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	
District RP	
Facility ID	
Application ID	

Release Notification

RCVD 8/5/19

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)*
Contact mailing address PO Box 420, Farmington, NM 87499	NCS 1915551675

Location of Release Source

Latitude 36.18563 Longitude -107.62989
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Little b #2	Site Type gas well
Date Release Discovered 4/5/19	API# *(if applicable)* 30-045-28333

Unit Letter	Section	Township	Range	County
G	36	23N	8W	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)	Volume Recovered (bbls)
☐ 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		

State of New Mexico
Oil Conservation Division

Incident ID	
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)?	

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: Regulatory Engineer

Signature: _____ Date: _____

email: kevin.smaka@duganproduction.com Telephone: 505-325-1821 x1049

OCD Only

Received by: _____ Date: _____

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.

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: _____

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: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

- [x] A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- [x] 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)
- [x] Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- [x] 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: Engineer

Signature: Kevin Smith Date: 8-6-19

email: _____ Telephone: _____

OCD Only

Received by: OCD Date: 8/5/19

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: 8/8/19

Printed Name: Cory Title: Environmental Specalist

Little B #2

API # 30-045-28333

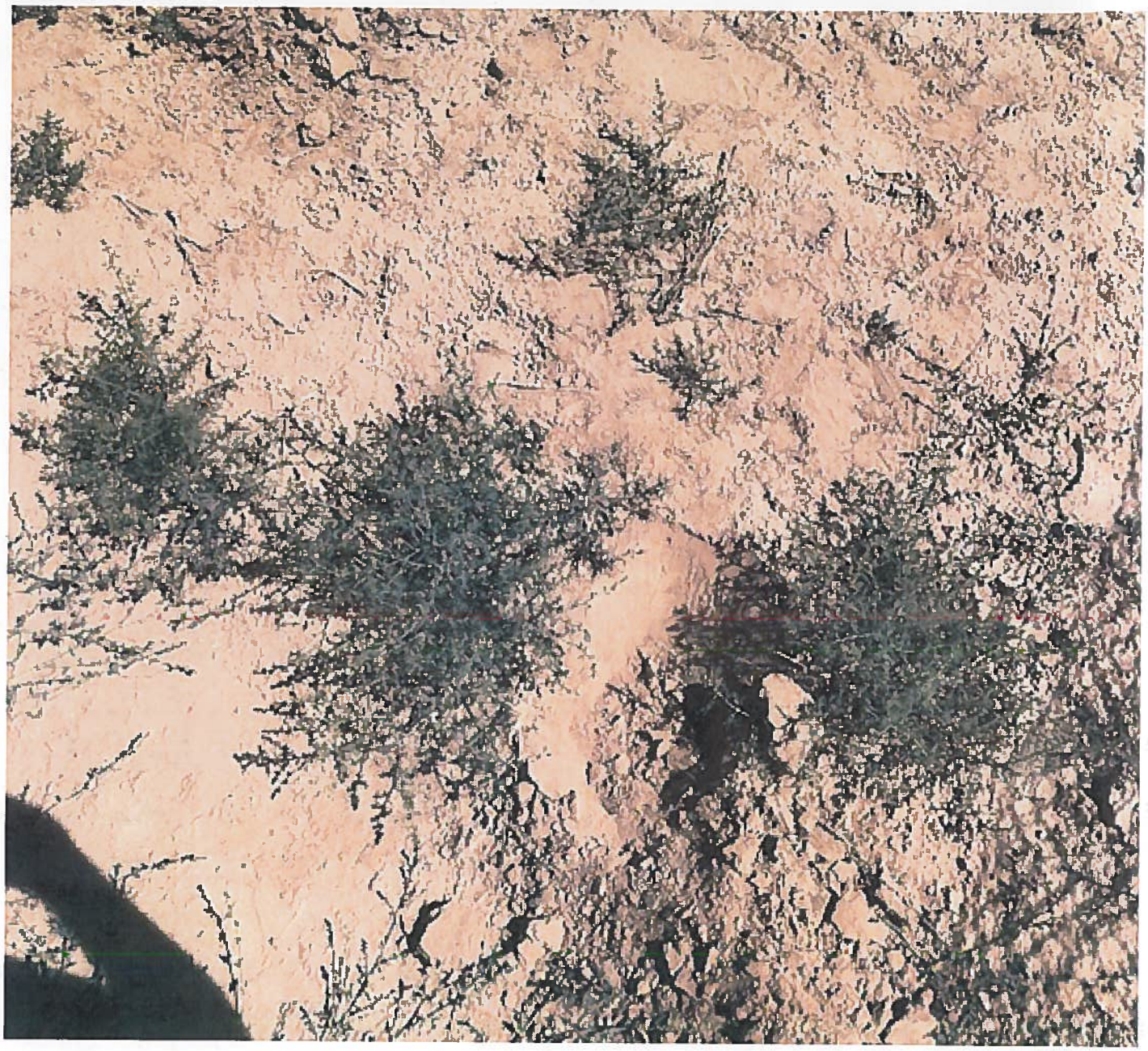
Spill Closure Report

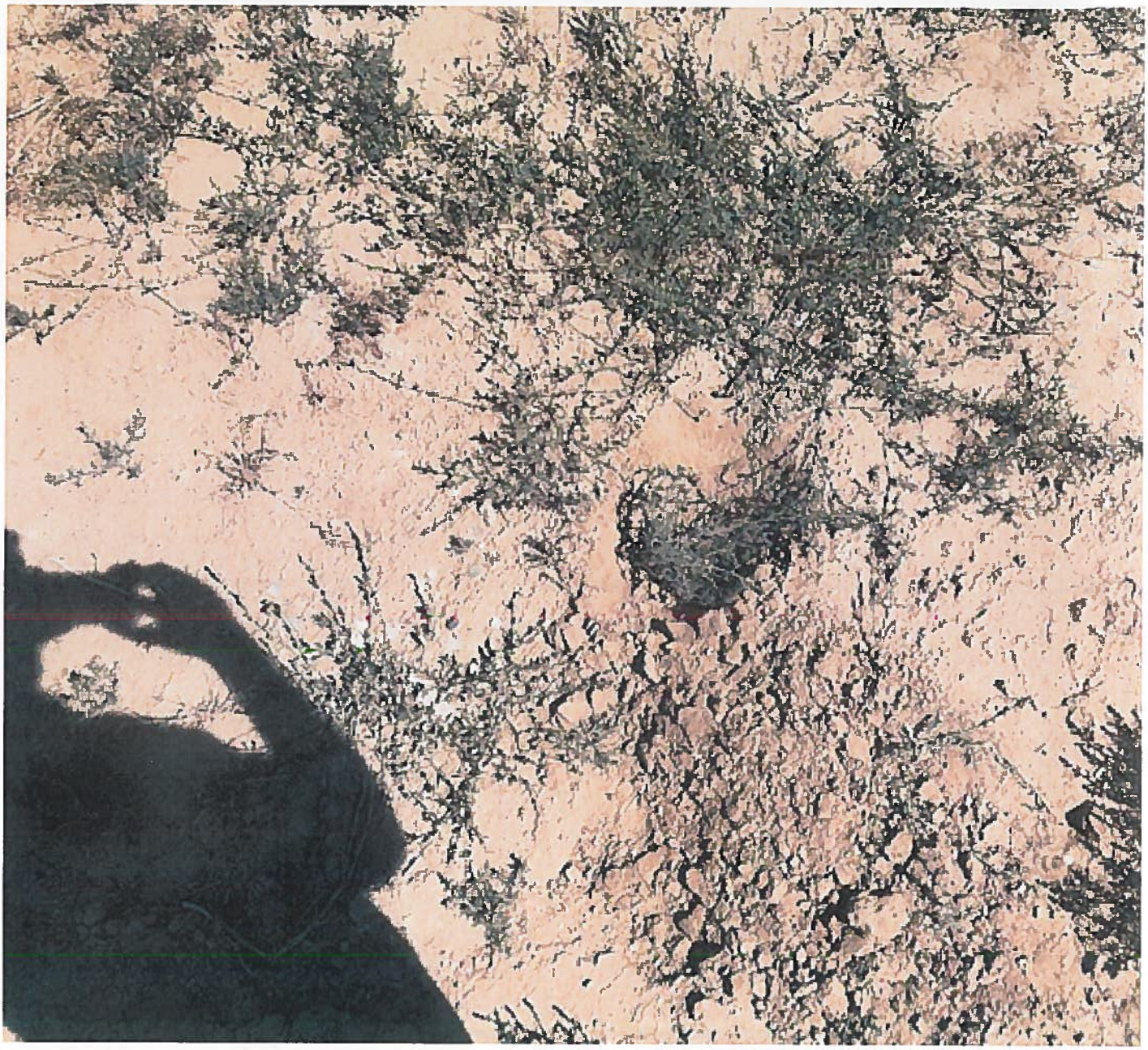
On April 5, 2019, DPC employees discovered a produced water spill at the Little B #2. The release was caused by a corroded piece of piping in the pumping T. Dugan personnel stopped the leak, and began efforts to prevent further spread of the water by building berms downstream of the release. Additionally a fence was setup to prevent people or wildlife from entering the spill area and consuming the water.

