C-141 Mistake

Dugan has a paperwork error to report. This was initially reported in the OCD portal. The initial C-141 was not filed within 2 weeks of discovery. There was a communication mistake within Dugan. A major release notification was submitted instead of a C-141 initial. Then it wasn't caught until after the spill was remediated. Dugan corrected the mistake by submitting the initial C-141 after the 2 week window. Dugan greatly regrets the error.

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2126438023
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Dugan Production Corp.	OGRID 006515
Contact Name Kevin Smaka	Contact Telephone 505-325-1821 x1049
Contact email Kevin.Smaka@duganproduction.com	Incident # *(assigned by OCD)* nAPP2126438023
Contact mailing address PO Box 420, Farmington, NM 87499	

Location of Release Source

Latitude 36.2608795 Longitude -107.9304199
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Calgary #88	Site Type Oil Well
Date Release Discovered 9/21/21	API# *(if applicable)* 30-045-26784

Unit Letter	Section	Township	Range	County
A	6	23N	10W	San Juan

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 250	Volume Recovered (bbls) 100
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release Flowline corrosion		

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2126438023
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes – Notice of Release submitted in NMOCD Permitting 9/21/21 (Action ID 50574)	

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:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Kevin Smaka Title: Engineer

Signature: Kevin Smaka Date: December 6, 2021

email: Kevin.Smaka@duganproduction.com Telephone: 505-325-1821 x1049

OCD Only

Received by: Ramona Marcus Date: 12/20/2021

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2126438023
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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

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

☒ Description of remediation activities

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

Printed Name: Kevin Smaka Title: Regulatory Engineer

Signature: Date: December 7, 2021

email: Kevin.Smaka@duganproduction.com Telephone: 505-325-1821 x1049

OCD Only

Received by: Ramona Marcus Date: 12/20/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Date:

Printed Name: Title:

Calgary #88 Hydrogeologic Report

The Calgary #88 is located on Federal land on the Chaco Slope area in San Juan County, New Mexico The region is characterized as a high arid mesa broken by numerous, deep cutting arroyos Mesa tops are dominated by tall stands of sage with sparse grass in the arroyos and low-lying areas

A records search of the NM Office of the State Engineer –iWATERS database was conducted on a three square mile area centered on the Calgary #88 location (Exhibit 2). No water wells were located within the search area The results of the search are shown on Exhibit 1.

The main source of stock water in the region is encountered in valley-fill deposits in existing arroyos at shallow depths of approximately 15 – 50 feet below the surface and stock tanks constructed on surface shale layers at the confluence and upper reaches of arroyos. The below grade tank is not located in an arroyo, the closest arroyo is 1,400 feet to the southeast (Exhibit 2)

The Nacimiento extends from the surface down to a depth of approximately 120 feet and is comprised of mudstone / shale with a trace of siltstone. The Nacimiento is not a good source of water in the area; the section does not have rocks capable of storing groundwater and has been breeched to a depth of 100 feet by arroyos 3/4-miles to the southeast and southwest.

The Ojo Alamo Sandstone extends from 120 - 200 feet and is comprised of a coarse grained sandstone inter-bedded with lenses of mudstone and occasional conglomeratic sandstone. If the Ojo Alamo contains groundwater, it would be in the lower sands below a depth of about 130 feet

The Kirtland Shale interval is from 200-650 feet in depth and is comprised entirely of mudstone / shale with a few thin siltstone layers inter-bedded with shale from 220-350 feet. These thin stringers of siltstone might contain very minimal amounts of ground water

The Fruitland Formation and Pictured Cliffs Sandstone from 950-1050 feet contain larger amounts of very poor quality ground water. Analysis of this water is available upon request from Dugan Production Corp

Excessive drilling depth, unpredictable variations in reservoir quality and water quality have discouraged the drilling of water wells in the in the subject area

Based on electric open hole logs, the iWATERS database and literature reviewed, very minor amounts of poor quality ground water might be found at a depth below 130 feet from the lowermost Ojo Alamo Sandstone. A deeper and larger source of poor quality groundwater occurs in the Fruitland Coals and Pictured Cliffs Sandstone below 950 feet.

This Hydrogeologic Report was prepared by Mr. Kurt Fagrelius, Geologist for Dugan Production. Mr Fagrelius has been employed as a geologist for Dugan for the past 31-years, received a MS in Geology from NMIMT in Socorro, NM and a BS in Geology from FLC in Durango, CO

Stone, W.J , Lyford, F P., Frenzel, P.F., Mizell, N H., and Padgett, E T , 1983, Hydrogeology and water resources of San Juan Basin, New Mexico· New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p

Brown, D.R., and Stone, W J., 1979. Hydrogeology of Aztec quadrangle, San Juan County, New Mexico New Mexico Bureau of Mines and Mineral Resources Hydrogeologic Sheet 1.

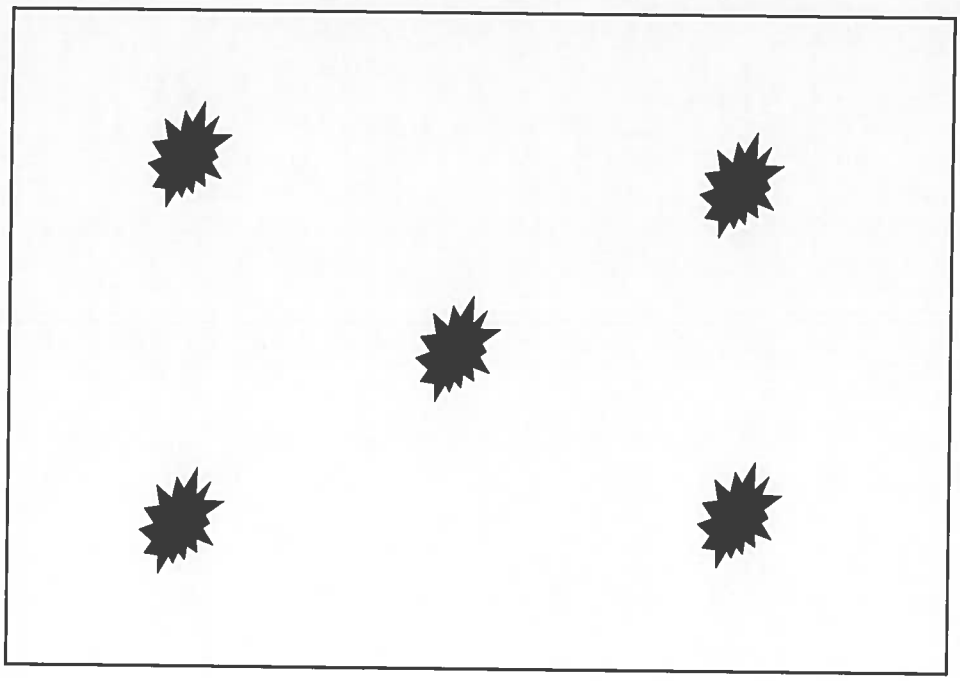
Levings. G W., Craigg, S D., Dam. W.L Kernodle. J M . and Thorn. C.R . 1990. Hydrogeology of the San Jose. Nacimiento, and Animas Formations in the San Juan Structural Basin. New Mexico, Colorado, Arizona and Utah· U S. Geological Survey, Atlas HA-720-A, Sheet 1 and 2

Thorn. C.R , Levings. G W , Craigg. S D., Dam. W.L , and Kernodle. J.M., 1990. Hydrogeology of the Ojo Alamo Sandstone in the San Juan Structural Basin. New Mexico, Colorado, Arizona and Utah U.S Geological Survey. Atlas HA-720-B. Sheet 1 and 2.

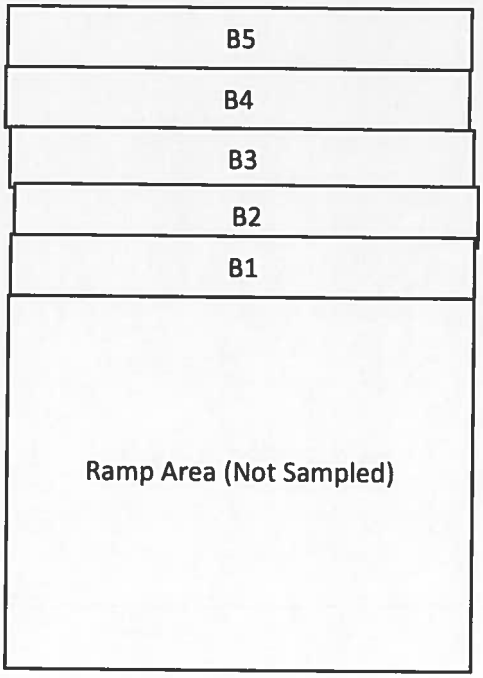
Sampling Diagram

The bottom and 3 faces of the excavation were sampled by grabbing dirt from 5 points. In total 15 samples were collected. 5 samples were gathered from the bottom and 10 samples were gathered from the walls.

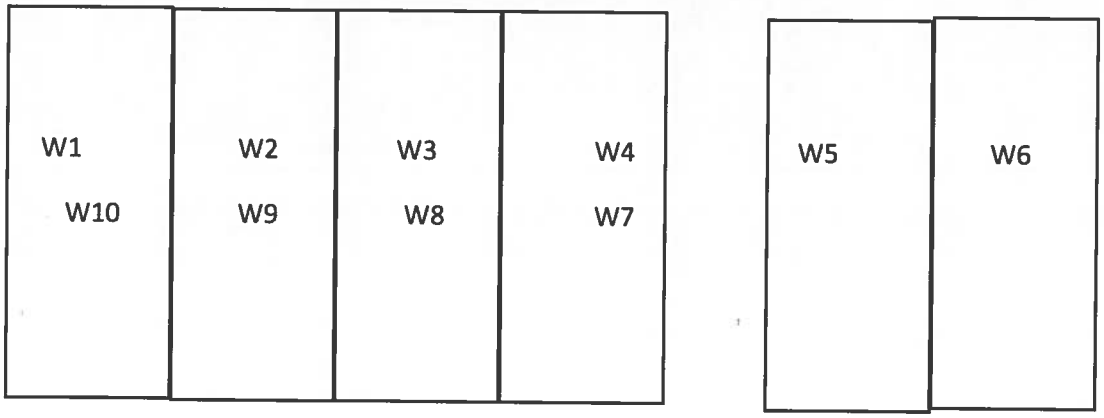
The below diagram indicates the pattern used for collection.



