that were submitted in the Notice Of Release application and the status of the incident based upon approvals of C-141 applications. Users should verify that the data is correct and that they are providing notice to the correct incident.

Application Details

Type	ID		District	County	Location
Incident ID	[nAPP2330760406]	Delete	Artesia	Chaves	L-30-08S-29E 0 FNL 0 FEL 33.5883522,-104.0318222 NAD83

Note: Changing or deleting this ID will clear all the answers for this current application.

Questions

Prerequisites

Incident Operator	[300825] BLUE SKY NM, INC. Produced Water Release Remediation Plan Approved [30-005-60572] TWIN LAKES SAN ANDRES UNIT #005
Incident Type	
Incident Status	
Incident Well	
Incident Facility	

Location of Release Source

Site Name	TL San Andres #5 Tank Overflow
Date Release Discovered	10/25/2023
Surface Owner	Private

FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

5. Sampling Notifications have 6 required questions that must be answered prior to submission.

Sampling Event General Information

Please answer all the questions in this group.

- What is the sampling surface area in square feet
- What is the estimated number of samples that will be gathered
- Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC
- Time sampling will commence
- Please provide any information necessary for observers to contact samplers
- Please provide any information necessary for navigation to sampling site

5

Required: Please provide an answer for all questions (above) in this group.

- What is the sampling surface area in square feet
- What is the estimated number of samples that will be gathered

Users will provide the surface area rounded to the nearest whole number of the area that is intended to be sampled for this notice. Additionally, the user will provide the estimated number of samples that will be collected during this sampling event. In general this number should be Surface Area / 200sqft. Alternative sampling plans may still be approved in remediation plans or via e-mail.

- Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC
- Time sampling will commence

Users will provide the Date (MM/DD/YYYY) and Time (hh:mm: AM/PM Mountain Time) of the scheduled sampling notification. Samples that are collected outside of the notified time may be rejected by the OCD, and additional samples may be required. In the event that the date/time changes, submit an additional notice ASAP.

- Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC [11/12/2023](#) [Clear](#)
- Time sampling will commence [11:00 AM](#) [Clear](#)

Warning: Notification can not be less than two business days prior to conducting final sampling.

NOTE: At this current time due to this being a new process OCD Permitting will provide a warning that your notice does not meet the requirements of two business days. User may continue to submit applications with this error this will likely change in future development. This is a compliance issues pursuant to 19.15.29.12.D (1)(a) NMAC and can be subject to compliance actions pursuant to 19.15.5 NMAC.

FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

5. Continued

• Please provide any information necessary for observers to contact samplers	+
• Please provide any information necessary for navigation to sampling site	+

Users will provide any information necessary for the Observers of the Sampling Event. **This section is NOT to be used to request alternative sampling size or approvals of sampling plans.**

Examples: Business contact phone numbers. Details of the inspection.

Users will provide any info necessary for Navigation to the Sampling event Site.

Examples: 23 miles south of Artesia turn Left at Mile Post. Location has a locked gate etc.

Follow best practice for not including Personal Identifiable Information (PII). This data is public DO NOT include any gate combination codes, or Private Names/Addresses/Phone Numbers, only Business contacts. OCD anticipates that Notifications of Liner Inspections and Sampling will be further developed in later phases.

6. Review your Notification for accuracy and completeness. This is the last chance to make any corrections to this data before submitting the document to the OCD.

Clicking the Delete button will clear the entire application and remove it from your application queue.

Sampling Event General Information

Please answer all the questions in this group.

• What is the sampling surface area in square feet	4,500
• What is the estimated number of samples that will be gathered	23
• Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/12/2023
• Time sampling will commence	11:00 AM
→ Warning: Notification can not be less than two business days prior to conducting final sampling.	
• Please provide any information necessary for observers to contact samplers	OCD Approved 400 sqft Sampling in the approved remediation plan.
• Please provide any information necessary for navigation to sampling site	23 Miles south of Carlsbad, turn at Mile Marker 240. Locked Gate at turn off Contact Tester for Combination.

6

[Submit to OCD](#) [Delete](#)

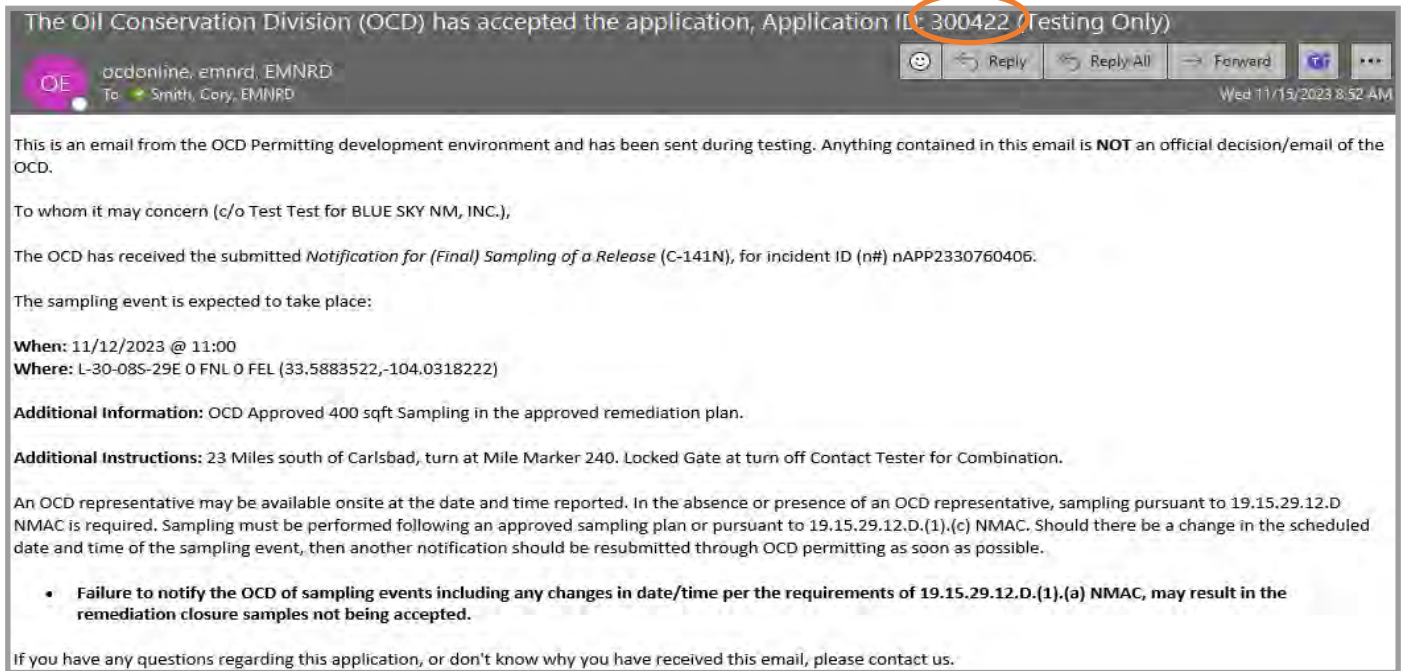
FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES(C-141L & C-141N)

Once the User has submitted the Notice of Sampling to the OCD. The User email which was identified in step 3a will receive an email from emnrd.oconline@emnrd.nm.gov indicated that the Notice was accepted. Additionally the email will provide the User with the incident # (napp2330760406) for verification.

OCD Permitting also automatically will notify the assigned incident review of the notice and adds a sampling Notice date to the incident Date Stack.

This complete submitting a Notification of Sampling.



Incident Dates				
Type	Action	Received	Denied	Approved
Remediation Closure Report	[300417]	11/14/2023		11/15/2023
Sampling Notice	[300419]	11/13/2023		11/13/2023
Liner Inspection Notice	[300420]	11/14/2023		11/14/2023
Remediation Plan	[300396]	11/13/2023		11/13/2023
Site Characterization	[300396]	11/13/2023		11/13/2023
Initial C-141 Report	[300371]	11/08/2023		11/08/2023
Notification	[300360]	11/03/2023		11/03/2023

FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

Remediation Closure Request can be submitted from the Initial C-141 Application within 15 days of discovery however, this is a very rare event. Most C-141 Closure Requests will be submitted with a Dig & Haul remediation plan that has been completed. Regardless of “When” the application is sent in, the remediation closure section of the C-141 is used to ensure the responsible party has met the closure conditions outlined in 19.15.29.12 NMAC. To submit a Remediation Closure Request follow the directions below.

1. Left Click on the Submissions tab in the top right of the website.
2. Left Click on Releases and Select [C-141] Release Corrective Action (\$150 fee required)

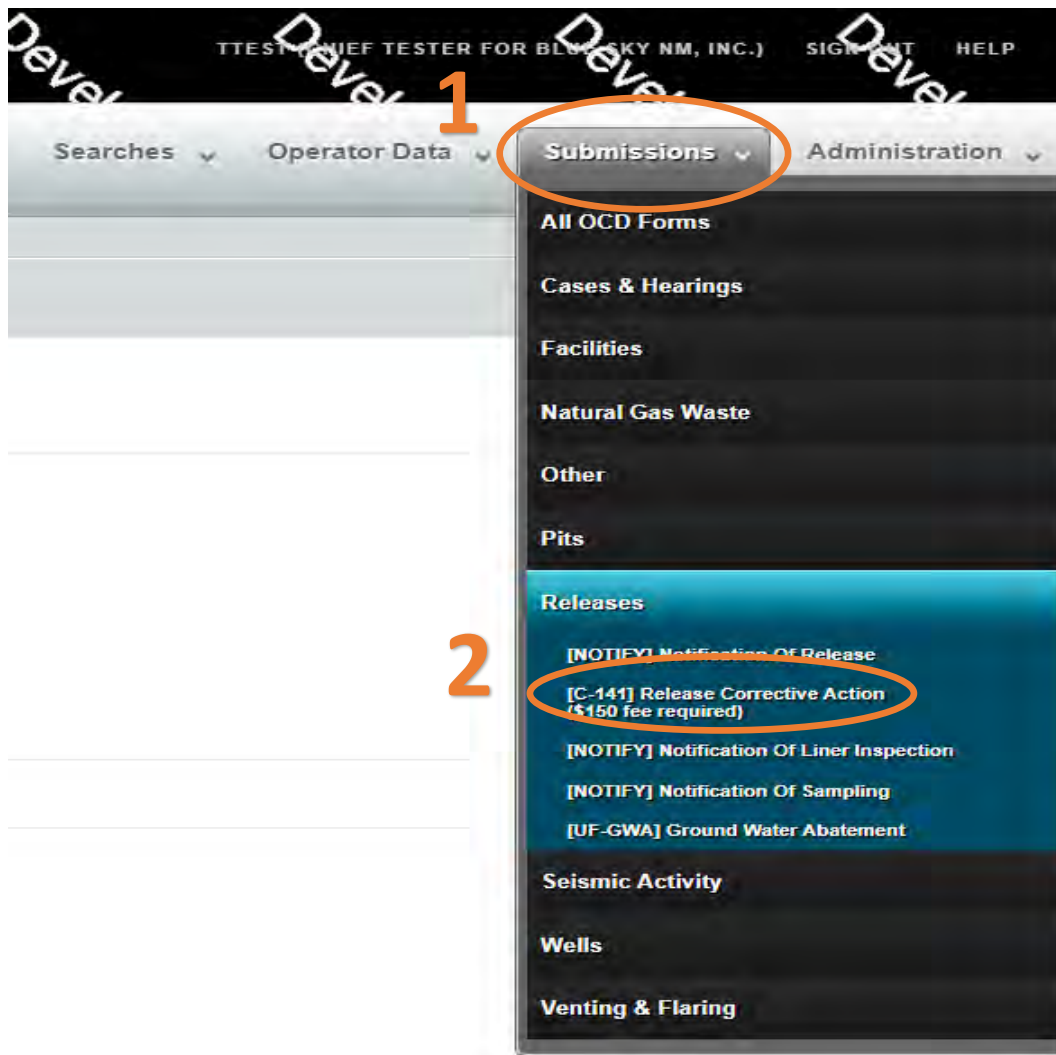


FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

On this Permitting page, users can review the status of all previous submitted C-141 applications for their current OGRID . The User can also resume working on a previous draft version of the application by left clicking on the PO Number hyperlink. Application types that are under OCD Review or have been Approved/ Rejected cannot be modified.