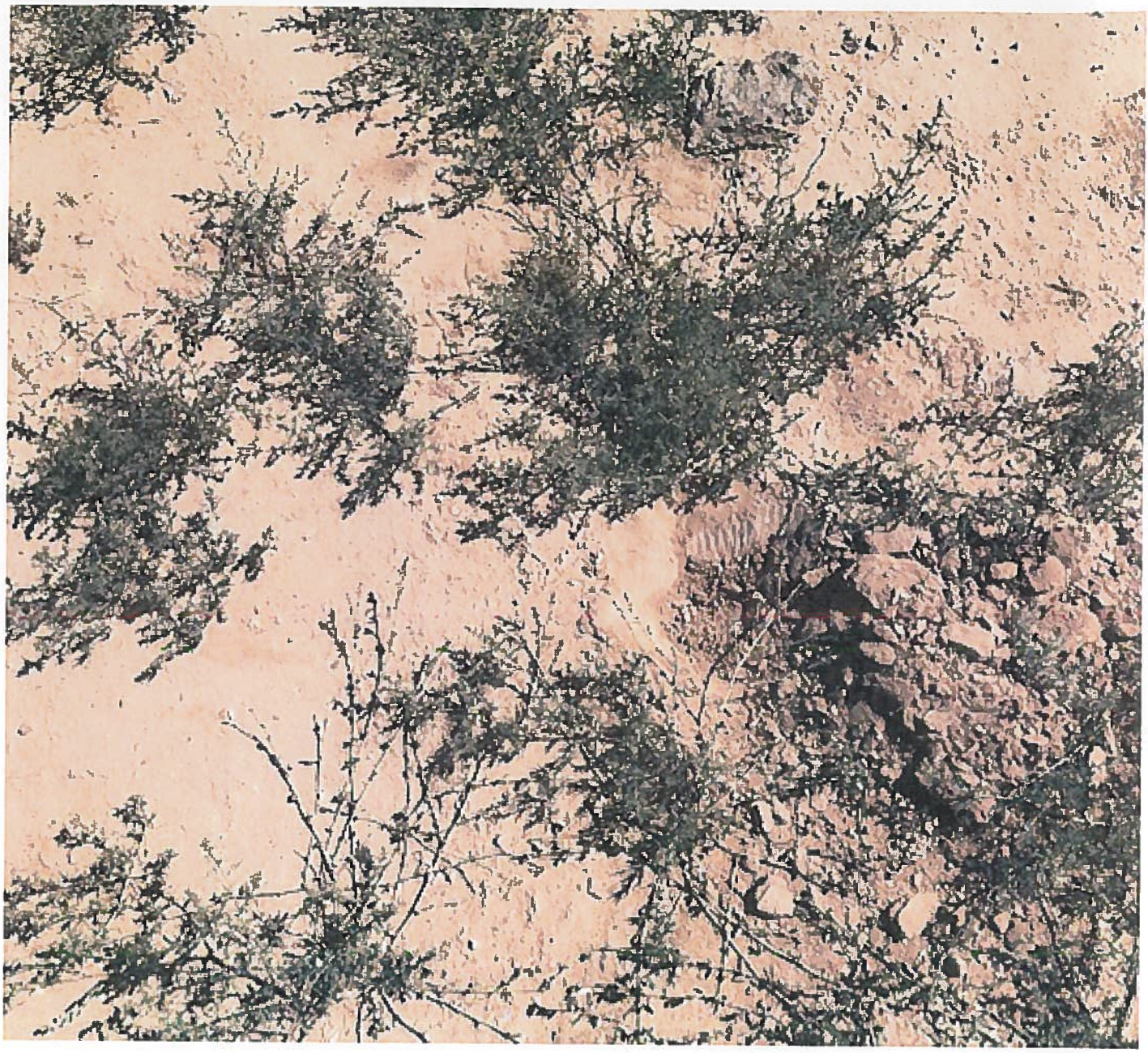
To treat the spill Dugan applied 300 pounds of gypsum to the spill area. In addition to gypsum fresh water was applied to the spill area to aid in remedial efforts.

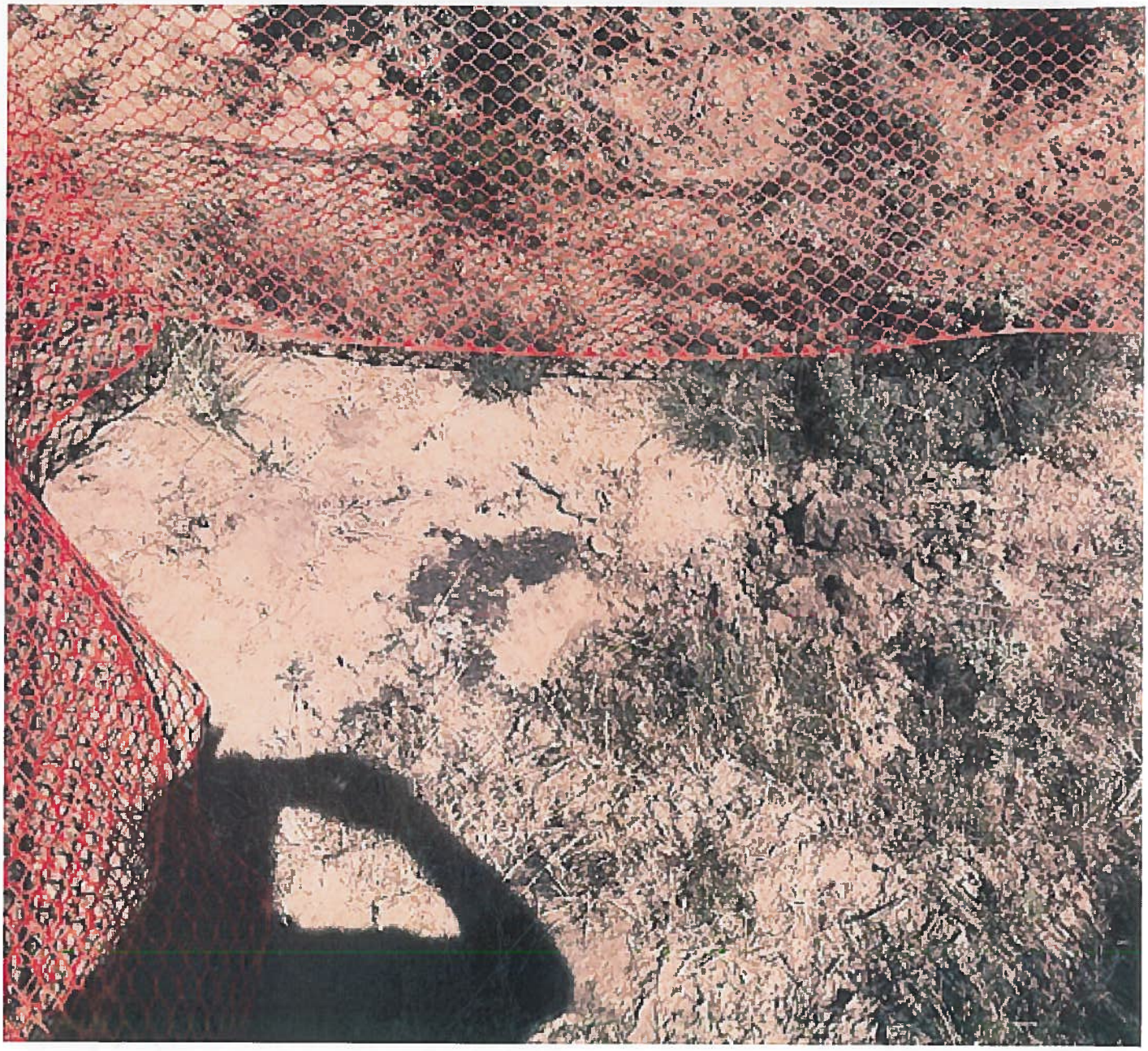
On July 12, 2019 Dugan sampled the soils at the site. NM OCD and BLM were each notified of the sampling. The area was measured and found to be roughly 50'x42'. This area was divided into 4 quadrants where 5 point samples were collected.