Hole Bottom Sampling Schematic



Side Wall Sampling Schematic



Samples W1-4 were collected on the south wall

Samples W7-10 were collected on the north wall

Samples W5-6 were collected on the west wall

No samples were collected from the east wall because the wall was excavated and hauled to the land-farm to grant safer access for excavation equipment.

Kevin Smaka

From: Kevin Smaka
Sent: Thursday, October 14, 2021 9:15 AM
To: 'Smith, Cory, EMNRD'; 'Adeloye, Abiodun A'; 'rjoyner@blm.gov'
Cc: Tyra Feil; Carlos Ramos; Marty Foutz; Luke Durham; Kelly Miller; Curtis Davis
Subject: Notice of Sampling

Dugan Production will be sampling soils for spill remediation confirmation at the following locations on Monday, 10/18/2021, 8:00 AM. The locations are the Bonnie and Ed and the Calgary #88.
We will begin at the Bonnie and Ed.

Calgary #88
API # 30-045-26784
A-06-23N-10W
660 FNL 660 FEL

Bonnie and Ed #1
30-045-25120
J-04-29N-15W
2090 FSL 1650 FEL

Please get with me should you have questions.

Kevin Smaka P.E.
Regulatory Engineer
Dugan Production Corp.
505-486-6207

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

No records found.

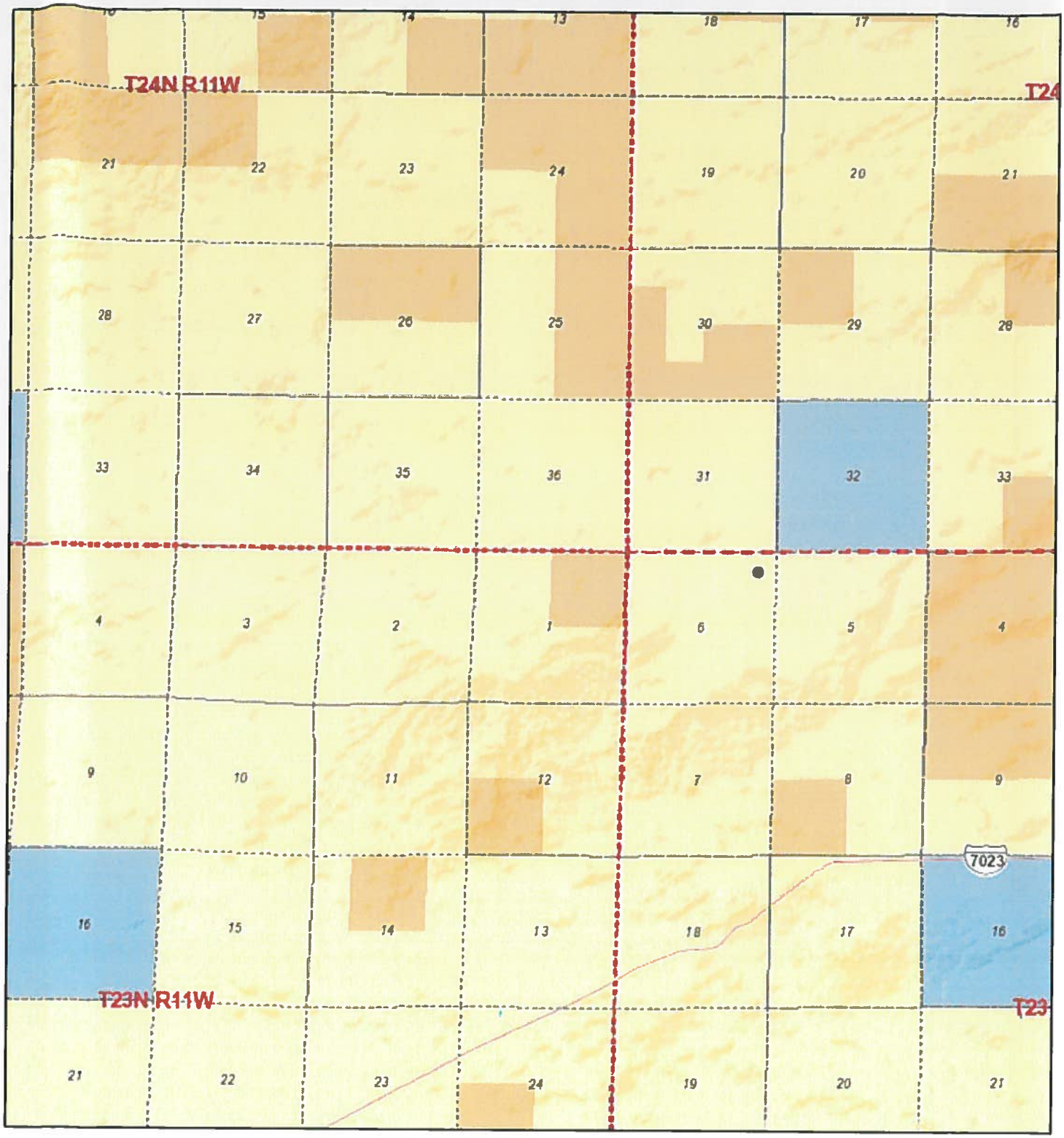
Basin/County Search:

Basin: San Juan **County:** San Juan

PLSS Search:

Section(s): 6 **Township:** 23N **Range:** 10W

Active Mines in New Mexico



11/30/2021, 9:20:29 PM

1:72,224

0 0.5 1 2 mi

0 0.75 1.5 3 km

Township / Range

Sections

Land Ownership

Bureau of Land Management

Bureau of Reclamation

Department of Agriculture

Department of Defense

Department of Energy

National Park Service

Private Land

State Game and Fish

State Land

State Parks

Tribal

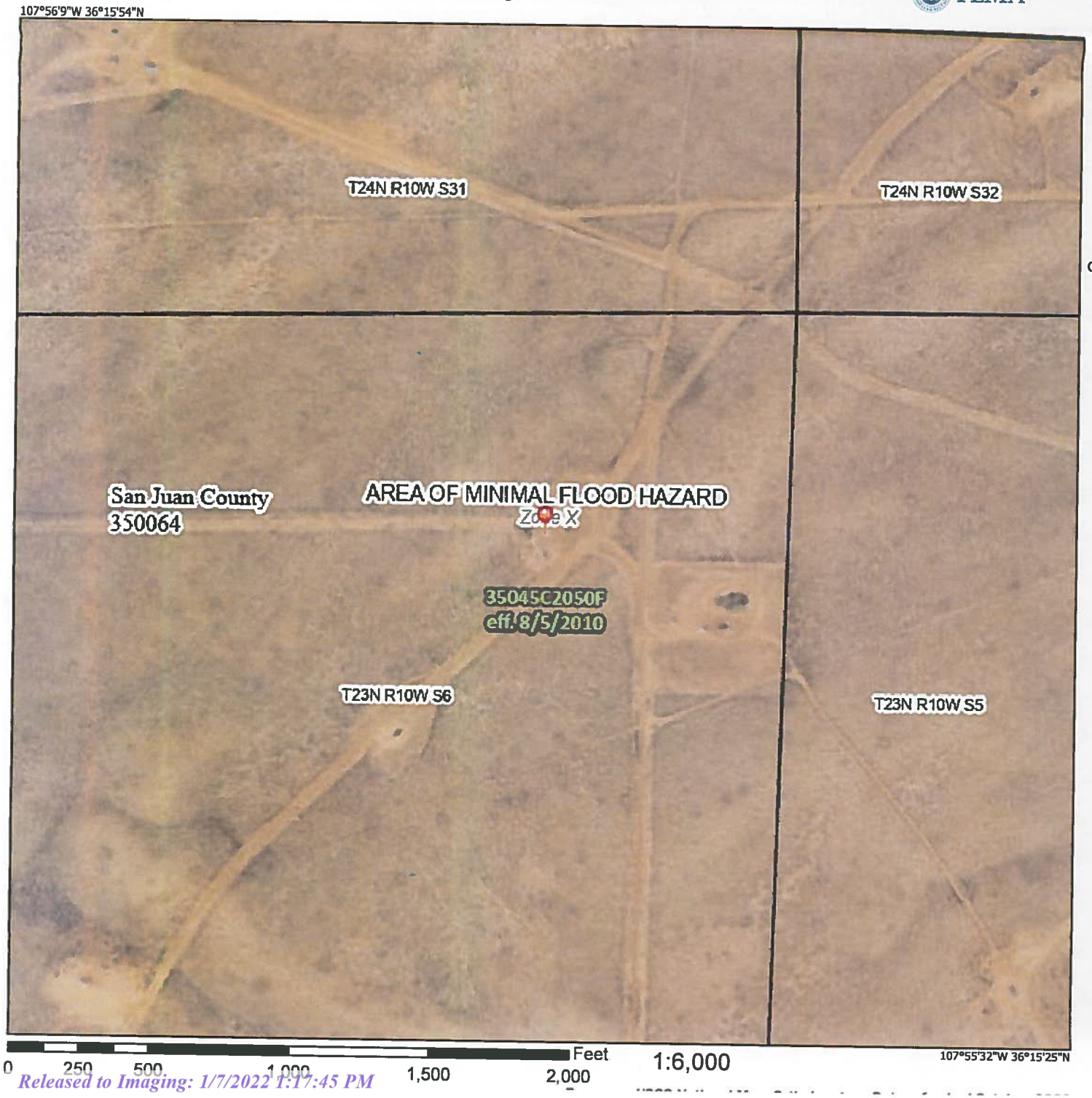
U.S. Bureau of Land Management - New Mexico State Office, Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