3. To create a new C-141 Application scroll down and left click on the New C-141 Application button.

OCD Permitting

Home > Submissions > Releases > C-141

Status:

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
B3TGL-221103-C-1410	C-141	nAPP2230057252	Under OCD Review	\$150.00	Credit Card	11/3/2022	Cory Smith	10/13/2023
DY3LL-230808-C-1410	C-141		Draft Application	\$150.00		6/8/2023	Cory Smith	6/8/2023
HBG3L-230708-C-1410	C-141	nAPP2318747496	Under OCD Review	\$150.00	Credit Card	7/6/2023	Cory Smith	7/6/2023
ER814-230713-C-1410	C-141		Draft Application	\$150.00		7/13/2023	Cory Smith	7/13/2023
D3C79-230713-C-1410	C-141	nAPP2318639832	Under OCD Review	\$150.00	Credit Card	7/13/2023	Cory Smith	7/13/2023
4AANL-230728-C-1410	C-141		Draft Application	\$150.00		7/26/2023	Cory Smith	7/26/2023
SJFLR-230728-C-1410	C-141		Draft Application	\$150.00		7/26/2023	Cory Smith	7/26/2023
KAXD9-230727-C-1410	C-141		Draft Application	\$150.00		7/27/2023	Cory Smith	7/27/2023
67UV4-230728-C-1410	C-141	nAPP2318747496	Draft Application	\$150.00		7/28/2023	Cory Smith	7/28/2023
B2Q4A-230728-C-1410	C-141	nAPP2320953386	Draft Application	\$150.00		7/28/2023	Cory Smith	7/28/2023
1XJ5S-230731-C-1410	C-141	nAPP2320953386	Draft Application	\$150.00		7/31/2023	Cory Smith	7/31/2023
83ALM-230803-C-1410	C-141	nAPP2320953386	Draft Application	\$150.00		8/3/2023	Cory Smith	8/3/2023
KGSLS-230810-C-1410	C-141	nAPP2320953386	Under OCD Review	\$150.00	Credit Card	8/10/2023	Cory Smith	8/10/2023
RHFAE-230810-C-1410	C-141	nAPP2320953386	Under OCD Review	\$150.00	Credit Card	8/10/2023	Cory Smith	8/23/2023
RHKBD-230825-C-1410	C-141	nAPP2323731968	Under OCD Review	\$150.00	Credit Card	8/25/2023	Cory Smith	8/25/2023

3

New C-141 Application

FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

3a. OCD Permitting general functions will display any errors in the orange ribbon band at the top of your screen and inline while working through the applications.

The Submissions Contact Application, Fee Payment section of the C-141 is automatically filled out based upon the Users default contact information. The contact E-mail used in this section is where any approvals/rejections will be sent too. In the even that you are submitting this on behalf of another member of your Organization you may edit the contact information by clicking on the edit submissions contact details button.

The image shows a screenshot of a web application interface. The main heading is "Submit Non-Fee [NOTIFY] Notification Of Release (NOR)". Below this is a section titled "Submission Contact, Application, Fee and Payment Details". This section contains the following information:

- First Name: Test
- Last Name: Test
- Email: cory.smith@emnrd.nm.gov
- Application Status: Draft Application
- Fee Amount: \$0.00

A blue button labeled "Edit Submission Contact Details" is circled in orange. A large orange "3a" is overlaid on the right side of this section. A line connects this button to a larger, detailed view of the "Submission Contact Details" form below.

The detailed view of the "Submission Contact Details" form includes:

- Three bullet points of instructions: "The initial contact details for submissions are prefilled on creation from your login account information.", "Your operator administrator can assist you in changing your details, if so desired and appropriate.", and "If you change this email, it is your responsibility to confirm the email details for this submission is valid." (with a sub-bullet: "The system will use this email to deliver updates regarding this application's submission status.")
- Input fields for "First Name" (containing "Test"), "Last Name" (containing "Test"), and "Email" (containing "cory.smith@emnrd.nm.gov"). An orange arrow points to the email field.
- An "Update Details" button at the bottom, with an orange arrow pointing to it.

FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

4. Add the incident ID # from your Notice of Release (NOR) e-mail, C-141 Initial or from your records. Alternatively if in your NOR application you gave your release a custom site name you can also search by typing in the name into the box.

Application Details

Add Incident ID 4

Incident ID required for submission.

Submission Required ID

- Most of our forms have a single primary ID. If we identify more than one then this message/layout will change.
- The type of ID required is determined by the application. Currently ID is used to determine the placement in imaging.
- If you do not have an ID that is being requested, you could try any of the following:
 - review the available forms, instructions and help pages to determine if an initial form was not filed yet;
 - review the structures for which your operator is responsible;
 - use our public search pages to determine the appropriate ID;
 - contact the department for further instructions.

Incident ID
[nAPP2330760406] TL San Andres #5 Tank Overflow

Add Incident ID

The Oil Conservation Division (OCD) has accepted the application, Application ID: 300360 (Testing Only)

ocdonline, emnrd, EMNRD
To: Smith, Cory, EMNRD

This is an email from the OCD Permitting development environment and has been sent during testing. Anything contained in this email is **NOT** an official decision/email of the OCD.

To whom it may concern (c/o Testy McTesterson for BLUE SKY NM, INC.),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2330760406, with the following conditions:

- When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.

Please reference nAPP2330760406, on all subsequent C-141 submissions and communications regarding the remediation of this release.

NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

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

FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

Once you have entered a valid incident number the applications will populate all of the C-141 questions. You may notice that the questions are identical to the Initial/ Remediation Plan C-141 and that some of the questions will already have answers in them. These answers are populated from the **APPROVED** NOR/C-141 applications that were submitted in Figure 1/2/3. This functionality works for all C-141 submissions allowing the User to correct/validate data provided to the OCD with each submission. Pre-populated answers only appear with approved data therefore, any answers provided in an application that is Under OCD Review or that was Rejected will be required to be reentered for each submission until the questions are in an approved application.

Please note, that if the user changes answers to previously approved questions they will also have to include updated attachments for that section.

Example: The user answered the Requesting Remediation Plan Approval with this submission in the C-141 Initial (Figure 1) as “No”. This answer signaled to OCD Permitting that the C-141 Application was an Initial C-141. Now that the User wants to submit a Remediation plan for approval they need to change the answer to this question to “Yes” .

C-141 Initial Application

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

- Requesting a remediation plan approval with this submission [No](#) [Clear](#)

C-141 Remediation Plan Application: By Answer yes additional Remediation Plan questions pop up.

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

- Requesting a remediation plan approval with this submission [Yes](#) [Clear](#)

Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.

- Have the lateral and vertical extents of contamination been fully delineated [+](#)
Required: Please provide an answer for all questions for the preceding group, Site Characterization (above).
- Was this release entirely contained within a lined containment area [+](#)

FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

5. Using the Data from Figure 1/2/3 this submission will pick up where those ones left off. Please keep in mind that the User have the ability to submit ALL DATA from Figure 1/2/3 in ONE application if possible. In most cases the User will not have remediation closure request data within 15 days of discovery and will be submitted after a Initial C-141 application has been submitted.


To Start a Remediation Closure request , scroll all the way down to the bottom of the C-141 Application and Answer the Following question as “Yes”. This will flag OCD Permitting that the User is submitting a Closure Request and will reflect the appropriate Incident status upon submission.

Note: Incorrect submission types where the attachments don’t match up will be rejected. I.E Submitting a Remediation Closure Request under the Remediation Plan.

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

- Requesting a remediation closure approval with this submission

 Required.


 **5**

FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

6. Additional Remediation Closure questions will become required upon answering “Yes”. The User must answer all required questions in this section to move forward.

Sampling Event Information

Last sampling notification (C-141N) recorded

{Unavailable}

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

△ Requesting a remediation closure approval with this submission Yes Clear Reset

Correction: Not allowed to submit an application requesting remediation closure without notification of liner inspection (C-141L) or sampling (C-141N).

Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
• All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	+
• What was the total surface area (in square feet) remediated	+
• What was the total volume (cubic yards) remediated	+
• All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	+
• What was the total surface area (in square feet) reclaimed	+
• What was the total volume (in cubic yards) reclaimed	+
• Summarize any additional remediation activities not included by answers (above)	+

Required: Please provide an answer for all questions (above) in this group.

The remediation closure request requires the following attachments.

Correction: Missing attachment tags [{ Closure Request, Scaled Site Map, Photographs, Lab Analyses, Remediation Activities. }]

6

FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

6. Continued

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

If the Sampling Event Information is showing {Unavailable.} that means the User has not submitted a sampling notice to the OCD. Pursuant to 19.15.29.12.D(1)(a), Operators are required to provide the OCD two business days notification prior to the collection of final sampling. Figure 4 will detail this process in detail. However, for the Remediation Closure Report the user needs to know that they may not request remediation closure without a confirmation sampling notice on file. OCD will use the provide information from sampling notices to schedule onsite inspections and to reference Laboratory Chain of Custody and the number of samples collected.

Samples that are collected without proper notification may not be accepted for Remediation closure and the responsible party may be required to collect additional confirmation samples.

Sampling Event Information	
Last sampling notification (C-141N) recorded	300419
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/13/2023
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	1820

Above is an example of a completed Sampling Event Information. This section will display the last submitted notification. However, for multiple sampling notices, sample dates are also recorded in the incident details.

Incident Dates				
Type	Action	Received	Denied	Approved
Sampling Notice	[300419]	11/13/2023		11/13/2023
Remediation Plan	[300396]	11/13/2023		11/13/2023
Site Characterization	[300396]	11/13/2023		11/13/2023
Initial C-141 Report	[300371]	11/08/2023		11/08/2023
Notification	[300360]	11/03/2023		11/03/2023

FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

6. Continued

- All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion

All areas reasonable needed for production Operations or subsequent drilling operations **do not have to be reclaimed** immediately but those areas must be backfilled and stabilized. These areas will be required to be reclaimed at a later date and will be reported in the Reclamation Report request (Figure 6)

- What was the total surface area (in square feet) remediated
- What was the total volume (cubic yards) remediated

Now that remediation has been completed, total surface area and total volume of remediated impacts are known to the Operator. **These should not be estimates.**

- All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene
- What was the total surface area (in square feet) reclaimed
- What was the total volume (in cubic yards) reclaimed


All areas **NOT** reasonable needed for production Operations or subsequent drilling **operations have to be reclaimed** immediately. This means that those areas must be non waste containing and meet the reclamations standards of 600 mg/kg Chlorides (or background) 100 mg/kg TPH, 50 mg/kg BTEX, 10 mg/kg Benzene. They must also be stabilized, returned to existing grade and have a soil cover that prevents ponding and erosion.