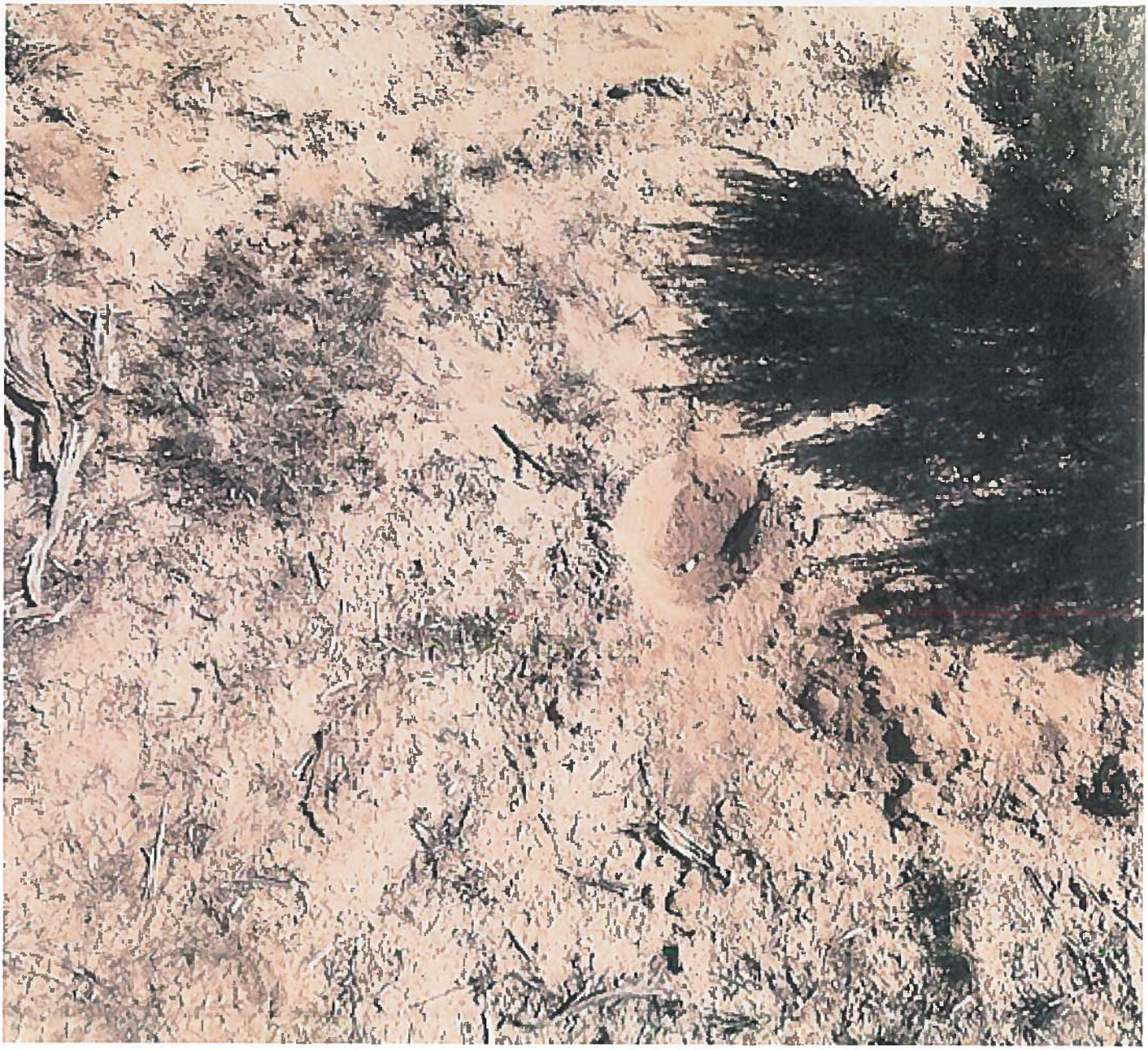
Results were received from the lab and the highest level of contaminants detected were within the allowed limits of Table 1 19.15.29 NMAC. Based on the sampling results and distances to groundwater, domestic wells etc. Dugan finds that the site has been successfully remediated.