EMNRD MMD GIS Coordinator

NM Energy, Minerals and Natural Resources Department (http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47709897ce2795)

National Flood Hazard Layer FIRMette

FEMA



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) Zone A, V, A99
- With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee. See Notes. Zone X
- Area with Flood Risk due to Levee Zone D

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard Zone X
- Effective LOMRs
- Area of Undetermined Flood Hazard Zone

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

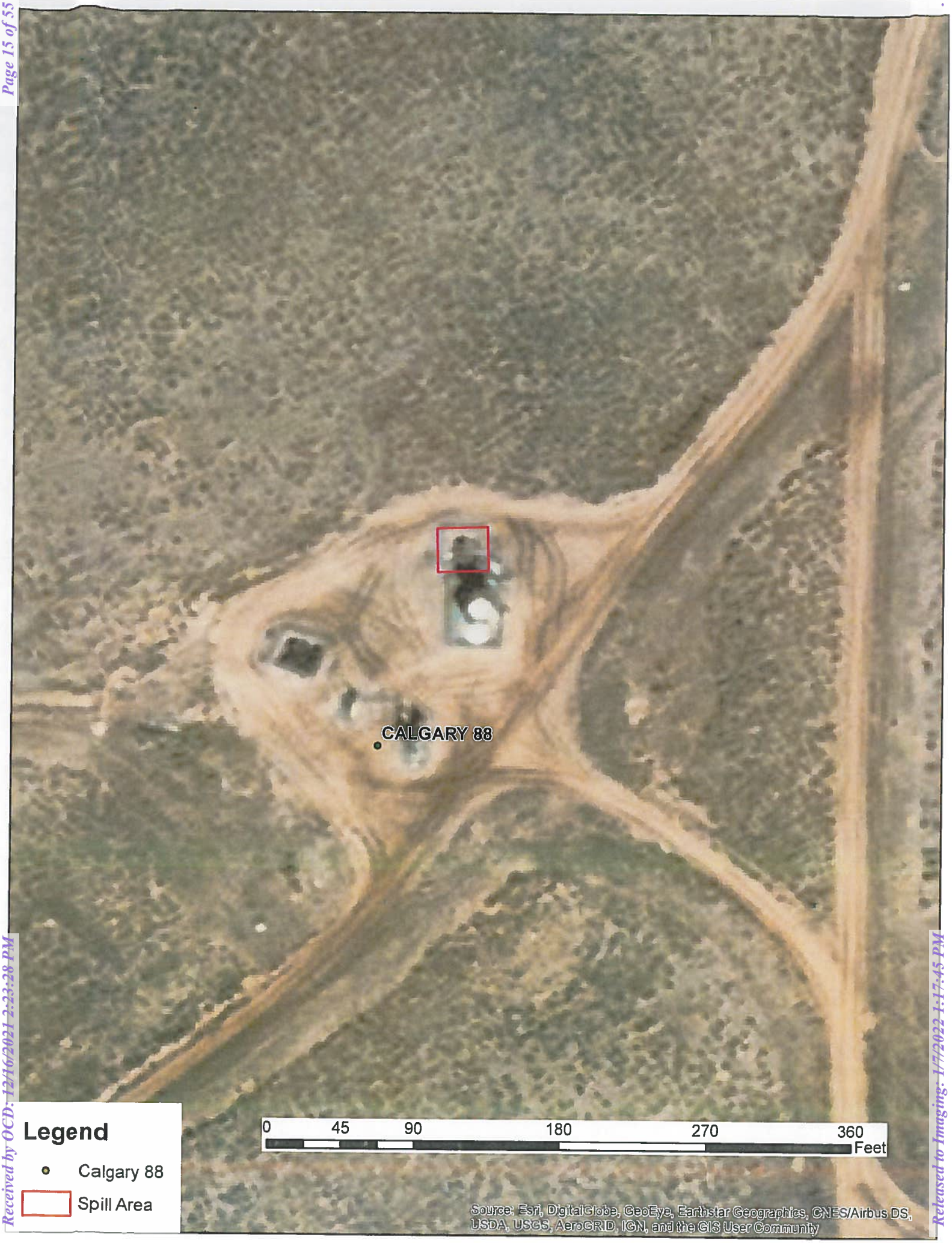
N

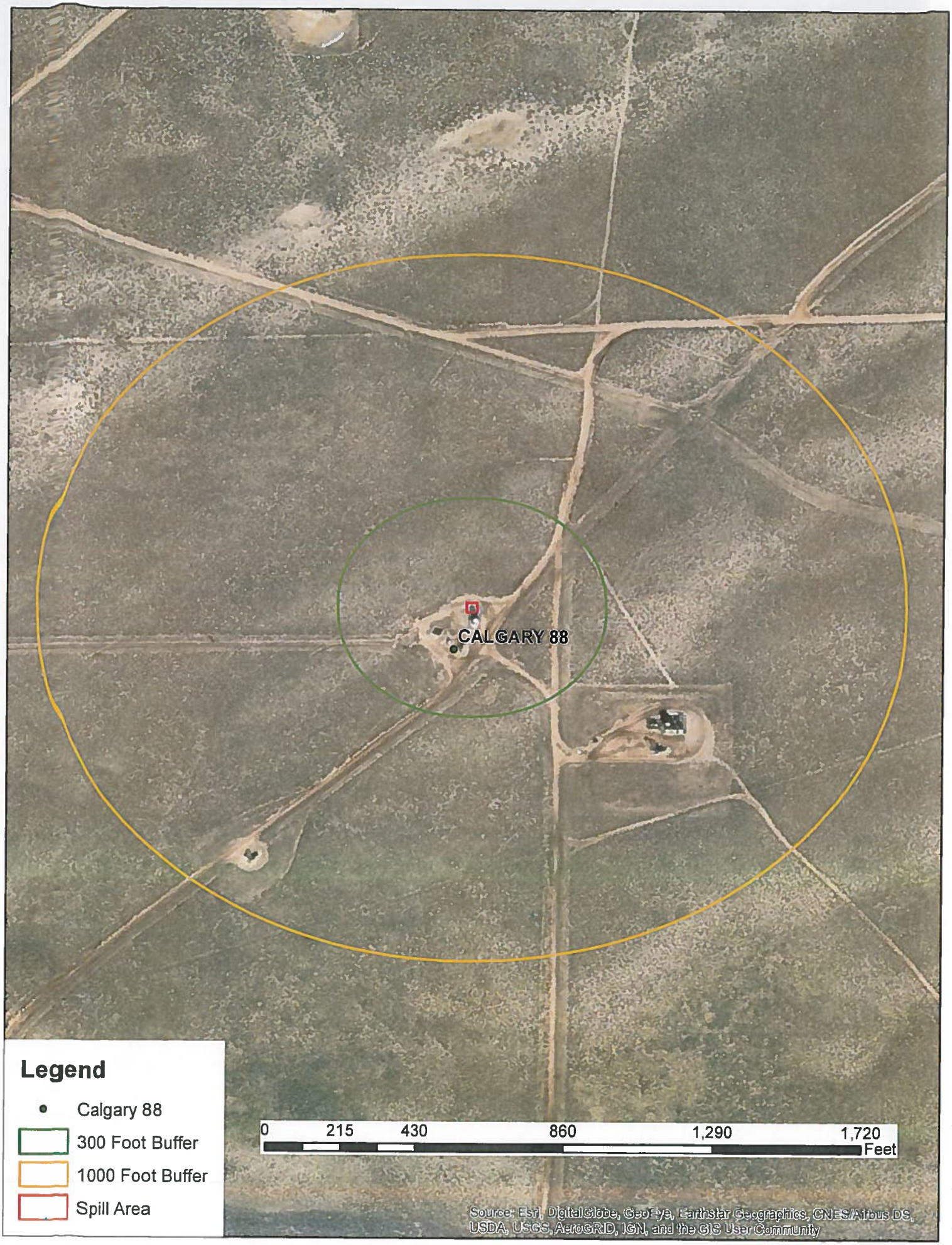
The pin displayed on the map is an approximate point selected by the user and does not represe an authoritative property location.