User must provide the total area and volume of areas not reasonable needed for production or subsequent drilling operations that were reclaimed at the time of Remediation Closure Request. If all impacted areas are reasonable needed then the User will answer “Yes” and report “0” area and volume reclaimed.

FIGURE 5


SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

7. When requesting Remediation Closure Approval the User must submit 1 or more attachments that include the below attachment tags. Users must review their attached document to ensure that all of the items being requested are in the attached file(s). Attachments/Tags will likely change in future development. To add an attachment scroll to the top of the application left click the Blue Add Attachment Button. Select the type of attachment you are uploading from the drop down list. Left click the Choose file button to select the file from your computer to upload. Once you have selected the file you wish to upload save the upload by left clicking the Upload selected Files. Repeat this process for multiple Attachments.

Summarize any additional remediation activities not included by answers (above) 

 Required: Please provide an answer for all questions (above) in this group.

The remediation closure request requires the following attachments:

 Correction: Missing attachment tags [{ Closure Request, Scaled Site Map, Photographs, Lab Analyses, Remediation Activities. }]

Supporting Document


- If your document requires your signature, please upload the signed document.
- Unless otherwise specified, the uploaded documents must be PDF format and should be scanned at 300 DPI.
- Name your files appropriately (e.g. AppHearing_CaseNo.pdf, Cont_CaseNo.pdf, C-133_CoNo.pdf).
- A file name can't contain any of the following characters: < > : " / \ | ? * & % ' .

Method of submission

Upload Attachment(s): **7**





 Add Application Attachments

Attachment Type: Remediation Closure Request - Photographs 

Attachment:  Choose File TEST PDF.pdf


Upload Selected Files

Upload Attachment(s):

Attachment Type (Description) Tag(s)	Original Uploaded File Name	
 Scaled Site Map,  Photographs,  Lab Analyses,  Remediation Activities Add Tag	TEST PDF.pdf (36.7 KB) Replace File	Delete
	Files: 1 Total Size: 36.7 KB	

 Add Application Attachments

FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

Example of a Completed Remediation Closure Request.

Sampling Event Information			
Last sampling notification (C-141N) recorded	300419		
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/13/2023		
What was the (estimated) number of samples that were to be gathered	10		
What was the sampling surface area in square feet	1820		

Remediation Closure Request			
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>			
Δ Requesting a remediation closure approval with this submission	Yes	Clear	Reset
Have the lateral and vertical extents of contamination been fully delineated	Yes		
Was this release entirely contained within a lined containment area	No		
Δ All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	Clear	Reset
Δ What was the total surface area (in square feet) remediated	1820	Clear	Reset
Δ What was the total volume (cubic yards) remediated	410	Clear	Reset
Δ All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	Clear	Reset
Δ What was the total surface area (in square feet) reclaimed	0	Clear	Reset
Δ What was the total volume (in cubic yards) reclaimed	0	Clear	Reset
Δ Summarize any additional remediation activities not included by answers (above)	Release was contained to Areas reasonable needed for Production.	Clear	Reset

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



FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

8. Once all of the questions have been answered. The user should review the answers and then Sign/Certify the data for submission.

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

- I hereby agree and sign off to the above statement

 Required  8



9. The User now must answer if they are requesting a Reclamation Report approval with this submission. If the user answers “no”, this submission will be classified as a Remediation Closure Report. If the User selects yes and there is not an approved Initial C-141/Remediation Plan on file this submission will ALSO count as a Initial C-141 + Remediation plan + Remediation Closure Request + Reclamation Report (Figure 6).

Please note that OCD does not approve partial applications in the event that the User submits an Initial C-141 + Remediation Plan + Remediation Closure and the application is rejected, all C-141 types will be rejected.

Reclamation Report

Only answer the questions in this group if all reclamation steps have been completed.

- Requesting a reclamation approval with this submission

 Required  9

10. Review your C-141 application for accuracy and completeness. This is the last chance before submitting the document to the OCD to make any corrections to this data. Operators will have the ability to modify these questions/response on any subsequent C-141 submission. To submit the application to the OCD click the Make Payment button. You will be directed to a Third Party website to process payment.

Clicking the Delete button will clear the entire application and remove it from your application que.

Reclamation Report

Only answer the questions in this group if all reclamation steps have been completed.

- Requesting a reclamation approval with this submission [No](#)

10


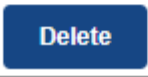
 

FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

Once the user has submitted the C-141 Remediation Closure Report to the OCD. The user email which was identified in step 3a will receive an email from emnrd.ocdonline@emnrd.nm.gov that is the receipt and proof of submission to the OCD. The receipt provides an PO Number that can be searched on the OCD Action Status Page.

PO Number:	Y25FS-231113-C-1410
Payment Date:	11/14/2023
Payment Amount:	\$150.00
Payment Type:	Credit Card
Application Type:	Application for administrative approval of a release notification and corrective action
Fee Amount:	\$150.00
Application Status:	Under OCD Review
OGRID:	300825
First Name:	Test
Last Name:	Test
Email:	cory.smith@emnrd.nm.gov

At this state the Remediation Closure Report C-141 Application is Under OCD Review (Submitted) and the incident status will change to reflect the current status of the incident.

OCD Permitting

Home > Submissions > Releases > C-141

Status:

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
Y25FS-231113-C-1410	C-141	nAPP2330760406	Under OCD Review	\$150.00	Credit Card	11/13/2023	Test Test	11/14/2023

NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572

General Incident Information

Site Name:	TL San Andres #5 Tank Overflow	Severity:	Major
Well:	[30-005-60572] TWIN LAKES SAN ANDRES UNIT #005	Surface Owner:	Private
Facility:		County:	Chaves (05)
Operator:	[300825] BLUE SKY NM, INC.		
Status:	<u>Remediation Closure Report Received, Pending OCD Review</u>		
Type:	Produced Water Release		
District:	Artesia		

FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

Example of Accepted Application.

The Oil Conservation Division (OCD) has approved the application, Application ID: 300417 (Testing Only)

ocdonline, emnrd, EMNRD
To: Smith, Cory, EMNRD
Tue 11/14/2023 11:24 AM

This is an email from the OCD Permitting development environment and has been sent during testing. Anything contained in this email is **NOT** an official decision/email of the OCD.

To whom it may concern (c/o Test Test for BLUE SKY NM, INC.),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2330760406, with the following conditions: **This is where Conditions of Approval or Reason of Rejection will be.**

- Complete Reclamation as soon those areas are no longer reasonable needed for production or subsequent drilling operations.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

At this state the Remediation Plan C-141 Application is has been Processed (Approved or Rejected) and the incident status will change to reflect the current status of the incident.

OCD Permitting

Home > Submissions > Releases > C-141

Status:

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
KITLT-231108-C-1410	C-141	nAPP2330760406	Approved by the OCD	\$150.00	Credit Card	11/8/2023	Test Test	11/13/2023
Y25FS-231113-C-1410	C-141	nAPP2330760406	Approved by the OCD	\$150.00	Credit Card	11/13/2023	Test Test	11/14/2023

NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572

General Incident Information

Site Name: TL San Andres #5 Tank Overflow
Well: [\[30-005-60572\]](#) TWIN LAKES SAN ANDRES UNIT #005
Facility:
Operator: [\[300825\]](#) BLUE SKY NM, INC.
Status: Remediation Closure Report Approved, Pending submission of Reclamation Report from the operator
Type: Produced Water Release
District: Artesia

Severity: Major
Surface Owner: Private
County: Chaves (05)

FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

Example of Rejected Application.

The Oil Conservation Division (OCD) has rejected the application, Application ID: 300417 (Testing Only)

ocdonline, emnrd, EMNRD
To: Smith, Cory, EMNRD
Tue 11/14/2023 11:35 AM

This is an email from the OCD Permitting development environment and has been sent during testing. Anything contained in this email is **NOT** an official decision/email of the OCD.

To whom it may concern (c/o Test Test for BLUE SKY NM, INC.),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2330760406, for the following reasons: **This is where Conditions of Approval or Reason of Rejection will be.**

- Samples were Collected 3 weeks before Sample Date.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 300417.
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.

At this state the Remediation Plan C-141 Application is has been Processed (Approved or Rejected) and the incident status will change to reflect the current status of the incident.

OCD Permitting

Home > Submissions > Releases > C-141

Status: Rejected by the OCD

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
W6D6S-230829-C-1410	C-141	nAPP2323758323	Rejected by the OCD	\$150.00	Credit Card	8/29/2023	Michael Buchanan	11/9/2023
BJUC4-231020-C-1410	C-141	nAPP2227253344	Rejected by the OCD	\$150.00	Credit Card	10/20/2023	Ashley Maxwell	11/7/2023
IUTEF-231023-C-1410	C-141	nAPP2224534981	Rejected by the OCD	\$150.00	Credit Card	10/23/2023	Ashley Maxwell	11/8/2023
FRSJY-231026-C-1410	C-141	nAPP2329340724	Rejected by the OCD	\$150.00	Credit Card	10/26/2023	Test Test	10/26/2023
Y25FS-231113-C-1410	C-141	nAPP2330760406	Rejected by the OCD	\$150.00	Credit Card	11/13/2023	Test Test	11/14/2023

Remember rejected Applications do not show a rejected status but will display the furthest along APPROVED application. In this case the last accept application was the Remediation Plan which was approved.

NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572

General Incident Information

Site Name: TL San Andres #5 Tank Overflow
Well: [30-005-60572] TWIN LAKES SAN ANDRES UNIT #005
Facility:
Operator: [300825] BLUE SKY NM, INC.
Status: Remediation Plan Approved, Pending submission of Remediation Closure Report from the operator
Type: Produced Water Release
District: Artesia

Severity: Major
Surface Owner: Private
County: Chaves (05)

FIGURE 6

SUBMITTING A RECLAMATION REPORT(C-141-V-Reclamation)

Reclamation Reports can be submitted from the Initial C-141 Application within 15 days of Discovery however, this is a very rare event. Most C-141 Reclamation reports will be submitted with a Dig & Haul remediation closure request when the release is not in an area reasonable needed for production or subsequent drilling operations. For areas that are reasonable needed for production or subsequent drilling operations Reclamation reports will be sent in when those areas no longer reasonable needed and Reclamation has been completed. Regardless of “When” the application is sent in the reclamation report section of the C-141 is used to ensure the responsible party has met the Reclamation conditions outlined in 19.15.29.13 NMAC. To submit a Reclamation Report follow the directions below.