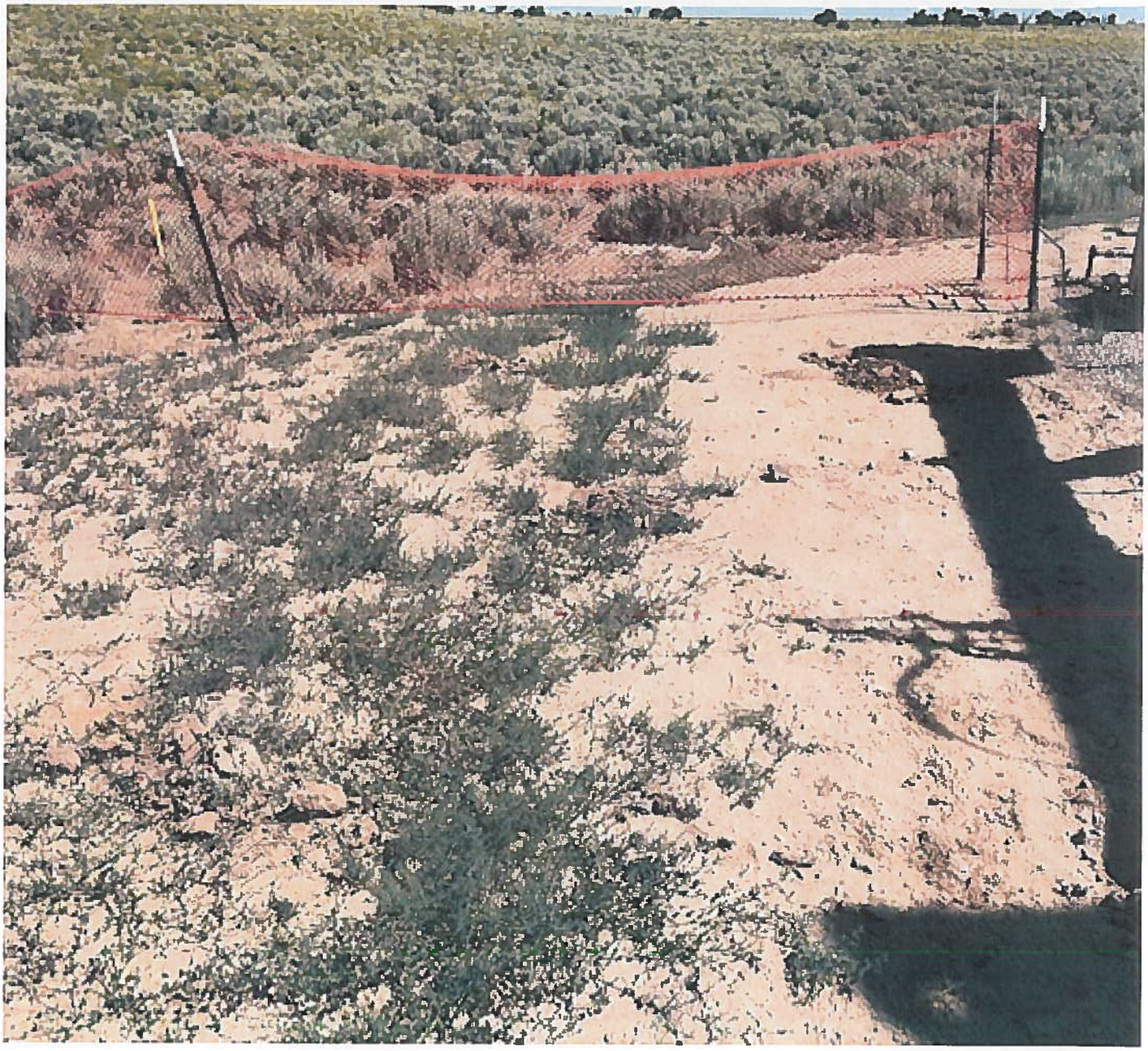


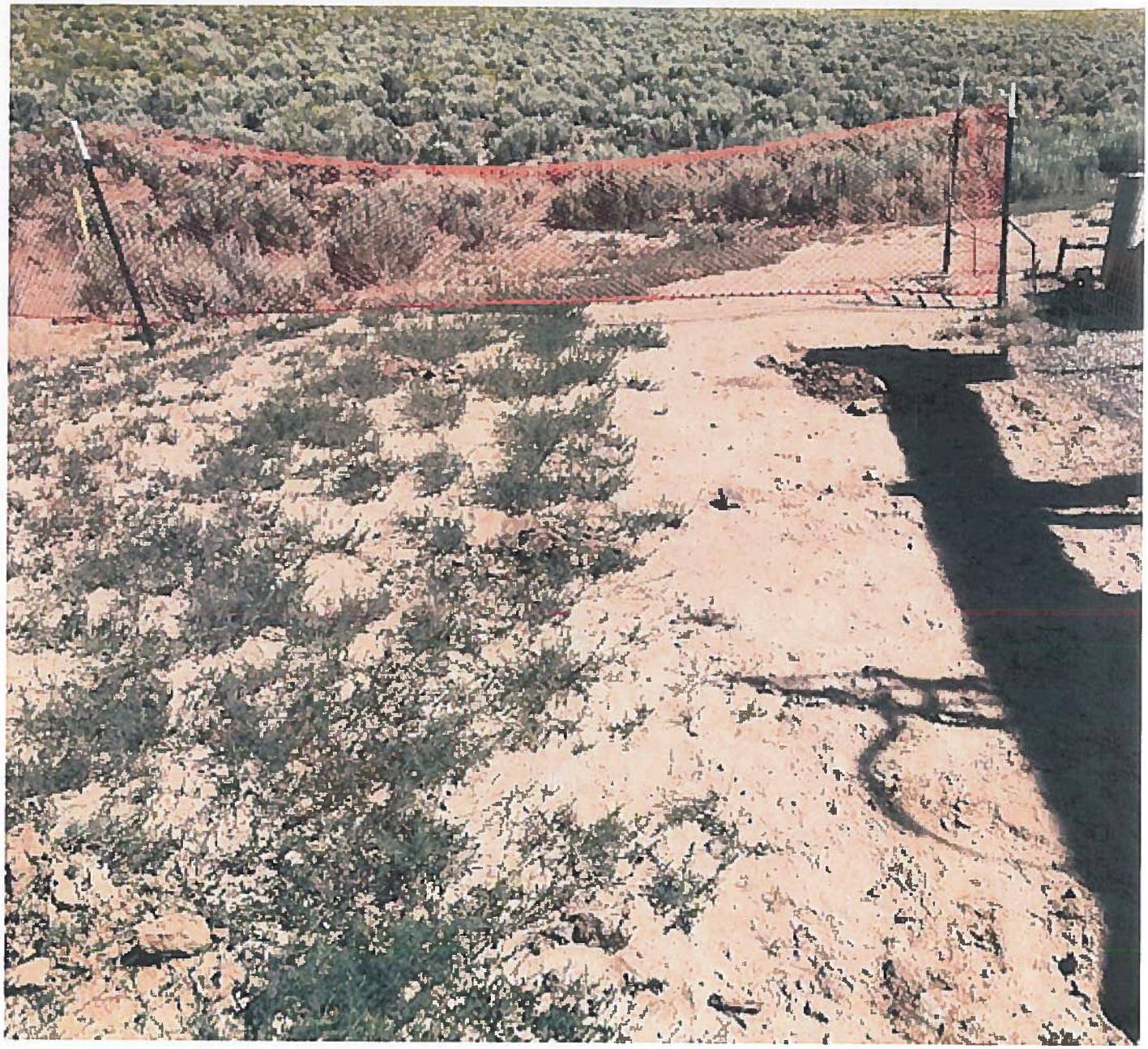


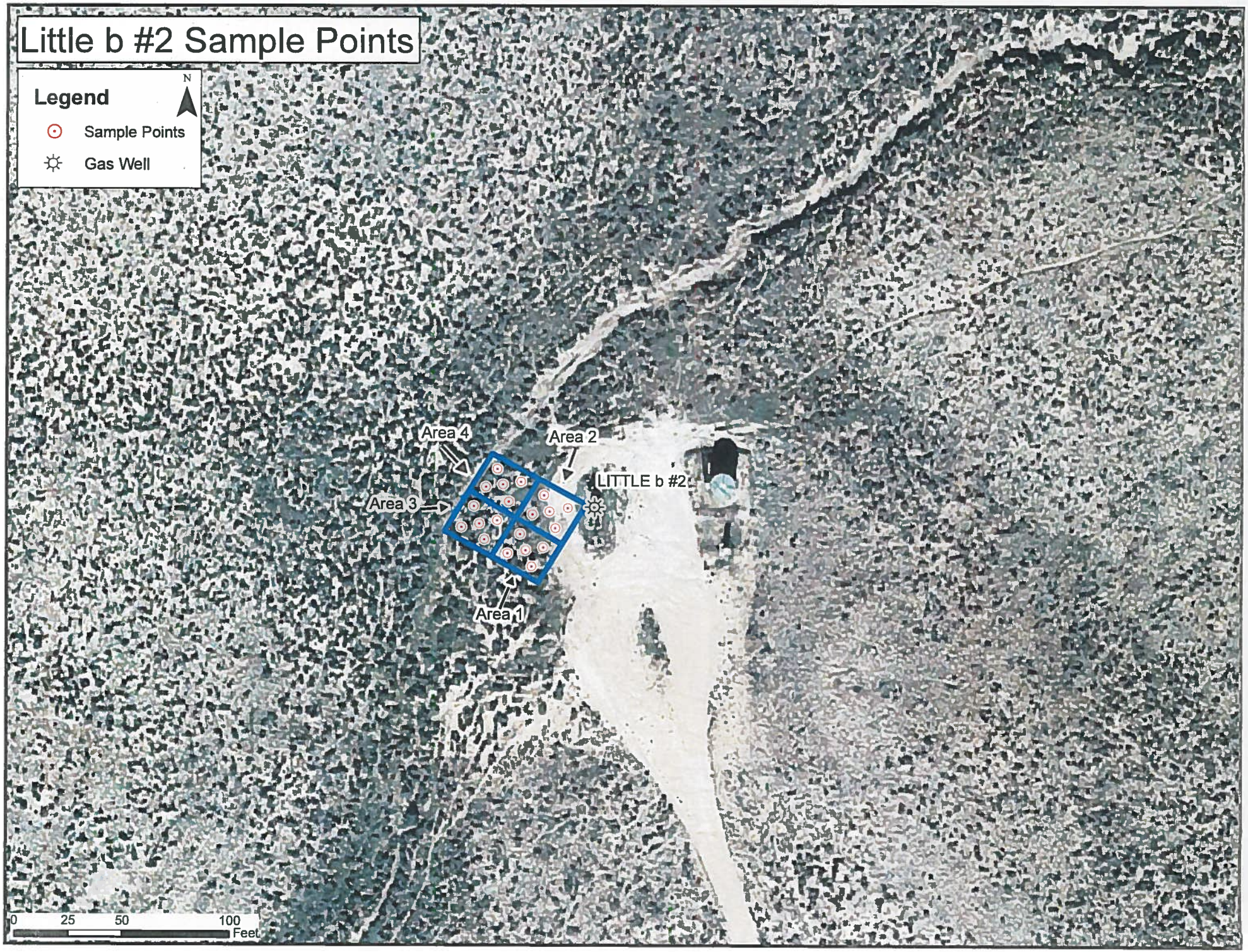