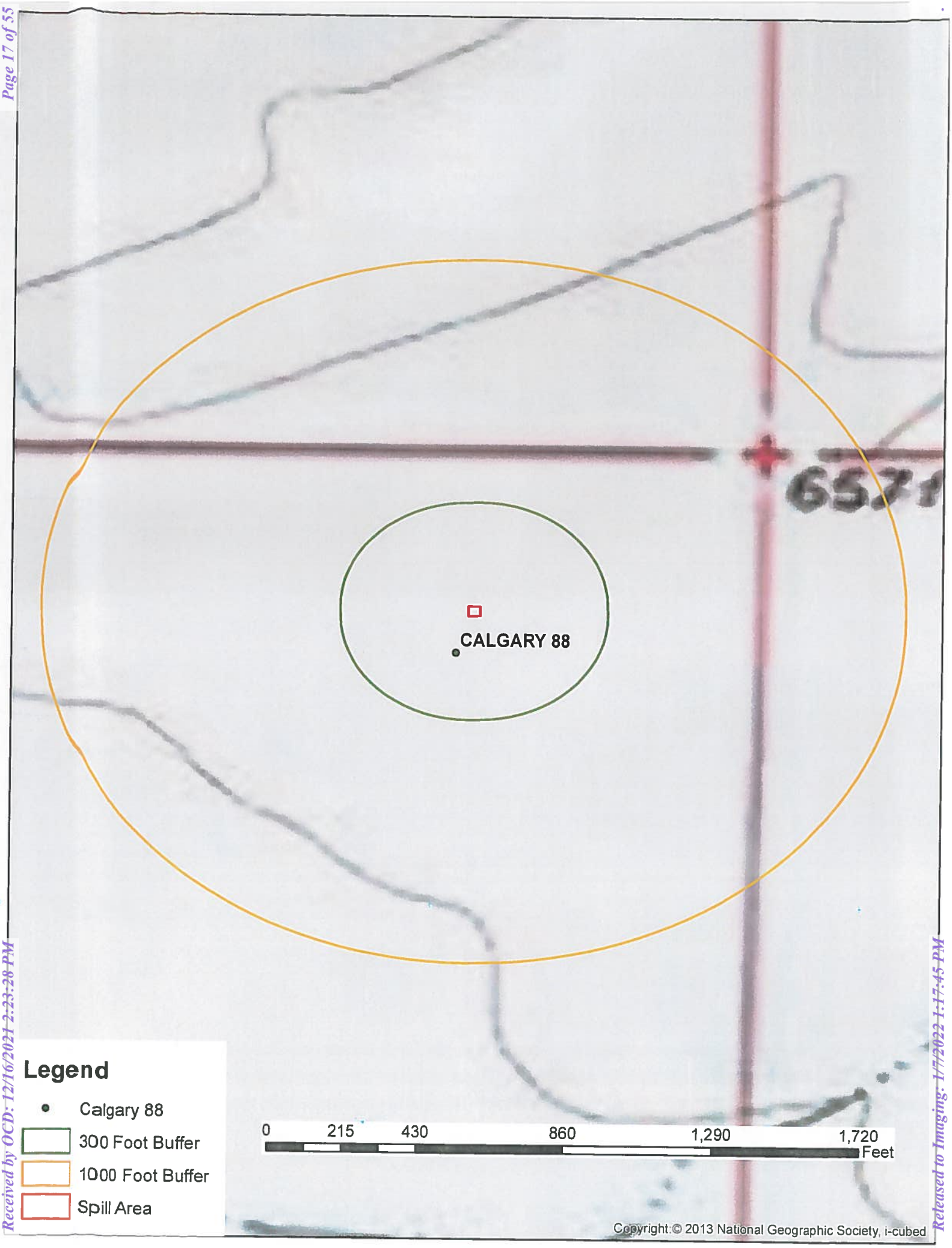
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/30/2021 at 11:18 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