1. Left Click on the Submissions tab in the top right of the website.

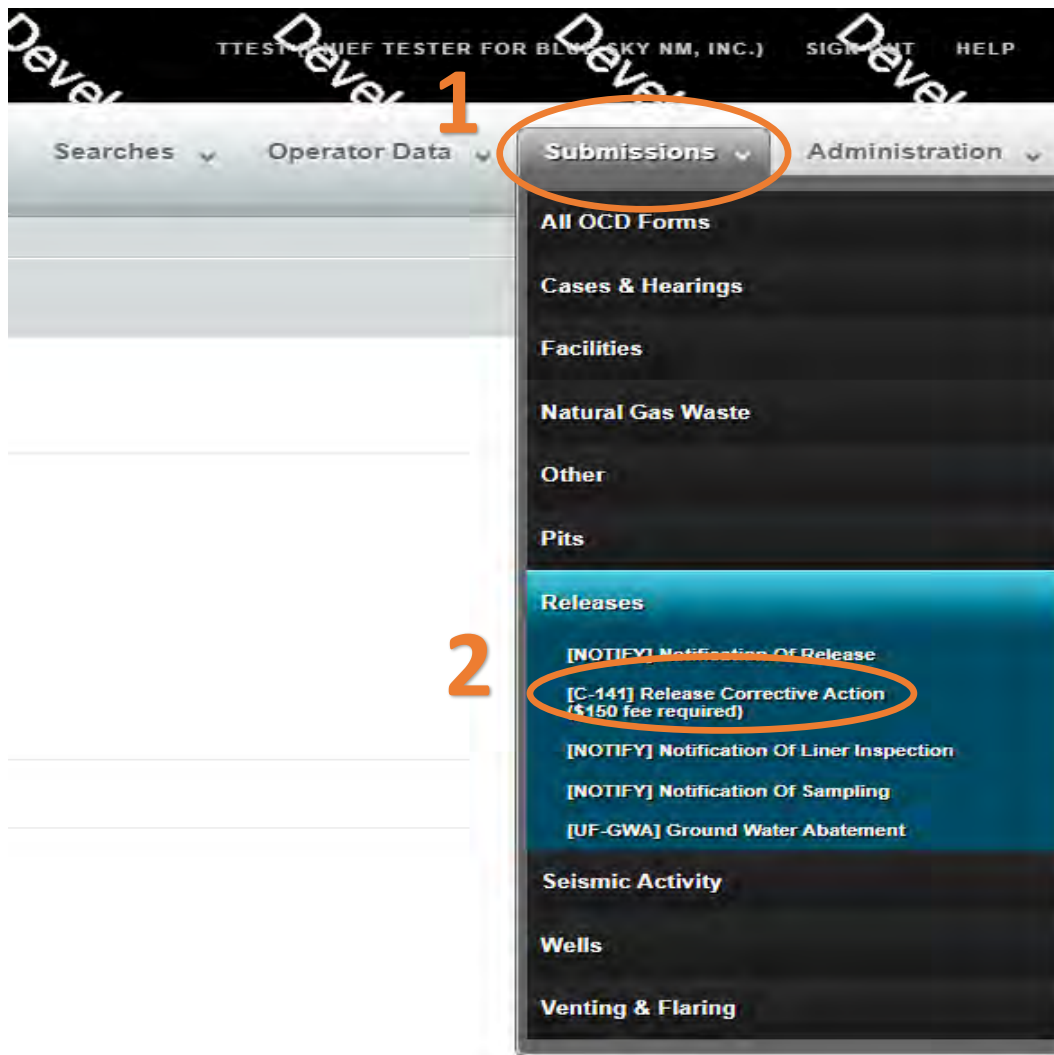


FIGURE 6

SUBMITTING A RECLAMATION REPORT(C-141-V-Reclamation)

On this Permitting page Users can review the status of all previous submitted C-141 Applications for their current OGRID . The user can also resume working on a previous draft version of the application by left clicking on the PO Number hyperlink. Applications types that are under OCD Review or have been Approved/ Rejected cannot be modified.

3. To create a new C-141 Application scroll down and left click on the New C-141 Application button.

The screenshot shows the 'OCD Permitting' interface. At the top, there is a breadcrumb trail: Home > Submissions > Releases > C-141. Below this, a 'Status:' dropdown menu is set to 'All', with an orange arrow pointing to it from the right. The main content is a table with 9 columns: PO Number, Type, ID, Status, Fee Amount, Payment Type, Created, Submitter *, and Modified. The table lists 17 C-141 applications. An orange arrow points to the second row, which is a 'Draft Application' with PO Number [OY3LL-230808-C-1410](#). At the bottom of the page, a blue button labeled 'New C-141 Application' is circled in orange, with a large orange number '3' next to it.

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
B3TGL-221103-C-1410	C-141	nAPP2230057252	Under OCD Review	\$150.00	Credit Card	11/3/2022	Cory Smith	10/13/2023
OY3LL-230808-C-1410	C-141		Draft Application	\$150.00		6/8/2023	Cory Smith	6/8/2023
HBG3L-230708-C-1410	C-141	nAPP2318747496	Under OCD Review	\$150.00	Credit Card	7/6/2023	Cory Smith	7/6/2023
ER814-230713-C-1410	C-141		Draft Application	\$150.00		7/13/2023	Cory Smith	7/13/2023
D3C79-230713-C-1410	C-141	nAPP2318639832	Under OCD Review	\$150.00	Credit Card	7/13/2023	Cory Smith	7/13/2023
4AANL-230728-C-1410	C-141		Draft Application	\$150.00		7/26/2023	Cory Smith	7/26/2023
SJFLR-230728-C-1410	C-141		Draft Application	\$150.00		7/26/2023	Cory Smith	7/26/2023
KAXD9-230727-C-1410	C-141		Draft Application	\$150.00		7/27/2023	Cory Smith	7/27/2023
67UV4-230728-C-1410	C-141	nAPP2318747496	Draft Application	\$150.00		7/28/2023	Cory Smith	7/28/2023
B2Q4A-230728-C-1410	C-141	nAPP2320953386	Draft Application	\$150.00		7/28/2023	Cory Smith	7/28/2023
1XJ5S-230731-C-1410	C-141	nAPP2320953386	Draft Application	\$150.00		7/31/2023	Cory Smith	7/31/2023
83ALM-230803-C-1410	C-141	nAPP2320953386	Draft Application	\$150.00		8/3/2023	Cory Smith	8/3/2023
KGSLS-230810-C-1410	C-141	nAPP2320953386	Under OCD Review	\$150.00	Credit Card	8/10/2023	Cory Smith	8/10/2023
RHFAE-230810-C-1410	C-141	nAPP2320953386	Under OCD Review	\$150.00	Credit Card	8/10/2023	Cory Smith	8/23/2023
RHKBD-230825-C-1410	C-141	nAPP2323731968	Under OCD Review	\$150.00	Credit Card	8/25/2023	Cory Smith	8/25/2023

3

New C-141 Application

FIGURE 6

SUBMITTING A RECLAMATION REPORT(C-141-V-Reclamation)

3a. OCD Permitting general functions will display any errors in the orange ribbon band at the top of your screen and inline while working through the applications.

The Submissions Contact Application, Fee Payment section of the C-141 is automatically filled out based upon the Users default contact information. The contact E-mail used in this section is where any approvals/rejections will be sent too. In the even that you are submitting this on behalf of another member of your Organization you may edit the contact information by clicking on the edit submissions contact details button

Submit Non-Fee [NOTIFY] Notification Of Release (NOR)

Submission Contact, Application, Fee and Payment Details

First Name: Test Application Status: Draft Application
Last Name: Test • Please call (505) 476-3441 or email ocd.fees@state.nm.us for support.
Email: cory.smith@emnrd.nm.gov Fee Amount: \$0.00

Edit Submission Contact Details **3a**

Submission Contact Details

- The initial contact details for submissions are prefilled on creation from your login account information.
- Your operator administrator can assist you in changing your details, if so desired and appropriate.
- If you change this email, it is your responsibility to confirm the email details for this submission is valid.
 - The system will use this email to deliver updates regarding this application's submission status.

First Name:

Last Name:

Email: ←

Update Details ←

FIGURE 6

SUBMITTING A RECLAMATION REPORT(C-141-V-Reclamation)

4. Add the incident ID # from your Notice of Release (NOR) E-mail, C-141 Initial or from your records. Alternatively if in your NOR application you gave your release a custom site name you can also search by typing in the name into the box.

Application Details

Add Incident ID

4

Incident ID required for submission.

Submission Required ID

- Most of our forms have a single primary ID. If we identify more than one then this message/layout will change.
- The type of ID required is determined by the application. Currently ID is used to determine the placement in imaging.
- If you do not have an ID that is being requested, you could try any of the following:
 - review the available forms, instructions and help pages to determine if an initial form was not filed yet;
 - review the structures for which your operator is responsible;
 - use our public search pages to determine the appropriate ID;
 - contact the department for further instructions.

Incident ID

TL Sa

[nAPP2330760406] TL San Andres #5 Tank Overflow

Add Incident ID

The Oil Conservation Division (OCD) has accepted the application, Application ID: 300360 (Testing Only)

ocdonline, emnrd, EMNRD
To: Smith, Cory, EMNRD

This is an email from the OCD Permitting development environment and has been sent during testing. Anything contained in this email is **NOT** an official decision/email of the OCD.

To whom it may concern (c/o Testy McTesterson for BLUE SKY NM, INC.),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2330760406, with the following conditions:

- When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.

Please reference nAPP2330760406, on all subsequent C-141 submissions and communications regarding the remediation of this release.

NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

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

FIGURE 6

SUBMITTING A RECLAMATION REPORT(C-141-V-Reclamation)

Once you have entered a valid incident number the applications will populate all of the C-141 questions. You may notice that the questions are identical to the Initial/Remediation Plans and Remediation Closure C-141 and that some of the questions will already have answers in them. These answers are populated from the **APPROVED** NOR/C-141 applications that were submitted in Figure 1/2/3/5. This functionality works for all C-141 submissions allowing the User to correct/validate data provided to the OCD with each submission. Pre-populated answers only works with approved data therefor any answers provided in an application that is Under OCD Review or that was Rejected will be required to be reentered for each submission until the questions are in an approved application. Please Note that if the User changes answers to previously approved questions they will also have to include updated attachments for that section.

Example: The User answered the Requesting Remediation Plan Approval with this submission in the C-141 Initial (Figure 1) as “No”. This answer signaled to OCD Permitting that the C-141 Application was an Initial C-141. Now that the User wants to submit a Remediation plan for approval they need to change the answer to this question to “Yes”

C-141 Initial Application

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

- Requesting a remediation plan approval with this submission [No](#) [Clear](#)

C-141 Remediation Plan Application: By Answer yes additional Remediation Plan questions pop up.

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

- Δ Requesting a remediation plan approval with this submission [Yes](#) [Clear](#)

Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.

- Have the lateral and vertical extents of contamination been fully delineated [+](#)
Required: Please provide an answer for all questions for the preceding group, Site Characterization (above).
- Was this release entirely contained within a lined containment area [+](#)

FIGURE 6

SUBMITTING A RECLAMATION REPORT(C-141-V-Reclamation)

5. Once the User selects Yes to Requesting a Reclamation Report approval the Reclamation Report questions will appear and are required to be answered.

Reclamation Report

Only answer the questions in this group if all reclamation steps have been completed.

Requesting a reclamation approval with this submission Yes Clear Reset

- What was the total reclamation surface area (in square feet) for this site
- What was the total volume of replacement material (in cubic yards) for this site

Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.

- Is the soil top layer complete and is it suitable material to establish vegetation
- On what (estimated) date will (or was) the reseeded commence(d)
- Summarize any additional reclamation activities not included by answers (above)

Required: Please provide an answer for all questions (above) in this group.

The reclamation report requires the following attachments.

Correction: Missing attachment tags [{ Reclamation Report, Scaled Site Map, Photographs, Reseeding Plan, Reclamation Activities. }]

The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.

This is a “New” Process to the OCD as historically this information was typically provided in a “Closure report” now identified as a Remediation Closure Report. Due to the Incident status changes OCD is now divesting this section to be a standalone report. Users who have releases in areas not reasonably needed for production or subsequent drilling operations will likely complete this section at the same time as requesting Remediation Closure. This is ideal as the Remediation Closure Request will have scaled site maps, sample locations, pictures and other attachments that are needed to verify that remediation/reclamation has been completed.

Responsible Parties must reclaim all releases once those areas are no longer reasonably needed for production or subsequent drilling operations. This condition is typically achieved when the well/facility is Plugged and Abandoned which could be a significant time from the Date of Discovery. Responsible Parties should review their approved Site Characterization and Remediation Plan for areas that were characterized and identified to be reclaimed.