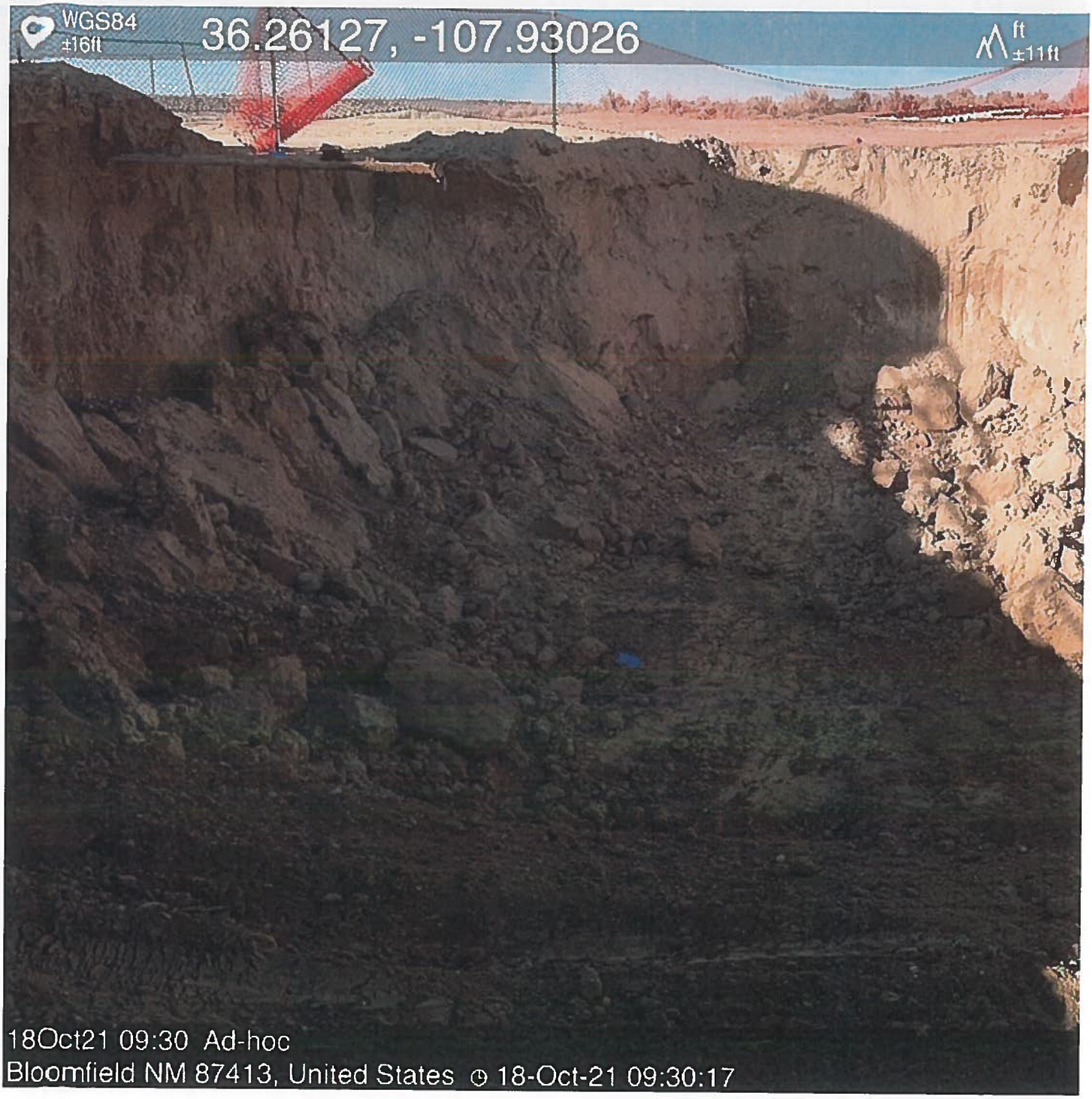


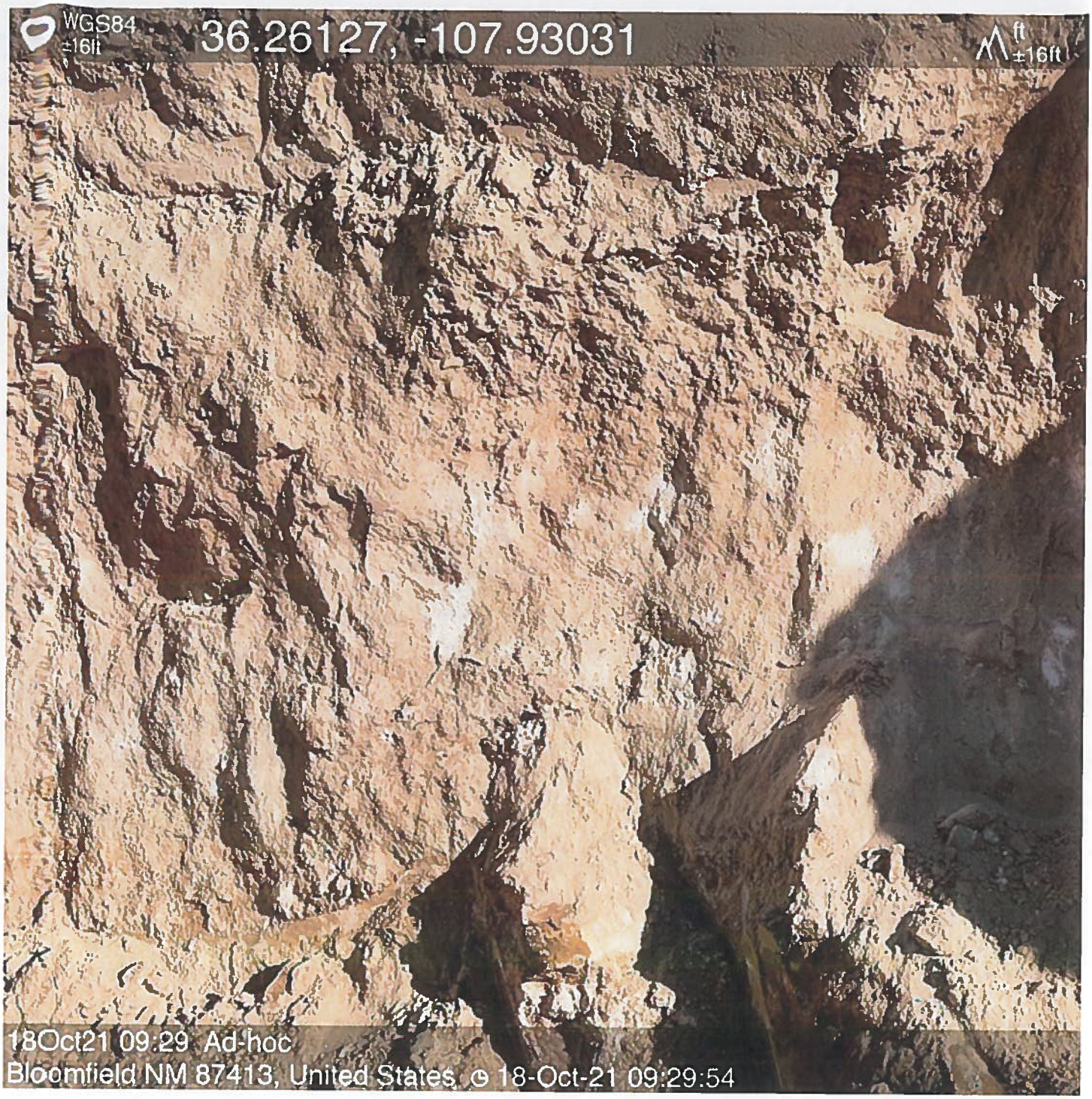


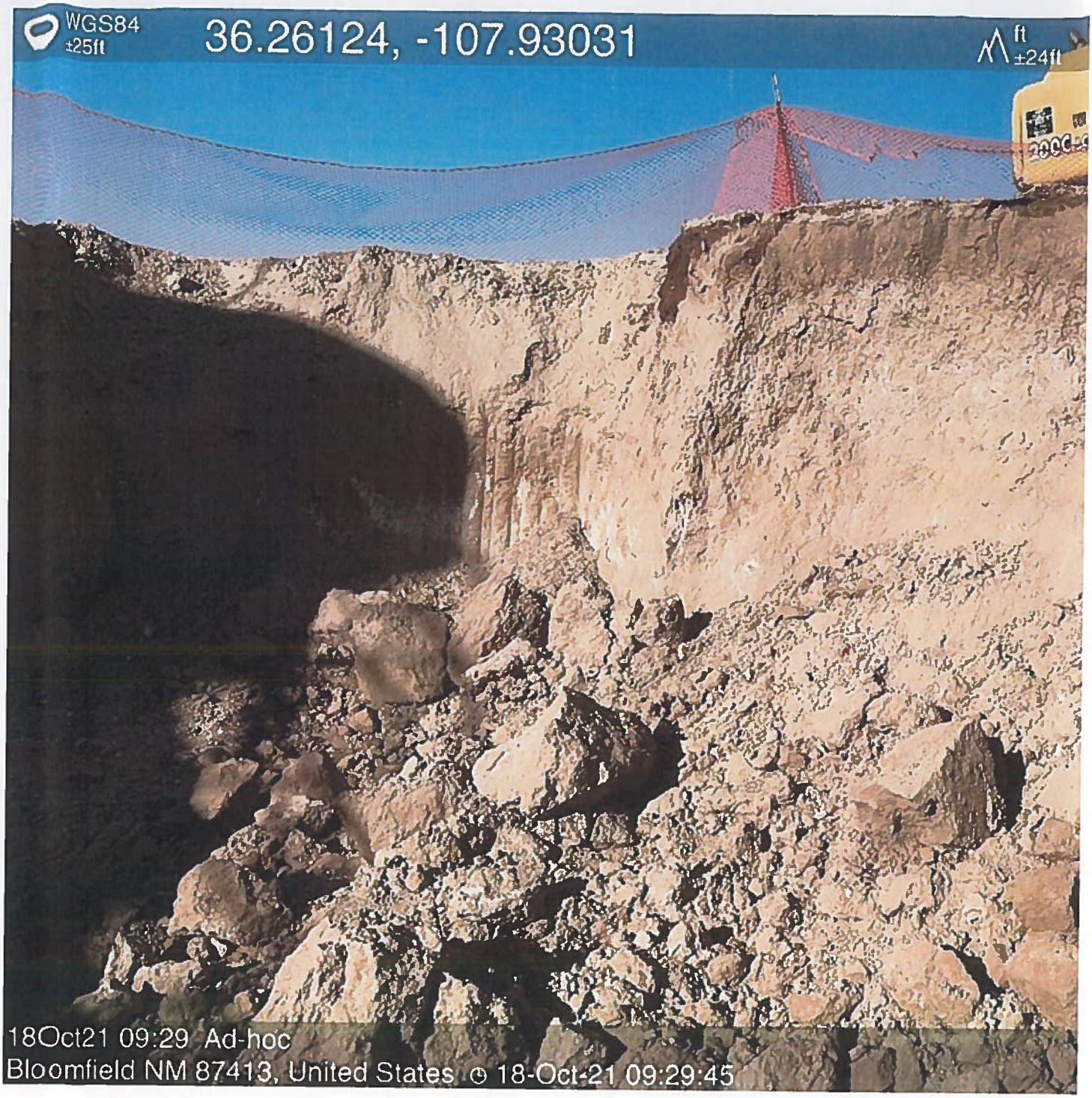


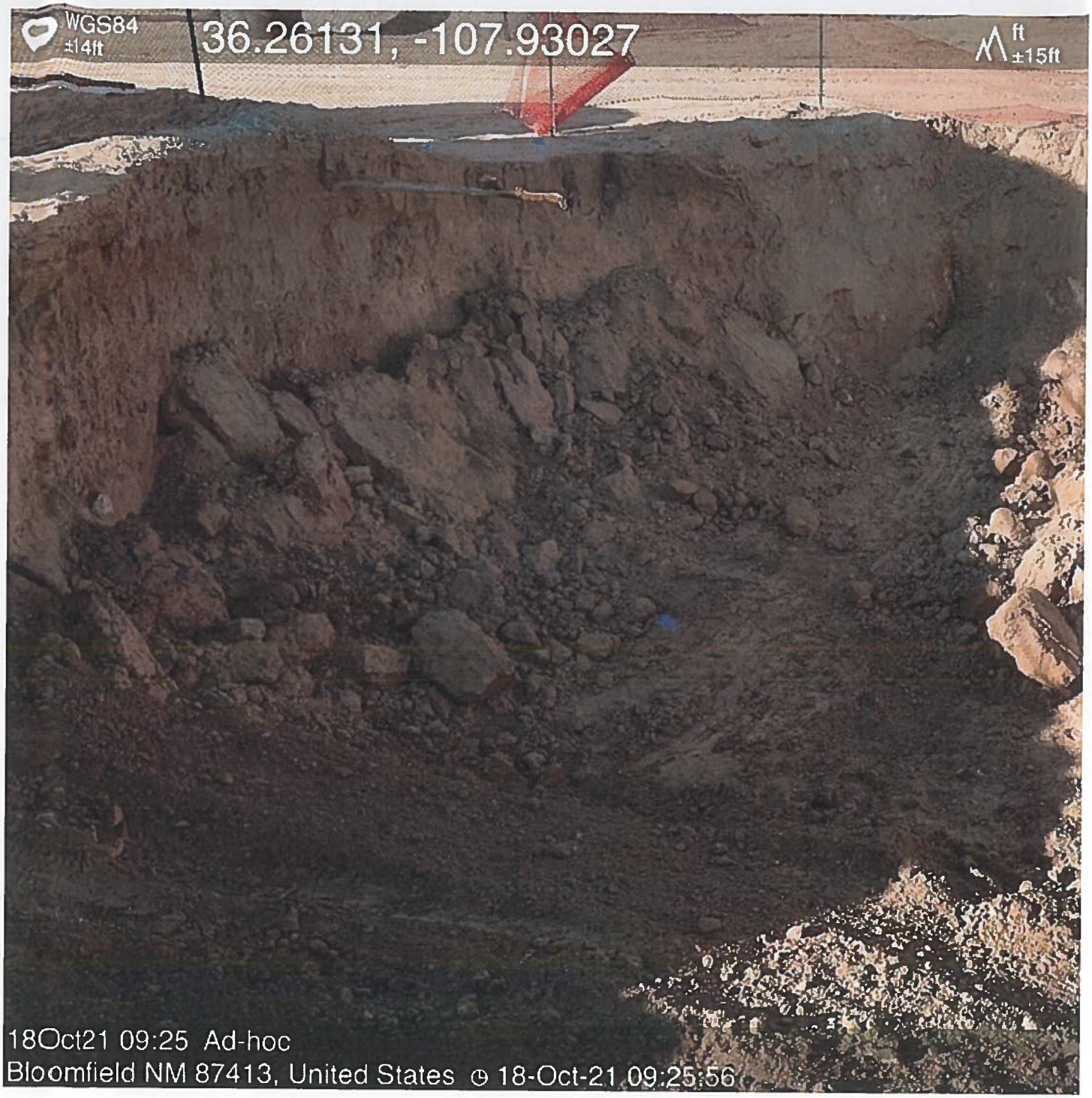
Kevin Smaka

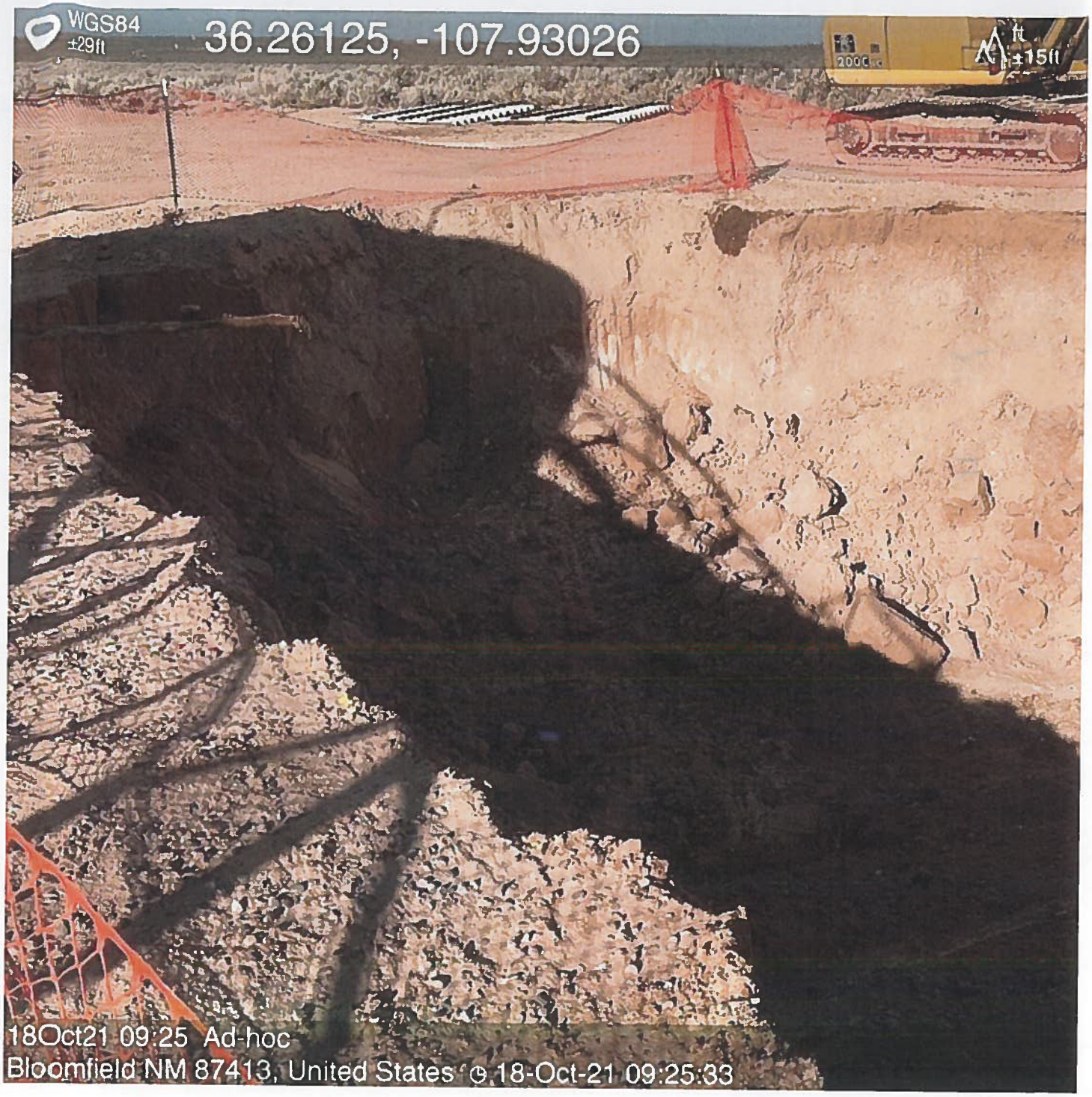
From: Kevin Smaka <kevin.smaka@icloud.com>
Sent: Tuesday, December 7, 2021 10:03 AM
To: Kevin Smaka
Subject: Calgary Remediation Pictures







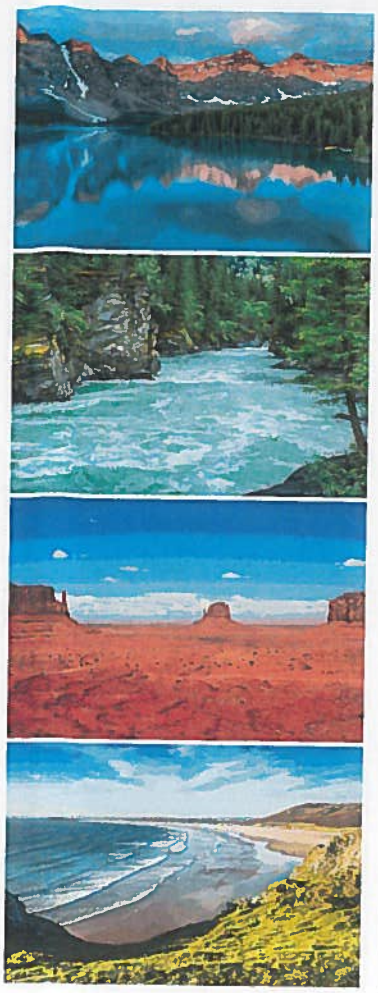




Sent from my iPhone

Report to:

Kevin Smaka



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Dugan Production Corp.

Project Name: Calgary

Work Order: E110093

Job Number: 06094-0177

Received: 10/18/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/26/21

Date Reported: 10/26/21

Kevin Smaka
PO Box 420
Farmington, NM 87499

Project Name: Calgary
Workorder: E110093
Date Received: 10/18/2021 4:27:00PM

Kevin Smaka,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/18/2021 4:27:00PM, under the Project Name: Calgary.

The analytical test results summarized in this report with the Project Name: Calgary apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
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Table of Contents

Table of Contents (continued)

Sample Summary

Dugan Production Corp.	Project Name:	Calgary	Reported:
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/26/21 18:44

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Calgary B1	E110093-01A	Soil	10/18/21	10/18/21	Glass Jar, 4 oz.
Calgary B2	E110093-02A	Soil	10/18/21	10/18/21	Glass Jar, 4 oz.
Calgary B3	E110093-03A	Soil	10/18/21	10/18/21	Glass Jar, 4 oz.
Calgary B4	E110093-04A	Soil	10/18/21	10/18/21	Glass Jar, 4 oz.
Calgary B5	E110093-05A	Soil	10/18/21	10/18/21	Glass Jar, 4 oz.
Calgary W1	E110093-06A	Soil	10/18/21	10/18/21	Glass Jar, 4 oz.
Calgary W2	E110093-07A	Soil	10/18/21	10/18/21	Glass Jar, 4 oz.
Calgary W3	E110093-08A	Soil	10/18/21	10/18/21	Glass Jar, 4 oz.
Calgary W4	E110093-09A	Soil	10/18/21	10/18/21	Glass Jar, 4 oz.
Calgary W5	E110093-10A	Soil	10/18/21	10/18/21	Glass Jar, 4 oz.
Calgary W6	E110093-11A	Soil	10/18/21	10/18/21	Glass Jar, 4 oz.
Calgary W7	E110093-12A	Soil	10/18/21	10/18/21	Glass Jar, 4 oz.
Calgary W8	E110093-13A	Soil	10/18/21	10/18/21	Glass Jar, 4 oz.
Calgary W9	E110093-14A	Soil	10/18/21	10/18/21	Glass Jar, 4 oz.
Calgary W10	E110093-15A	Soil	10/18/21	10/18/21	Glass Jar, 4 oz.

Sample Data

Dugan Production Corp.	Project Name:	Calgary	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/26/2021 6:44:58PM

Calgary B1

E110093-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Benzene	ND	0.0250	1	10/25/21	10/25/21	
Ethylbenzene	ND	0.0250	1	10/25/21	10/25/21	
Toluene	ND	0.0250	1	10/25/21	10/25/21	
o-Xylene	ND	0.0250	1	10/25/21	10/25/21	
p,m-Xylene	ND	0.0500	1	10/25/21	10/25/21	
Total Xylenes	ND	0.0250	1	10/25/21	10/25/21	
Surrogate: 4-Bromochlorobenzene-PID		*97.8 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/21	10/25/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.0 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2144003
Diesel Range Organics (C10-C28)	**53.1**	25.0	1	10/25/21	10/25/21	
Oil Range Organics (C28-C36)	**67.7**	50.0	1	10/25/21	10/25/21	
Surrogate: n-Nonane		*109 %*	*50-200*	*10/25/21*	*10/25/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2144006
Chloride	ND	20.0	1	10/25/21	10/26/21	

Sample Data

Dugan Production Corp.	Project Name:	Calgary	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/26/2021 6:44:58PM

Calgary B2

E110093-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Benzene	ND	0.0250	1	10/25/21	10/25/21	
Ethylbenzene	ND	0.0250	1	10/25/21	10/25/21	
Toluene	ND	0.0250	1	10/25/21	10/25/21	
o-Xylene	ND	0.0250	1	10/25/21	10/25/21	
p,m-Xylene	ND	0.0500	1	10/25/21	10/25/21	
Total Xylenes	ND	0.0250	1	10/25/21	10/25/21	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/21	10/25/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.0 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2144003
Diesel Range Organics (C10-C28)	**42.0**	25.0	1	10/25/21	10/25/21	
Oil Range Organics (C28-C36)	**59.3**	50.0	1	10/25/21	10/25/21	
Surrogate: n-Nonane		*108 %*	*50-200*	*10/25/21*	*10/25/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2144006
Chloride	ND	20.0	1	10/25/21	10/26/21	

Sample Data

Dugan Production Corp.	Project Name:	Calgary	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/26/2021 6:44:58PM

Calgary B3

E110093-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Benzene	ND	0.0250	1	10/25/21	10/25/21	
Ethylbenzene	ND	0.0250	1	10/25/21	10/25/21	
Toluene	ND	0.0250	1	10/25/21	10/25/21	
o-Xylene	ND	0.0250	1	10/25/21	10/25/21	
p,m-Xylene	ND	0.0500	1	10/25/21	10/25/21	
Total Xylenes	ND	0.0250	1	10/25/21	10/25/21	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/21	10/25/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.3 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2144003
Diesel Range Organics (C10-C28)	**48.8**	25.0	1	10/25/21	10/25/21	
Oil Range Organics (C28-C36)	**66.3**	50.0	1	10/25/21	10/25/21	
Surrogate: n-Nonane		*99.9 %*	*50-200*	*10/25/21*	*10/25/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2144006
Chloride	ND	20.0	1	10/25/21	10/26/21	

Sample Data

Dugan Production Corp.	Project Name:	Calgary	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/26/2021 6:44:58PM

Calgary B4

E110093-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Benzene	ND	0.0250	1	10/25/21	10/25/21	
Ethylbenzene	ND	0.0250	1	10/25/21	10/25/21	
Toluene	ND	0.0250	1	10/25/21	10/25/21	
o-Xylene	ND	0.0250	1	10/25/21	10/25/21	
p,m-Xylene	ND	0.0500	1	10/25/21	10/25/21	
Total Xylenes	ND	0.0250	1	10/25/21	10/25/21	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/21	10/25/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.0 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2144003
Diesel Range Organics (C10-C28)	**45.9**	25.0	1	10/25/21	10/25/21	
Oil Range Organics (C28-C36)	**62.1**	50.0	1	10/25/21	10/25/21	
Surrogate: n-Nonane		*103 %*	*50-200*	*10/25/21*	*10/25/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2144006
Chloride	ND	20.0	1	10/25/21	10/26/21	

Sample Data

Dugan Production Corp.	Project Name:	Calgary	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/26/2021 6:44:58PM