A Reclamation Report as mentioned above is very similar to a Remediation Closure report and will need to include essentially the same information as required in 19.15.29.12 NMAC.

Please include the following information in your Reclamation report.

1. Executive Summary of the Reclamation Activities
2. Scaled Site Map
3. Sampling Locations & Laboratory Data
4. Photographs
5. Reseeding Plan to Include Seed Mix and Estimated Reseeding Dates.

FIGURE 6

SUBMITTING A RECLAMATION REPORT(C-141-V-Reclamation)

5. Continued

- What was the total reclamation surface area (in square feet) for this site
- What was the total volume of replacement material (in cubic yards) for this site

Users will provide the total area and volume of material that was reclaimed. Users should consult the estimated area/volume from their Site Characterization and Remediation Plan.

- Is the soil top layer complete and is it suitable material to establish vegetation

Pursuant to 19.15.29.13.D(1) the Reclamation soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.

- On what (estimated) date will (or was) the reseeding commence(d)
- Summarize any additional reclamation activities not included by answers (above)

Required: Please provide an answer for all questions (above) in this group.

The reclamation report requires the following attachments.

Correction: Missing attachment tags [{ Reclamation Report: Scaled Site Map, Photographs, Reseeding Plan, Reclamation Activities. }

The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.

Users will need to provide the best estimated date when Reseeding will commence. Users also have the opportunity to provide any additional information for the reclamation report.

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
△ Requesting a reclamation approval with this submission	Yes
△ What was the total reclamation surface area (in square feet) for this site	10650
△ What was the total volume of replacement material (in cubic yards) for this site	1600
<small>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with cl Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable</small>	
△ Is the soil top layer complete and is it suitable material to establish vegetation	Yes
△ On what (estimated) date will (or was) the reseeding commence(d)	03/01/2024
△ Summarize any additional reclamation activities not included by answers (above)	Reseeding will be initiated in the spring.

FIGURE 6

SUBMITTING A RECLAMATION REPORT(C-141-V-Reclamation)

6. When requesting Reclamation Approval the User must submit 1 or more attachments that include the below attachment tags. Users must review their attached document to ensure that all of the items being requested are in the attached file(s). Attachments/Tags will likely change in future development. To add an attachment scroll to the top of the application left click the Blue Add Attachment Button. Select the type of attachment you are uploading from the drop down list. Left click the Choose file button to select the file from your computer to upload. Once you have selected the file you wish to upload save the upload by left clicking the Upload selected Files. Repeat this process for multiple Attachments.

Summarize any additional reclamation activities not included by answers (above) +

Required: Please provide an answer for all questions (above) in this group.

The reclamation report requires the following attachments.

Correction: Missing attachment tags [{ Reclamation Report: Scaled Site Map, Photographs, Reseeding Plan, Reclamation Activities. }]

Supporting Document

- If your document requires your signature, please upload the signed document.
- Unless otherwise specified, the uploaded documents must be PDF format and should be scanned at 300 DPI.
- Name your files appropriately (e.g. AppHearing_CaseNo.pdf, Cont_CaseNo.pdf, C-133_CoNo.pdf).
- A file name can't contain any of the following characters: < > " / \ | ? * & % ' .

Method of submission

Upload Attachment(s): 6

Add Application Attachments

Attachment Type: Reclamation Report - Reclamation Activities ↓

Attachment: Choose File No file chosen

↓

Upload Selected Files

Upload Attachment(s):

Attachment Type (Description) Tag(s)	Original Uploaded File Name	
× Scaled Site Map, × Photographs, × Reseeding Plan, × Reclamation Activities Add Tag	TEST PDF.pdf (36.7 KB) Replace File	Delete
Files: 1 Total Size: 36.7 KB		



FIGURE 6

SUBMITTING A RECLAMATION REPORT(C-141-V-Reclamation)

7. Once all of the questions have been answered. The user should review the answers and then Sign/Certify the data for submission.

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

I hereby agree and sign off to the above statement


 Required  7


8. The User now must answer if they are requesting a Revegetation Report approval with this submission. If the user answers “no”, this submission will be classified as a Reclamation Report. If the User selects yes the application will be viewed as a Revegetation Report. Please be aware that if there is not an approved Initial C-141/Remediation Plan/Remediation Closure/Reclamation Report on file the submission will ALSO count as all of those types.

Please note that OCD does not approve partial applications in the event that the User submits multiple C-141 types and the application is rejected, all C-141 types will be rejected.

Revegetation Report

Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.

Requesting a restoration complete approval with this submission  8

 Required.

9. Review your C-141 application for accuracy and completeness. This is the last chance before submitting the document to the OCD to make any corrections to this data. Operators will have the ability to modify these questions/response on any subsequent C-141 submission. To submit the application to the OCD click the Make Payment button. You will be directed to a Third Party website to process payment.

Clicking the Delete button will clear the entire application and remove it from your application que.

Revegetation Report

Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.

Requesting a restoration complete approval with this submission [No](#)

Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party mu

 9

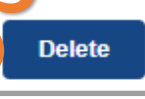
 

FIGURE 6

SUBMITTING A RECLAMATION REPORT(C-141-V-Reclamation)

Once the user has submitted the C-141 Reclamation Report to the OCD. The user email which was identified in step 3a will receive an email from emnrd.ocdonline@emnrd.nm.gov that is the receipt and proof of submission to the OCD. The receipt provides a PO Number that can be searched on the OCD Action Status Page.

PO Number:	4E8LQ-231115-C-1410
Payment Date:	11/15/2023
Payment Amount:	\$150.00
Payment Type:	Credit Card
Application Type:	Application for administrative approval of a release notification and corrective action
Fee Amount:	\$150.00
Application Status:	Under OCD Review
OGRID:	300825
First Name:	Test
Last Name:	Test
Email:	cory.smith@emnrd.nm.gov

At this state the Reclamation Report C-141 Application is Under OCD Review (Submitted) and the incident status will change to reflect the current status of the incident.

OCD Permitting

Home > Submissions > Releases > C-141

Status:

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
YGLL0-231020-C-1410	C-141	nAPP2226353908	Under OCD Review	\$150.00	Credit Card	10/20/2023	Ashley Maxwell	10/20/2023
GOD86-231020-C-1410	C-141	nAPP2225225752	Under OCD Review	\$150.00	Credit Card	10/20/2023	Ashley Maxwell	10/20/2023
4MA74-231023-C-1410	C-141	nAPP2225141826	Under OCD Review	\$150.00	Credit Card	10/23/2023	Ashley Maxwell	10/23/2023
TGG4W-231102-C-1410	C-141	nAPP2322646789	Under OCD Review	\$150.00	Credit Card	11/2/2023	Test Test	11/2/2023
IHWWC-231109-C-1410	C-141	nAPP2323758323	Under OCD Review	\$150.00	Credit Card	11/9/2023	Michael Buchanan	11/9/2023
D6D6A-231109-C-1410	C-141	nAPP2215863582	Under OCD Review	\$150.00	Credit Card	11/9/2023	Ashley Maxwell	11/9/2023
4E8LQ-231115-C-1410	C-141	nAPP2330760406	Under OCD Review	\$150.00	Credit Card	11/15/2023	Test Test	11/15/2023

NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572

General Incident Information

Site Name:	TL San Andres #5 Tank Overflow	Severity:	Major
Well:	[30-005-60572] TWIN LAKES SAN ANDRES UNIT #005	Surface Owner:	Private
Facility:		County:	Chaves (05)
Operator:	[300825] BLUE SKY NM, INC.		
Status:	Reclamation Report Received, Pending OCD Review		
Type:	Produced Water Release		
District:	Artesia		

FIGURE 6

SUBMITTING A RECLAMATION REPORT(C-141-V-Reclamation)

The Reclamation Report works exactly like the other applications where the User identified in Step 3a will receive email's with Conditions of Approvals or Reasons for Rejections. See Figure 5 for detailed examples of Approved/Rejected status. Below are the incident status associated to the Reclamation Report.

Example of Approved

NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572			
General Incident Information			
Site Name:	TL San Andres #5 Tank Overflow		
Well:	[30-005-60572] TWIN LAKES SAN ANDRES UNIT #005		
Facility:			
Operator:	[300825] BLUE SKY NM, INC.		
Status:	<u>Reclamation Report Approved, Pending submission of Re-vegetation Report from the operator</u>		
Type:	Produced Water Release	Severity:	Major
		Surface Owner:	Private
District:	Artesia	County:	Chaves (05)

Remember rejected Applications do not show a rejected status but will display the furthest along APPROVED application. In this case the last accept application was the Remediation Closure Report.

Example of Rejected

NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572			
General Incident Information			
Site Name:	TL San Andres #5 Tank Overflow		
Well:	[30-005-60572] TWIN LAKES SAN ANDRES UNIT #005		
Facility:			
Operator:	[300825] BLUE SKY NM, INC.		
Status:	<u>Remediation Closure Report Approved, Pending submission of Reclamation Report from the operator</u>		
Type:	Produced Water Release	Severity:	Major
		Surface Owner:	Private
District:	Artesia	County:	Chaves (05)

FIGURE 7

SUBMITTING A REVEGETATION REPORT(C-141-V-Revegetation)

Revegetation Reports can be submitted after the completion of the Reclamation Report. The approved Reclamation plan will have detailed the seed mixture, proposed seeding dates and any other requirements imposed by Federal, State, or Tribal requirements if applicable. At a minimum the OCD will consider Revegetation complete when all disturbed areas have a uniform vegetative cover, that has been established and reflects a life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds.

The revegetation report section of the C-141 is used to ensure the responsible party has met the Revegetation conditions outlined in 19.15.29.13 NMAC.

To submit a Revegetation Report follow the directions below.

1. Left Click on the Submissions tab in the top right of the website.
2. Left Click on Releases and Select [C-141] Release Corrective Action (\$150 fee required)

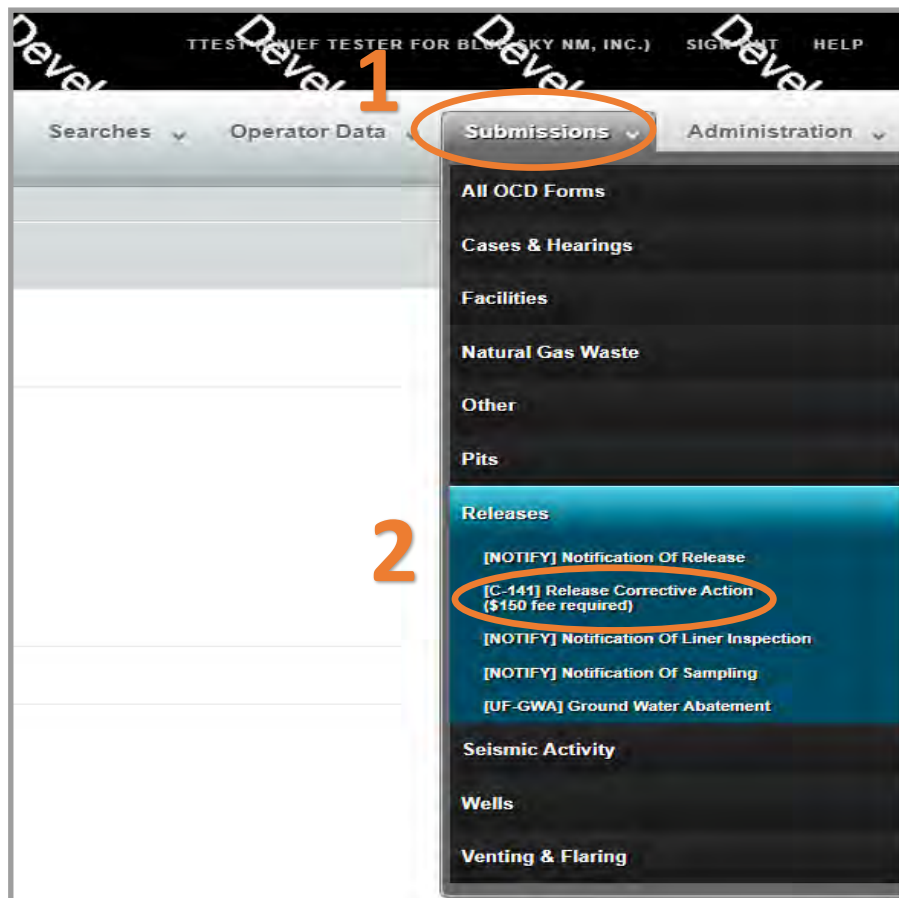


FIGURE 7

SUBMITTING A REVEGETATION REPORT(C-141-V-Revegetation)

On this Permitting page Users can review the status of all previous submitted C-141 Applications for their current OGRID . The user can also resume working on a previous draft version of the application by left clicking on the PO Number hyperlink. Applications types that are under OCD Review or have been Approved/ Rejected cannot be modified.