Calgary B5

E110093-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Benzene	ND	0.0250	1	10/25/21	10/25/21	
Ethylbenzene	ND	0.0250	1	10/25/21	10/25/21	
Toluene	ND	0.0250	1	10/25/21	10/25/21	
o-Xylene	ND	0.0250	1	10/25/21	10/25/21	
p,m-Xylene	ND	0.0500	1	10/25/21	10/25/21	
Total Xylenes	ND	0.0250	1	10/25/21	10/25/21	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/21	10/25/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.6 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2144003
Diesel Range Organics (C10-C28)	**58.5**	25.0	1	10/25/21	10/25/21	
Oil Range Organics (C28-C36)	**85.5**	50.0	1	10/25/21	10/25/21	
Surrogate: n-Nonane		*106 %*	*50-200*	*10/25/21*	*10/25/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2144006
Chloride	ND	20.0	1	10/25/21	10/26/21	

Sample Data

Dugan Production Corp.	Project Name:	Calgary	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/26/2021 6:44:58PM

Calgary W1

E110093-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Benzene	ND	0.0250	1	10/25/21	10/25/21	
Ethylbenzene	ND	0.0250	1	10/25/21	10/25/21	
Toluene	ND	0.0250	1	10/25/21	10/25/21	
o-Xylene	ND	0.0250	1	10/25/21	10/25/21	
p,m-Xylene	ND	0.0500	1	10/25/21	10/25/21	
Total Xylenes	ND	0.0250	1	10/25/21	10/25/21	
Surrogate: 4-Bromochlorobenzene-PID		*104 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/21	10/25/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2144003
Diesel Range Organics (C10-C28)	**379**	25.0	1	10/25/21	10/25/21	
Oil Range Organics (C28-C36)	**272**	50.0	1	10/25/21	10/25/21	
Surrogate: n-Nonane		*108 %*	*50-200*	*10/25/21*	*10/25/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2144006
Chloride	ND	20.0	1	10/25/21	10/26/21	

Sample Data

Dugan Production Corp.	Project Name:	Calgary	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/26/2021 6:44:58PM

Calgary W2

E110093-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Benzene	ND	0.0250	1	10/25/21	10/25/21	
Ethylbenzene	ND	0.0250	1	10/25/21	10/25/21	
Toluene	ND	0.0250	1	10/25/21	10/25/21	
o-Xylene	ND	0.0250	1	10/25/21	10/25/21	
p,m-Xylene	ND	0.0500	1	10/25/21	10/25/21	
Total Xylenes	ND	0.0250	1	10/25/21	10/25/21	
Surrogate: 4-Bromochlorobenzene-PID		*105 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/21	10/25/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.8 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2144003
Diesel Range Organics (C10-C28)	**463**	25.0	1	10/25/21	10/25/21	
Oil Range Organics (C28-C36)	**326**	50.0	1	10/25/21	10/25/21	
Surrogate: n-Nonane		*110 %*	*50-200*	*10/25/21*	*10/25/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2144006
Chloride	ND	20.0	1	10/25/21	10/26/21	

Sample Data

Dugan Production Corp.	Project Name:	Calgary	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/26/2021 6:44:58PM

Calgary W3

E110093-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Benzene	ND	0.0250	1	10/25/21	10/25/21	
Ethylbenzene	ND	0.0250	1	10/25/21	10/25/21	
Toluene	ND	0.0250	1	10/25/21	10/25/21	
o-Xylene	ND	0.0250	1	10/25/21	10/25/21	
p,m-Xylene	ND	0.0500	1	10/25/21	10/25/21	
Total Xylenes	ND	0.0250	1	10/25/21	10/25/21	
Surrogate: 4-Bromochlorobenzene-PID		*106 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/21	10/25/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.2 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2144003
Diesel Range Organics (C10-C28)	**313**	25.0	1	10/25/21	10/25/21	
Oil Range Organics (C28-C36)	**235**	50.0	1	10/25/21	10/25/21	
Surrogate: n-Nonane		*107 %*	*50-200*	*10/25/21*	*10/25/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2144006
Chloride	ND	20.0	1	10/25/21	10/26/21	

Sample Data

Dugan Production Corp.	Project Name:	Calgary	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/26/2021 6:44:58PM

Calgary W4

E110093-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Benzene	ND	0.0250	1	10/25/21	10/25/21	
Ethylbenzene	ND	0.0250	1	10/25/21	10/25/21	
Toluene	ND	0.0250	1	10/25/21	10/25/21	
o-Xylene	ND	0.0250	1	10/25/21	10/25/21	
p,m-Xylene	ND	0.0500	1	10/25/21	10/25/21	
Total Xylenes	ND	0.0250	1	10/25/21	10/25/21	
Surrogate: 4-Bromochlorobenzene-PID		*105 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/21	10/25/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.7 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2144003
Diesel Range Organics (C10-C28)	146	25.0	1	10/25/21	10/25/21	
Oil Range Organics (C28-C36)	173	50.0	1	10/25/21	10/25/21	
Surrogate: n-Nonane		*108 %*	*50-200*	*10/25/21*	*10/25/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2144006
Chloride	ND	20.0	1	10/25/21	10/26/21	

Sample Data

Dugan Production Corp.	Project Name:	Calgary	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/26/2021 6:44:58PM

Calgary W5

E110093-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Benzene	ND	0.0250	1	10/25/21	10/25/21	
Ethylbenzene	ND	0.0250	1	10/25/21	10/25/21	
Toluene	ND	0.0250	1	10/25/21	10/25/21	
o-Xylene	ND	0.0250	1	10/25/21	10/25/21	
p,m-Xylene	ND	0.0500	1	10/25/21	10/25/21	
Total Xylenes	ND	0.0250	1	10/25/21	10/25/21	
Surrogate: 4-Bromochlorobenzene-PID		*104 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/21	10/25/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.4 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2144003
Diesel Range Organics (C10-C28)	**151**	25.0	1	10/25/21	10/25/21	
Oil Range Organics (C28-C36)	**177**	50.0	1	10/25/21	10/25/21	
Surrogate: n-Nonane		*107 %*	*50-200*	*10/25/21*	*10/25/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2144006
Chloride	ND	20.0	1	10/25/21	10/26/21	

Sample Data

Dugan Production Corp.	Project Name:	Calgary	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/26/2021 6:44:58PM

Calgary W6

E110093-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Benzene	ND	0.0250	1	10/25/21	10/25/21	
Ethylbenzene	ND	0.0250	1	10/25/21	10/25/21	
Toluene	ND	0.0250	1	10/25/21	10/25/21	
o-Xylene	ND	0.0250	1	10/25/21	10/25/21	
p,m-Xylene	ND	0.0500	1	10/25/21	10/25/21	
Total Xylenes	ND	0.0250	1	10/25/21	10/25/21	
Surrogate: 4-Bromochlorobenzene-PID		*103 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/21	10/25/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.4 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2144003
Diesel Range Organics (C10-C28)	**58.4**	25.0	1	10/25/21	10/25/21	
Oil Range Organics (C28-C36)	**79.0**	50.0	1	10/25/21	10/25/21	
Surrogate: n-Nonane		*106 %*	*50-200*	*10/25/21*	*10/25/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2144006
Chloride	ND	20.0	1	10/25/21	10/26/21	

Sample Data

Dugan Production Corp.	Project Name:	Calgary	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/26/2021 6:44:58PM

Calgary W7

E110093-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Benzene	ND	0.0250	1	10/25/21	10/25/21	
Ethylbenzene	ND	0.0250	1	10/25/21	10/25/21	
Toluene	ND	0.0250	1	10/25/21	10/25/21	
o-Xylene	ND	0.0250	1	10/25/21	10/25/21	
p,m-Xylene	ND	0.0500	1	10/25/21	10/25/21	
Total Xylenes	ND	0.0250	1	10/25/21	10/25/21	
Surrogate: 4-Bromochlorobenzene-PID		*104 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/21	10/25/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.8 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2144003
Diesel Range Organics (C10-C28)	**63.9**	25.0	1	10/25/21	10/25/21	
Oil Range Organics (C28-C36)	**76.0**	50.0	1	10/25/21	10/25/21	
Surrogate: n-Nonane		*107 %*	*50-200*	*10/25/21*	*10/25/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2144006
Chloride	ND	20.0	1	10/25/21	10/26/21	

Sample Data

Dugan Production Corp.	Project Name:	Calgary	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/26/2021 6:44:58PM

Calgary W8

E110093-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Benzene	ND	0.0250	1	10/25/21	10/25/21	
Ethylbenzene	ND	0.0250	1	10/25/21	10/25/21	
Toluene	ND	0.0250	1	10/25/21	10/25/21	
o-Xylene	ND	0.0250	1	10/25/21	10/25/21	
p,m-Xylene	ND	0.0500	1	10/25/21	10/25/21	
Total Xylenes	ND	0.0250	1	10/25/21	10/25/21	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/21	10/25/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.7 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2144003
Diesel Range Organics (C10-C28)	**62.8**	25.0	1	10/25/21	10/25/21	
Oil Range Organics (C28-C36)	**76.9**	50.0	1	10/25/21	10/25/21	
Surrogate: n-Nonane		*109 %*	*50-200*	*10/25/21*	*10/25/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2144006
Chloride	ND	20.0	1	10/25/21	10/26/21	

Sample Data

Dugan Production Corp.	Project Name:	Calgary	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/26/2021 6:44:58PM

Calgary W9

E110093-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Benzene	ND	0.0250	1	10/25/21	10/25/21	
Ethylbenzene	ND	0.0250	1	10/25/21	10/25/21	
Toluene	ND	0.0250	1	10/25/21	10/25/21	
o-Xylene	ND	0.0250	1	10/25/21	10/25/21	
p,m-Xylene	ND	0.0500	1	10/25/21	10/25/21	
Total Xylenes	ND	0.0250	1	10/25/21	10/25/21	
Surrogate: 4-Bromochlorobenzene-PID		*103 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/21	10/25/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.8 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2144003
Diesel Range Organics (C10-C28)	**82.8**	25.0	1	10/25/21	10/25/21	
Oil Range Organics (C28-C36)	**107**	50.0	1	10/25/21	10/25/21	
Surrogate: n-Nonane		*106 %*	*50-200*	*10/25/21*	*10/25/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2144006
Chloride	ND	20.0	1	10/25/21	10/26/21	