3. To create a new C-141 Application scroll down and left click on the New C-141 Application button.

The screenshot shows the 'OCD Permitting' interface. At the top, there is a breadcrumb trail: Home > Submissions > Releases > C-141. Below this, a 'Status:' dropdown menu is set to 'All'. An orange arrow points to this dropdown. The main content is a table with 9 columns: PO Number, Type, ID, Status, Fee Amount, Payment Type, Created, Submitter *, and Modified. The table lists 17 C-141 applications. An orange arrow points to the second row, which is a 'Draft Application' with PO Number [OY3LL-230808-C-1410](#). At the bottom left, a blue button labeled 'New C-141 Application' is circled in orange. A large orange number '3' is positioned to the right of the button.

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
B3TGL-221103-C-1410	C-141	nAPP2230057252	Under OCD Review	\$150.00	Credit Card	11/3/2022	Cory Smith	10/13/2023
OY3LL-230808-C-1410	C-141		Draft Application	\$150.00		6/8/2023	Cory Smith	6/8/2023
HBG3L-230708-C-1410	C-141	nAPP2318747496	Under OCD Review	\$150.00	Credit Card	7/6/2023	Cory Smith	7/6/2023
ER814-230713-C-1410	C-141		Draft Application	\$150.00		7/13/2023	Cory Smith	7/13/2023
D3C79-230713-C-1410	C-141	nAPP2318639832	Under OCD Review	\$150.00	Credit Card	7/13/2023	Cory Smith	7/13/2023
4AANL-230728-C-1410	C-141		Draft Application	\$150.00		7/26/2023	Cory Smith	7/26/2023
SJFLR-230728-C-1410	C-141		Draft Application	\$150.00		7/26/2023	Cory Smith	7/26/2023
KAXD9-230727-C-1410	C-141		Draft Application	\$150.00		7/27/2023	Cory Smith	7/27/2023
67UV4-230728-C-1410	C-141	nAPP2318747496	Draft Application	\$150.00		7/28/2023	Cory Smith	7/28/2023
B2Q4A-230728-C-1410	C-141	nAPP2320953386	Draft Application	\$150.00		7/28/2023	Cory Smith	7/28/2023
1XJ5S-230731-C-1410	C-141	nAPP2320953386	Draft Application	\$150.00		7/31/2023	Cory Smith	7/31/2023
83ALM-230803-C-1410	C-141	nAPP2320953386	Draft Application	\$150.00		8/3/2023	Cory Smith	8/3/2023
KGSLS-230810-C-1410	C-141	nAPP2320953386	Under OCD Review	\$150.00	Credit Card	8/10/2023	Cory Smith	8/10/2023
RHFAE-230810-C-1410	C-141	nAPP2320953386	Under OCD Review	\$150.00	Credit Card	8/10/2023	Cory Smith	8/23/2023
RHKBD-230825-C-1410	C-141	nAPP2323731968	Under OCD Review	\$150.00	Credit Card	8/25/2023	Cory Smith	8/25/2023

3

New C-141 Application

FIGURE 7

SUBMITTING A REVEGETATION REPORT(C-141-V-Revegetation)

3a. OCD Permitting general functions will display any errors in the orange ribbon band at the top of your screen and inline while working through the applications.

The Submissions Contact Application, Fee Payment section of the C-141 is automatically filled out based upon the Users default contact information. The contact E-mail used in this section is where any approvals/rejections will be sent too. In the even that you are submitting this on behalf of another member of your Organization you may edit the contact information by clicking on the edit submissions contact details button

Submit Non-Fee [NOTIFY] Notification Of Release (NOR)

Submission Contact, Application, Fee and Payment Details

First Name: Test Application Status: Draft Application
Last Name: Test • Please call (505) 476-3441 or email ocd.fees@state.nm.us for support.
Email: cory.smith@emnrd.nm.gov Fee Amount: \$0.00

Edit Submission Contact Details **3a**

Submission Contact Details

- The initial contact details for submissions are prefilled on creation from your login account information.
- Your operator administrator can assist you in changing your details, if so desired and appropriate.
- If you change this email, it is your responsibility to confirm the email details for this submission is valid.
 - The system will use this email to deliver updates regarding this application's submission status.

First Name:

Last Name:

Email: ←

Update Details ←

FIGURE 7

SUBMITTING A REVEGETATION REPORT(C-141-V-Revegetation)

4. Add the incident ID # from your Notice of Release (NOR) E-mail, C-141 Initial or from your records. Alternatively if in your NOR application you gave your release a custom site name you can also search by typing in the name into the box.

Application Details

Add Incident ID

4

Incident ID required for submission.

Submission Required ID

- Most of our forms have a single primary ID. If we identify more than one then this message/layout will change.
- The type of ID required is determined by the application. Currently ID is used to determine the placement in imaging.
- If you do not have an ID that is being requested, you could try any of the following:
 - review the available forms, instructions and help pages to determine if an initial form was not filed yet;
 - review the structures for which your operator is responsible;
 - use our public search pages to determine the appropriate ID;
 - contact the department for further instructions.

Incident ID

[nAPP2330760406] TL San Andres #5 Tank Overflow

Add Incident ID

The Oil Conservation Division (OCD) has accepted the application, Application ID: 300360 (Testing Only)

ocdonline, emnrd, EMNRD
To: Smith, Cory, EMNRD

This is an email from the OCD Permitting development environment and has been sent during testing. Anything contained in this email is **NOT** an official decision/email of the OCD.

To whom it may concern (c/o Testy McTesterson for BLUE SKY NM, INC.),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2330760406, with the following conditions:

- When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.

Please reference nAPP2330760406, on all subsequent C-141 submissions and communications regarding the remediation of this release.

NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

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

FIGURE 7

SUBMITTING A REVEGETATION REPORT(C-141-V-Revegetation)

Once you have entered a valid incident number the applications will populate all of the C-141 questions. You may notice that the questions are identical to the Initial/Remediation Plans and Remediation Closure C-141 and that some of the questions will already have answers in them. These answers are populated from the **APPROVED** NOR/C-141 and the applications that were submitted in Figure 1/2/3/5/6. This functionality works for all C-141 submissions allowing the User to correct/validate data provided to the OCD with each submission. Pre-populated answers only works with approved data therefor any answers provided in an application that is Under OCD Review or that was Rejected will be required to be reentered for each submission until the questions are in an approved application. Please Note that if the User changes answers to previously approved questions they will also have to include updated attachments for that section.

Example: The User answered the Requesting Remediation Plan Approval with this submission in the C-141 Initial (Figure 1) as “No”. This answer signaled to OCD Permitting that the C-141 Application was an Initial C-141. Now that the User wants to submit a Remediation plan for approval they need to change the answer to this question to “Yes”

C-141 Initial Application

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

- Requesting a remediation plan approval with this submission [No](#) [Clear](#)

C-141 Remediation Plan Application: By Answer yes additional Remediation Plan questions pop up.

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

- Δ Requesting a remediation plan approval with this submission [Yes](#) [Clear](#)

Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.

- Have the lateral and vertical extents of contamination been fully delineated [+](#)
Required: Please provide an answer for all questions for the preceding group, Site Characterization (above).
- Was this release entirely contained within a lined containment area [+](#)

FIGURE 7

SUBMITTING A REVEGETATION REPORT(C-141-V-Revegetation)

5. To start a Revegetation Report the User selects Yes to Requesting a Restoration Complete approval the Revegetation Report questions will appear and are required to be answered.

Revegetation Report

Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.

△ Requesting a restoration complete approval with this submission Yes Clear Reset

- What was the total revegetation surface area (in square feet) for this site
- On what date did the reseedling commence
- On what date was the vegetative cover inspected
- What was the life form ratio compared to pre-disturbance levels
- What was the total percent plant cover compared to pre-disturbance levels
- Summarize any additional revegetation activities not included by answers (above)

Per Paragraph (2) of Subsection D of 19.15.29.13 NMAC the responsible party must reseed disturbed area in the first favorable growing season following closure of the site.

Required: Please provide an answer for all questions (above) in this group.

The revegetation report requires the following attachments.

Correction: Missing attachment tags [{ Revegetation Report: Scaled Site Map, Photographs, Revegetation Activities. }]

This is a “New” Process to the OCD as historically Revegetation information was very rarely provided to the OCD. Due to the Incident status changes OCD is now divesting this section to be a standalone report. Responsible Parties are required to Revegetate all unauthorized releases. Revegetation occurs in the first favorable growing season follow the completion of reclamation. As discussed in Figure 6 Reclamation time frames depend on if the release is in an area reasonably needed for production or subsequent drilling operations. For releases that are a cross between Areas reasonable need and not reasonable needed, responsible parties should Revegetate in the first favorable growing season following reclamation for each area.

The Revegetation Report will be submitted when ALL areas have met the requirements of 19.15.29.13 NMAC.




A Reclamation Report will need to include the following information.

1. Executive Summary of the Revegetation Activities
2. Scaled Site Map
3. Revegetation report/inspection –Detailing the life form ratio / no noxious weeds.
4. Photographs




FIGURE 7


SUBMITTING A REVEGETATION REPORT(C-141-V-Revegetation)

5. Continued


- What was the total revegetation surface area (in square feet) for this site 
Per Paragraph (2) of Subsection D of 19.15.29.13 NMAC the responsible party must reseed disturbed area in the first favorable growing season following closure of the site.
- On what date did the reseeded commence 
- On what date was the vegetative cover inspected 

Users will provide the total area that was revegetated. Users will also provide the date the reseeded was done and the date in which the “final” vegetative cover inspection was completed. The Revegetation report and photographs from this inspection should be include in your report.

- What was the life form ratio compared to pre-disturbance levels 
- What was the total percent plant cover compared to pre-disturbance levels 
- Summarize any additional revegetation activities not included by answers (above) 

 Required: Please provide an answer for all questions (above) in this group.

The revegetation report requires the following attachments.

 Correction: Missing attachment tags [{ Revegetation Report: Scaled Site Map, Photographs, Revegetation Activities. }]

Pursuant to 19.15.29.13.D(3) the Revegetation and therefore Restoration will be considered complete when uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds for all disturbed areas . Users will provide the OCD this information from their “Final” vegetation cover inspection

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Δ Requesting a restoration complete approval with this submission	Yes
Δ What was the total revegetation surface area (in square feet) for this site	1576
<i>Per Paragraph (2) of Subsection D of 19.15.29.13 NMAC the responsible party must reseed disturbed area in the first favorable growing season following closure of the site.</i>	
Δ On what date did the reseeded commence	11/01/2023
Δ On what date was the vegetative cover inspected	11/15/2023
Δ What was the life form ratio compared to pre-disturbance levels	59
Δ What was the total percent plant cover compared to pre-disturbance levels	90
Δ Summarize any additional revegetation activities not included by answers (above)	Revegetation has been completed and the site has been restored to its original state.

FIGURE 7

SUBMITTING A REVEGETATION REPORT(C-141-V-Revegetation)

6. When requestion Revegetation/Restoration Approval the User must submit 1 or more attachments that include the below attachment tags. Users must review their attached document to ensure that all of the items being requested are in the attached file(s). Attachments/Tags will likely change in future development. To add an attachment scroll to the top of the application left click the Blue Add Attachment Button. Select the type of attachment you are uploading from the drop down list. Left click the Choose file button to select the file from your computer to upload. Once you have selected the file you wish to upload save the upload by left clicking the Upload selected Files. Repeat this process for multiple Attachments.

Summarize any additional revegetation activities not included by answers (above)

Required: Please provide an answer for all questions (above) in this group.

The revegetation report requires the following attachments:

Correction: Missing attachment tags [{ Revegetation Report: Scaled Site Map, Photographs, Revegetation Activities. }]

Supporting Document

- If your document requires your signature, please upload the signed document.
- Unless otherwise specified, the uploaded documents must be PDF format and should be scanned at 300 DPI.
- Name your files appropriately (e.g. AppHearing_CaseNo.pdf, Cont_CaseNo.pdf, C-133_CoNo.pdf).
- A file name can't contain any of the following characters: < > : * / \ | ? * & % ' .

Method of submission

Upload Attachment(s): **6**

Add Application Attachments

Attachment Type: **Revegetation Report - Revegetation Activities**

Attachment: **Choose File** TEST PDF.pdf

Upload Selected Files

Attachment Type (Description) Tag(s)	Original Uploaded File Name	
✘ Scaled Site Map, ✘ Photographs, ✘ Revegetation Activities Add Tag	TEST PDF.pdf (36.7 KB) Replace File	Delete


FIGURE 7


SUBMITTING A REVEGETATION REPORT(C-141-V-Revegetation)

7. Once all of the questions have been answered. The user should review the answers and then Sign/Certify the data for submission.

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

I hereby agree and sign off to the above statement

 Required.

 7

9. Review your C-141 application for accuracy and completeness. This is the last chance before submitting the document to the OCD to make any corrections to this data. Operators will have the ability to modify these questions/response on any subsequent C-141 submission. To submit the application to the OCD click the Make Payment button. You will be directed to a Third Party website to process payment.

Clicking the Delete button will clear the entire application and remove it from your application que.

addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement

[Name: Test Test](#)
[Title: Chief Tester](#)
[Email: cory.smith@emnrd.nm.gov](mailto:cory.smith@emnrd.nm.gov)
[Date: 11/17/2023](#)

Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when

9

Make Payment **Delete**

FIGURE 7

SUBMITTING A REVEGETATION REPORT(C-141-V-Revegetation)

Once the user has submitted the C-141 Revegetation Report to the OCD. The user email which was identified in step 3a will receive an email from emnrd.ocdonline@emnrd.nm.gov that is the receipt and proof of submission to the OCD. The receipt provides a PO Number that can be searched on the OCD Action Status Page.

PO Number:	M70TQ-231117-C-1410
Payment Date:	11/17/2023
Payment Amount:	\$150.00
Payment Type:	Credit Card
Application Type:	Application for administrative approval of a release notification and corrective action
Fee Amount:	\$150.00
Application Status:	Under OCD Review
OGRID:	300825
First Name:	Test
Last Name:	Test
Email:	cory.smith@emnrd.nm.gov

At this state the Revegetation Report C-141 Application is Under OCD Review (Submitted) and the incident status will change to reflect the current status of the incident.

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
YGLL0-231020-C-1410	C-141	nAPP2226353908	Under OCD Review	\$150.00	Credit Card	10/20/2023	Ashley Maxwell	10/20/2023
GOD86-231020-C-1410	C-141	nAPP2225225752	Under OCD Review	\$150.00	Credit Card	10/20/2023	Ashley Maxwell	10/20/2023
4MA74-231023-C-1410	C-141	nAPP2225141826	Under OCD Review	\$150.00	Credit Card	10/23/2023	Ashley Maxwell	10/23/2023
TGG4W-231102-C-1410	C-141	nAPP2322646789	Under OCD Review	\$150.00	Credit Card	11/2/2023	Test Test	11/2/2023
IHWWC-231109-C-1410	C-141	nAPP2323758323	Under OCD Review	\$150.00	Credit Card	11/9/2023	Michael Buchanan	11/9/2023
D6D6A-231109-C-1410	C-141	nAPP2215863582	Under OCD Review	\$150.00	Credit Card	11/9/2023	Ashley Maxwell	11/9/2023
4E8LQ-231105-C-1410	C-141	nAPP2330760406	Under OCD Review	\$150.00	Credit Card	11/15/2023	Test Test	11/15/2023
M70TQ-231117-C-1410	C-141	nAPP2330760406	Under OCD Review	\$150.00	Credit Card	11/17/2023	Test Test	11/17/2023

NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572

General Incident Information

Site Name: TL San Andres #5 Tank Overflow
Well: [\[30-005-60572\]](#) TWIN LAKES SAN ANDRES UNIT #005
Facility:
Operator: [\[300825\]](#) BLUE SKY NM, INC.
Status: Re-vegetation Report Received, Pending OCD Review
Type: Produced Water Release
District: Artesia

Severity: Major
Surface Owner: Private
County: Chaves (05)

FIGURE 7

SUBMITTING A REVEGETATION REPORT(C-141-V-Revegetation)

The Revegetation Report works exactly like the other applications where the User identified in Step 3a will receive email's with Conditions of Approvals or Reasons for Rejections. See Figure 5 for detailed examples of Approved/Rejected status. Below are the incident status associated to the Revegetation Report.

This is the final C-141 once the Revegetation Report is approved Restoration is considered Complete.

Example of Approved

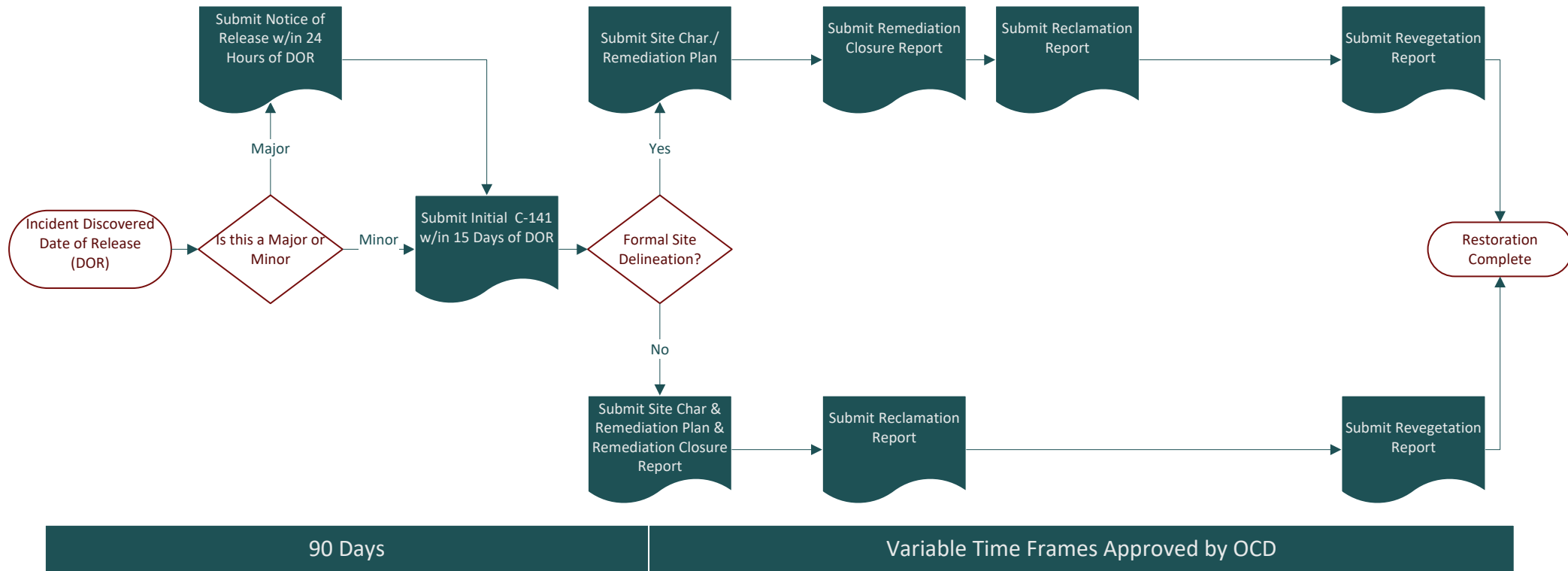
NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572			
General Incident Information			
Site Name:	TL San Andres #5 Tank Overflow		
Well:	[30-005-60572] TWIN LAKES SAN ANDRES UNIT #005		
Facility:			
Operator:	[300825] BLUE SKY NM, INC.		
Status:	Re-vegetation Report Approved, Restoration Complete		
Type:	Produced Water Release	Severity:	Major
		Surface Owner:	Private
District:	Artesia	County:	Chaves (05)

Remember rejected Applications do not show a rejected status but will display the furthest along APPROVED application. In this case the last accept application was the Remediation Closure Report.

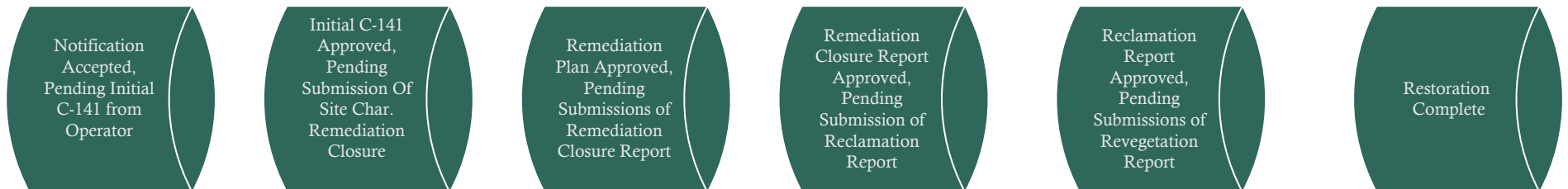
Example of Rejected

NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572			
General Incident Information			
Site Name:	TL San Andres #5 Tank Overflow		
Well:	[30-005-60572] TWIN LAKES SAN ANDRES UNIT #005		
Facility:			
Operator:	[300825] BLUE SKY NM, INC.		
Status:	Remediation Closure Report Approved, Pending submission of Reclamation Report from the operator		
Type:	Produced Water Release	Severity:	Major
		Surface Owner:	Private
District:	Artesia	County:	Chaves (05)

Simple Incident Time Line



Simplified Linear Incident Status



Major Release Notice Example

From: OCDOnline@emnrd.nm.gov <OCDOnline@emnrd.nm.gov>
Sent: Thursday, February 12, 2026 9:29 AM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Cc: Romero, Rosa, EMNRD <RosaM.Romero@emnrd.nm.gov>; Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Subject: OCD Notified of Major Release

To whom it may concern (c/o supervisory staff for the OCD Environmental Bureau),

The Oil Conservation Division (OCD) has been notified of a major release in Eddy county for District 2 that was reported to have occurred/discovered on 02/11/2026.