Sample Data

Dugan Production Corp.	Project Name:	Calgary	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/26/2021 6:44:58PM

Calgary W10

E110093-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Benzene	ND	0.0250	1	10/25/21	10/25/21	
Ethylbenzene	ND	0.0250	1	10/25/21	10/25/21	
Toluene	ND	0.0250	1	10/25/21	10/25/21	
o-Xylene	ND	0.0250	1	10/25/21	10/25/21	
p,m-Xylene	ND	0.0500	1	10/25/21	10/25/21	
Total Xylenes	ND	0.0250	1	10/25/21	10/25/21	
Surrogate: 4-Bromochlorobenzene-PID		*105 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2144007
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/25/21	10/25/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.5 %*	*70-130*	*10/25/21*	*10/25/21*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2144003
Diesel Range Organics (C10-C28)	**132**	25.0	1	10/25/21	10/25/21	
Oil Range Organics (C28-C36)	**168**	50.0	1	10/25/21	10/25/21	
Surrogate: n-Nonane		*111 %*	*50-200*	*10/25/21*	*10/25/21*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2144006
Chloride	ND	20.0	1	10/25/21	10/26/21	

QC Summary Data

Dugan Production Corp.	Project Name:	Calgary	Reported:
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/26/2021 6:44:58PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2144007-BLK1)									Prepared: 10/25/21 Analyzed: 10/26/21
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*8.11*		*8.00*		*101*	*70-130*			
LCS (2144007-BS1)									Prepared: 10/25/21 Analyzed: 10/26/21
Benzene	4.96	0.0250	5.00		99.2	70-130			
Ethylbenzene	4.79	0.0250	5.00		95.7	70-130			
Toluene	4.98	0.0250	5.00		99.6	70-130			
o-Xylene	4.92	0.0250	5.00		98.4	70-130			
p,m-Xylene	9.73	0.0500	10.0		97.3	70-130			
Total Xylenes	14.7	0.0250	15.0		97.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8.30*		*8.00*		*104*	*70-130*			
LCS Dup (2144007-BSD1)									Prepared: 10/25/21 Analyzed: 10/26/21
Benzene	4.98	0.0250	5.00		99.7	70-130	0.511	20	
Ethylbenzene	4.81	0.0250	5.00		96.2	70-130	0.487	20	
Toluene	5.00	0.0250	5.00		100	70-130	0.403	20	
o-Xylene	4.95	0.0250	5.00		98.9	70-130	0.520	20	
p,m-Xylene	9.79	0.0500	10.0		97.9	70-130	0.566	20	
Total Xylenes	14.7	0.0250	15.0		98.2	70-130	0.550	20	
Surrogate: 4-Bromochlorobenzene-PID	*8.20*		*8.00*		*102*	*70-130*			

QC Summary Data

Dugan Production Corp.	Project Name:	Calgary	Reported:
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/26/2021 6:44:58PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2144007-BLK1)									Prepared: 10/25/21 Analyzed: 10/26/21
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.18*		*8.00*		*89.8*	*70-130*			
LCS (2144007-BS2)									Prepared: 10/25/21 Analyzed: 10/26/21
Gasoline Range Organics (C6-C10)	51.1	20.0	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.41*		*8.00*		*92.6*	*70-130*			
LCS Dup (2144007-BSD2)									Prepared: 10/25/21 Analyzed: 10/26/21
Gasoline Range Organics (C6-C10)	50.1	20.0	50.0		100	70-130	2.04	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.22*		*8.00*		*90.3*	*70-130*			

QC Summary Data

Dugan Production Corp.	Project Name:	Calgary	Reported:
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/26/2021 6:44:58PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2144003-BLK1)									Prepared: 10/25/21 Analyzed: 10/25/21
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*52.0*		*50.0*		*104*	*50-200*			
LCS (2144003-BS1)									Prepared: 10/25/21 Analyzed: 10/25/21
Diesel Range Organics (C10-C28)	454	25.0	500		90.9	38-132			
Surrogate: n-Nonane	*50.4*		*50.0*		*101*	*50-200*			
Matrix Spike (2144003-MS1)				**Source: E110093-07**					Prepared: 10/25/21 Analyzed: 10/25/21
Diesel Range Organics (C10-C28)	769	25.0	500	463	61.2	38-132			
Surrogate: n-Nonane	*51.3*		*50.0*		*103*	*50-200*			
Matrix Spike Dup (2144003-MSD1)				**Source: E110093-07**					Prepared: 10/25/21 Analyzed: 10/25/21
Diesel Range Organics (C10-C28)	823	25.0	500	463	72.1	38-132	6.88	20	
Surrogate: n-Nonane	*51.0*		*50.0*		*102*	*50-200*			

QC Summary Data

Dugan Production Corp.	Project Name:	Calgary	Reported:
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/26/2021 6:44:58PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2144006-BLK1)									Prepared: 10/25/21 Analyzed: 10/26/21
Chloride	ND	20.0							
LCS (2144006-BS1)									Prepared: 10/25/21 Analyzed: 10/26/21
Chloride	246	20.0	250		98.2	90-110			
LCS Dup (2144006-BSD1)									Prepared: 10/25/21 Analyzed: 10/26/21
Chloride	245	20.0	250		98.0	90-110	0.224	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Dugan Production Corp.	Project Name:	Calgary	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	10/26/21 18:44

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

Client: Dugan
Project: Calgary
Project Manager: Kevin Smith
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention:
Address:
City, State, Zip
Phone:
Email:

Lab Use Only
Lab WO# E110093
Job Number 04094-0177

TAT: 1D | 2D | 3D | Standard X

EPA Program: CWA | SDWA | RCRA

State: NM | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Remarks
9:45	10/18	S	1	Calgary B1	1	X	X	X			X	
"	"	"	"	Calgary B2	2	"	"	"			"	
"	"	"	"	Calgary B3	3	"	"	"			"	
"	"	"	"	Calgary B4	4	"	"	"			"	
"	"	"	"	Calgary B5	5	"	"	"			"	
"	"	"	"	Calgary W1	6	"	"	"			"	
"	"	"	"	Calgary W2	7	"	"	"			"	
"	"	"	"	Calgary W3	8	"	"	"			"	
"	"	"	"	Calgary W4	9	"	"	"			"	
"	"	"	"	Calgary W5	10	"	"	"			"	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Kevin Smith

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Kevin Smith	10/18	4:25	[signature]	10/18/21	16:27
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
Received on ice: (Y) N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Project Information

Chain of Custody

Client: Dugan
Project: Calgary
Project Manager: Ben Smoke
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention:
Address:
City, State, Zip
Phone:
Email:

Lab Use Only
Lab WO# E110093
Job Number 01094-0177

TAT: 1D | 2D | 3D | Standard X

EPA Program: CWA | SDWA | RCRA

State: NM | CO | UT | AZ | TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Remarks
9:45	10/18	S	1	Calgary W6	11	X	X	X			X	
"	"	"	"	Calgary W7	12	"	"	"			"	
"	"	"	"	Calgary W8	13	"	"	"			"	
"	"	"	"	Calgary W9	14	"	"	"			"	
"	"	"	"	Calgary W10	15	"	"	"			"	

Analysis and Method

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Ben Smoke

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Ben Smoke	10/18	4:25		10/18/21	16:27
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
Received on ice: (Y) N
T1 T2 4 T3
AVG Temp °C

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 10/19/2021 5:09:21PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Dugan Production Corp.	Date Received:	10/18/21 16:27	Work Order ID:	E110093
Phone:	(505) 325-1821	Date Logged In:	10/19/21 13:32	Logged In By:	Alexa Michaels
Email:	kevin.smaka@duganproduction.com	Due Date:	10/25/21 17:00 (5 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Kevin Smaka
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
8. If yes, was cooler received in good condition?	Yes
9. Was the sample(s) received intact, i.e., not broken?	Yes
10. Were custody/security seals present?	No
11. If yes, were custody/security seals intact?	NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Comments/Resolution

Sample Container

14. Are aqueous VOC samples present?	No
15. Are VOC samples collected in VOA Vials?	NA
16. Is the head space less than 6-8 mm (pea sized or less)?	NA
17. Was a trip blank (TB) included for VOC analyses?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
19. Is the appropriate volume/weight or number of sample containers collected?	Yes

Field Label

20. Were field sample labels filled out with the minimum information:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
24. Is lab filteration required and/or requested for dissolved metals?	No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Calgary #88

30-045-26784

A-06-23N-10W

660 FNL 660 FEL

Oil Tank Spill Closure Report

An oil spill occurred at the Calgary 88 tank battery. There was a failure in the drain line of the storage tank which resulted in the spill. The pit on site was filled with oil and subsequently the vault housing the pit was also filled.

To remediate this spill Dugan excavated the contaminated soils and hauled the contaminated soil to Envirotech's land-farm for disposal. A hole approximately 40'x25'x10' was excavated. One side of the excavation was shored down at the recommendation of Dugan's safety officer to prevent harm to the remediation crew. As a result of the shoring one of the holes side walls was removed and a ramp was all that remained. These soils were also hauled to Envirotech. After all the digging there was a hole 40'25'10' with a wall removed so the equipment operator was protected from wall collapses. This action resulted in 3 walls and 1 bottom. The dimensions of the walls were 40'x10' – 25'x10' – 40'x10'. In total there was a surface area 1050 square feet on the walls and 1000 square feet on the bottom.

After reviewing aerial pictures, topographic maps, hydrogeologic data, the NMSEO iWaters database, FEMA floodplain maps and NMT mine maps, Dugan has determined that closure will be based on the >100 feet to groundwater standard of the rule.

>100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

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
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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 67059

CONDITIONS

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 67059
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	1/7/2022