The release was submitted by [[371643](#)] SOLARIS WATER MIDSTREAM, LLC on a recently processed NOR application ([[553289](#)]).

The incident [[nAPP2604334149](#)] 1041 Booster Pump Release has been created and assigned for review by Shelly Wells.

To whom it may concern (c/o Matthew Green for SOLARIS WATER MIDSTREAM, LLC),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2604334149, with the following conditions:

- **When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.**

Please reference nAPP2604334149, on all subsequent C-141 submissions and communications regarding the remediation of this release.

NOTE: As of December 2019, NMOCDD has discontinued the use of the “RP” number.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@emnrd.nm.gov

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

C-141 Incident Details

nAPP2513556445 ROSS DRAW UNIT #043

General Incident Information

Well: [\[30-015-42017\]](#) ROSS DRAW UNIT #043

Facility:

Operator: [\[246289\]](#) WPX Energy Permian, LLC

Status: Active

Stage: Remediation Closure Report Approved, Pending submission of Reclamation Report from the operator

Type: Produced Water Release

Severity:

Incident Location: I-22-26S-30E 2260 FSL 640 FEL

Lat/Long: [32.0269012,-103.8626175 NAD83](#)

District: Artesia

County: Eddy (15)

Surface Owner: Federal

Severity Indicators

Resulted In Fire:

Resulted In Injury:

Endangered Public Health:

Will or Has Reached Watercourse:

Fresh Water Contamination:

Property Or Environmental Damage:

C-141 Incident Details

Severity Indicators

Resulted In Fire:

Endangered Public Health:

Fresh Water Contamination:

Resulted In Injury:

Will or Has Reached Watercourse:

Property Or Environmental Damage:

Event Dates

Date of Discovery: 05/14/2025

Initial C-141 Report Due: 5/29/2025

Remediation Closure Report Due: 04/27/2026

C-141 Incident Details

Incident Dates

19.15.29 NMAC - RELEASES

Type	Action	Received	Denied	Approved
Remediation Closure Report	[527035]	11/18/2025		01/26/2026
Sampling Notice	[512751]	10/07/2025		10/07/2025
Sampling Notice	[512750]	10/07/2025		10/07/2025
Sampling Notice	[508737]	09/24/2025		09/24/2025
Sampling Notice	[508736]	09/24/2025		09/24/2025
Sampling Notice	[508735]	09/24/2025		09/24/2025
Sampling Notice	[507064]	09/18/2025		09/18/2025
Sampling Notice	[507063]	09/18/2025		09/18/2025
Sampling Notice	[505666]	09/12/2025		09/12/2025
Sampling Notice	[505665]	09/12/2025		09/12/2025
Sampling Notice	[472080]	06/09/2025		06/09/2025
Sampling Notice	[470243]	06/03/2025		06/03/2025

Sampling Notice	[470026]	06/02/2025		06/02/2025
Sampling Notice	[470024]	06/02/2025		06/02/2025
Remediation Plan	[527035]	11/18/2025		01/26/2026
Site Characterization	[527035]	11/18/2025		01/26/2026
Initial C-141 Report	[465093]	05/20/2025		05/20/2025
Notification	[463941]	05/15/2025		05/15/2025

C-141 Incident Details

Incident Materials

Cause	Source	Material	Volume				Units
			Unk.	Released	Recovered	Lost	
Equipment Failure	Producing Well	Produced Water	<input type="checkbox"/>	50	40	10	BBL
Equipment Failure	Producing Well	Crude Oil	<input type="checkbox"/>	3	2	1	BBL
The concentration of dissolved chloride in the produced water >10,000 mg/l:						<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Cause of Release OR Additional Details provided for materials released: 1" nipple on wellhead broke at threads allowing fluids to be released to pad surface and small amount off pad.							

C-141 Incident Details

Incident Events

Date	Detail
01/26/2026	App ID 527035: Remediation closure report approved, release resolved.
01/26/2026	The (01/26/2026, C-141) application [527035] was accepted by OCD. The operator was emailed with details of this event.
01/26/2026	An application [527035] was submitted to OCD for review. It was submitted, indicating that it was an: [C-141] Application for administrative approval of a release notification and corrective action The operator was emailed confirmation of this event.
11/17/2025	The (01/26/2026, C-141) application [527035] was assigned to this incident.
11/12/2025	7-day time extension request is approved. Remediation Due date updated to November 17, 2025 Email submitted on 11/07/2025 via third party states, "Earth Systems R & R (ESRR) on behalf of WPX Energy Permian (WPX) is requesting a final extension to the current deadline for a report required in 19.15.29.12.B(1) NMAC at the Ross Draw Unit #043 (Site). Remediation and restoration activities have been completed, and a corrective action closure report is in final review by ESRR. WPX requests an additional 7 days to the November 10, 2025, deadline for the release associated with Incident Number nAPP2513556445, to allow additional time to submit the subsequent corrective action closure report. WPX anticipates submitting the closure report by November 17, 2025".
10/07/2025	The (10/07/2025, C-141N) application [512751] was assigned to this incident.
10/07/2025	The (10/07/2025, C-141N) application [512750] was assigned to this incident.
09/24/2025	The (09/24/2025, C-141N) application [508737] was assigned to this incident.
09/24/2025	The (09/24/2025, C-141N) application [508736] was assigned to this incident.
09/24/2025	The (09/24/2025, C-141N) application [508735] was assigned to this incident.
09/18/2025	The (09/18/2025, C-141N) application [507064] was assigned to this incident.
09/18/2025	The (09/18/2025, C-141N) application [507063] was assigned to this incident.

C-141 Incident Details

09/17/2025	Email received from operator/consultant. Sampling activities for September 18th and 19th, 2025 will need to be rescheduled due to a change in schedule by the WPX third-party contractor performing the remediation.
09/12/2025	The (09/12/2025, C-141N) application [505666] was assigned to this incident.
09/12/2025	The (09/12/2025, C-141N) application [505665] was assigned to this incident.
08/12/2025	Time extension requested has been granted for 90-days. Remediation Due date has been updated to November 10, 2025. Email submitted on 08/11/2025 via third party states, "A produced water and crude oil release was discovered on May 14, 2025, and was subsequently assigned Incident Number nAPP2431628896 and assessed by ESRR on May 18, 2025. On May 22, 2025, ESRR placed oil absorbent booms in off pad areas approved by the BLM to help mitigate impacts. On June 5 and 6, 2025, ESRR performed initial delineation activities via hand tools and oversaw initial excavation efforts on pad by WPX to help mitigate further impacts to off pad areas. ESRR, on behalf of WPX consulted with their approved qualified biologist as well as an archaeologist from Boone Archaeological Resource Consultants, LLC (Boone) for an assessment evaluation related to biological and cultural aspects. A botanical survey for special status plant species with potential to occur in the area [i.e., <i>Coryphantha robustispina</i> ssp. <i>scheeri</i> (Sheer's beehive cactus)] yielded negative findings. No species of concern were observed within 100-meters of the proposed work area. A negative cultural report was submitted to the BLM by Boone on June 13, 2025. Continued remediation activities are anticipated to begin end of August 2025. WPX requests an extension of the August 12, 2025, deadline for the release associated with Incident Number nAPP2513556445, to allow additional time for continued remediation and to allow ESRR to complete a subsequent corrective action closure report upon favorable confirmation laboratory analyticals".
06/09/2025	The (06/09/2025, C-141N) application [472080] was assigned to this incident.
06/03/2025	The (06/03/2025, C-141N) application [470243] was assigned to this incident.
06/02/2025	The (06/02/2025, C-141N) application [470026] was assigned to this incident.
06/02/2025	The (06/02/2025, C-141N) application [470024] was assigned to this incident.
05/20/2025	The (05/20/2025, C-141) application [465093] was accepted by OCD. The operator was emailed with details of this event.

C-141 Incident Details

05/20/2025	An application [465093] was submitted to OCD for review. It was submitted, indicating that it was an: [C-141] Application for administrative approval of a release notification and corrective action The operator was emailed confirmation of this event.
05/20/2025	The (05/20/2025, C-141) application [465093] was assigned to this incident.
05/15/2025	The (05/15/2025, NOR) application [463941] was assigned to this incident.
05/15/2025	New incident created by the operator, upon the submission of notification of release.
05/14/2025	Release discovered by the operator.

C-141 Incident Details

Incident Severity

Major release as defined by 19.15.29.7(A) NMAC?

Yes No

From paragraph A. "Major release" determine using:

(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

Incident Corrective Actions

Initial Response

- The source of the release has been stopped.
- The impacted area has been secured to protect human health and the environment.
- Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

C-141 Incident Details

Site Characterization

What is the shallowest depth to groundwater beneath the area affected by the release?	Between 100 and 500 (ft.) bgs
What method was used to determine the depth to ground water?	Attached Document
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Between 1000 (ft.) and ½ (mi.)
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Between 1 and 5 (mi.)
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Greater than 5 (mi.)
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Between 1 and 5 (mi.)
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Between 1 and 5 (mi.)
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Greater than 5 (mi.)
Are the lateral extents of the release within 300 feet of a wetland?	Between 1000 (ft.) and ½ (mi.)
Are the lateral extents of the release overlying a subsurface mine?	Greater than 5 (mi.)
Are the lateral extents of the release overlying an (non-karst) unstable area?	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology?	Medium
Are the lateral extents of the release within a 100-year floodplain?	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

C-141 Incident Details

Remediation Plan

Have the lateral and vertical extents of contamination been fully delineated?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Was this release entirely contained within a lined containment area?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Chloride ***	(EPA 300.0 or SM4500 Cl B)	23600 (mg/kg)
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	12300 (mg/kg)
GRO+DRO	(EPA SW-846 Method 8015M)	12300 (mg/kg)
BTEX	(EPA SW-846 Method 8021B or 8260B)	0 (mg/kg)
Benzene	(EPA SW-846 Method 8021B or 8260B)	0 (mg/kg)
On what estimated date will the remediation commence?		09/19/2025
On what date will (or did) the final sampling occur?		10/09/2025
On what date will (or was) the remediation complete(d)		10/21/2025
What is the estimated surface area (in square feet) that will be reclaimed?		30400 (sq ft)
What is the estimated volume (in cubic yards) that will be reclaimed?		5004 (cu yds)
What is the estimated surface area (in square feet) that will be remediated?		30400 (sq ft)
What is the estimated volume (in cubic yards) that will be remediated?		5004 (cu yds)

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

<input checked="" type="checkbox"/> (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)
Which OCD approved facility will be used for off-site disposal? IFEM0112334510 HALFWAY DISPOSAL AND LANDFILL
<input type="checkbox"/> OTHER (Non-listed remedial process)?

C-141 Incident Details

Remediation Closure Report

Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
What was the total surface area (in square feet) remediated?	30400 (sq ft)
What was the total volume (cubic yards) remediated?	5004 (cu yd)
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
What was the total surface area (in square feet) reclaimed?	30400 (sq ft)
What was the total volume (in cubic yards) reclaimed?	5004 (cu yd)
<input checked="" type="checkbox"/> OTHER (Non-listed remedial process)?	
Site Remediated	

No reclamation report data was found for this incident.

No re-vegetation report data was found for this incident.