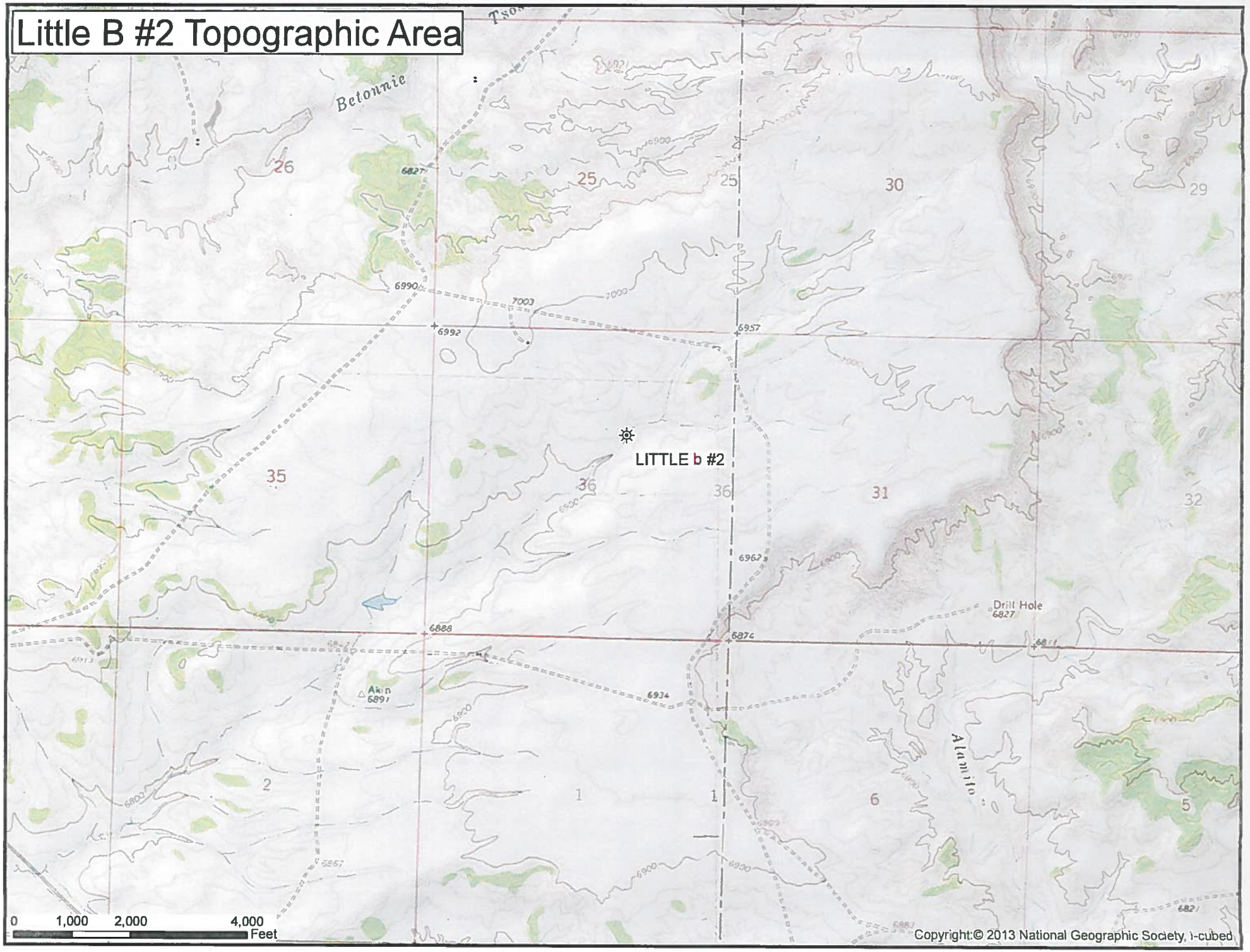


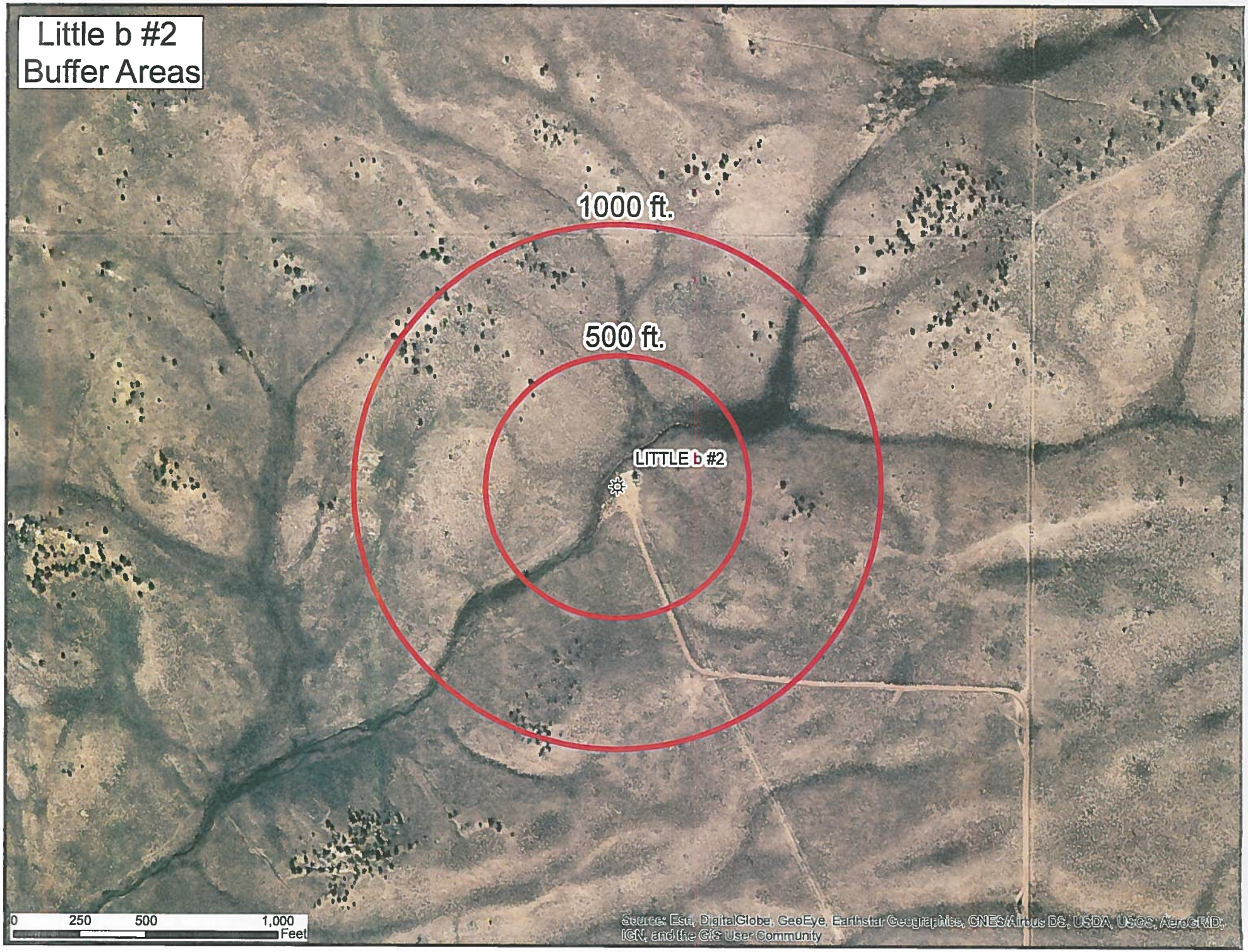




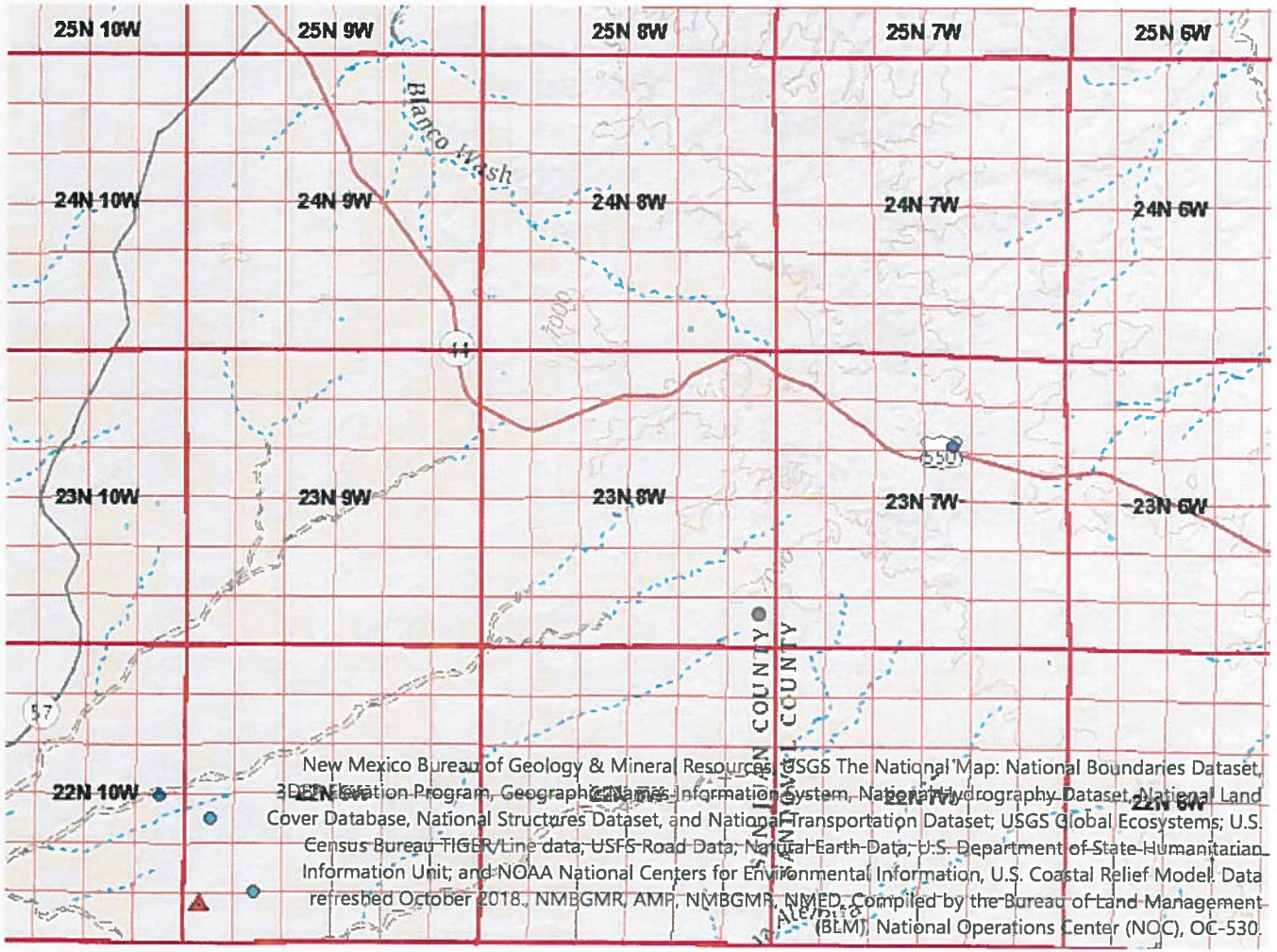

Little b #2 Sample Points
Legend
N
Sample Points
Gas Well
Area 4
Area 2
LITTLE b #2
Area 3
Area 1
0
25
50
100
Feet

Little B #2 Topographic Area




Little b #2
Buffer Areas
1000 ft.
500 ft.
LITTLE b #2
0 250 500 1,000
Feet
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

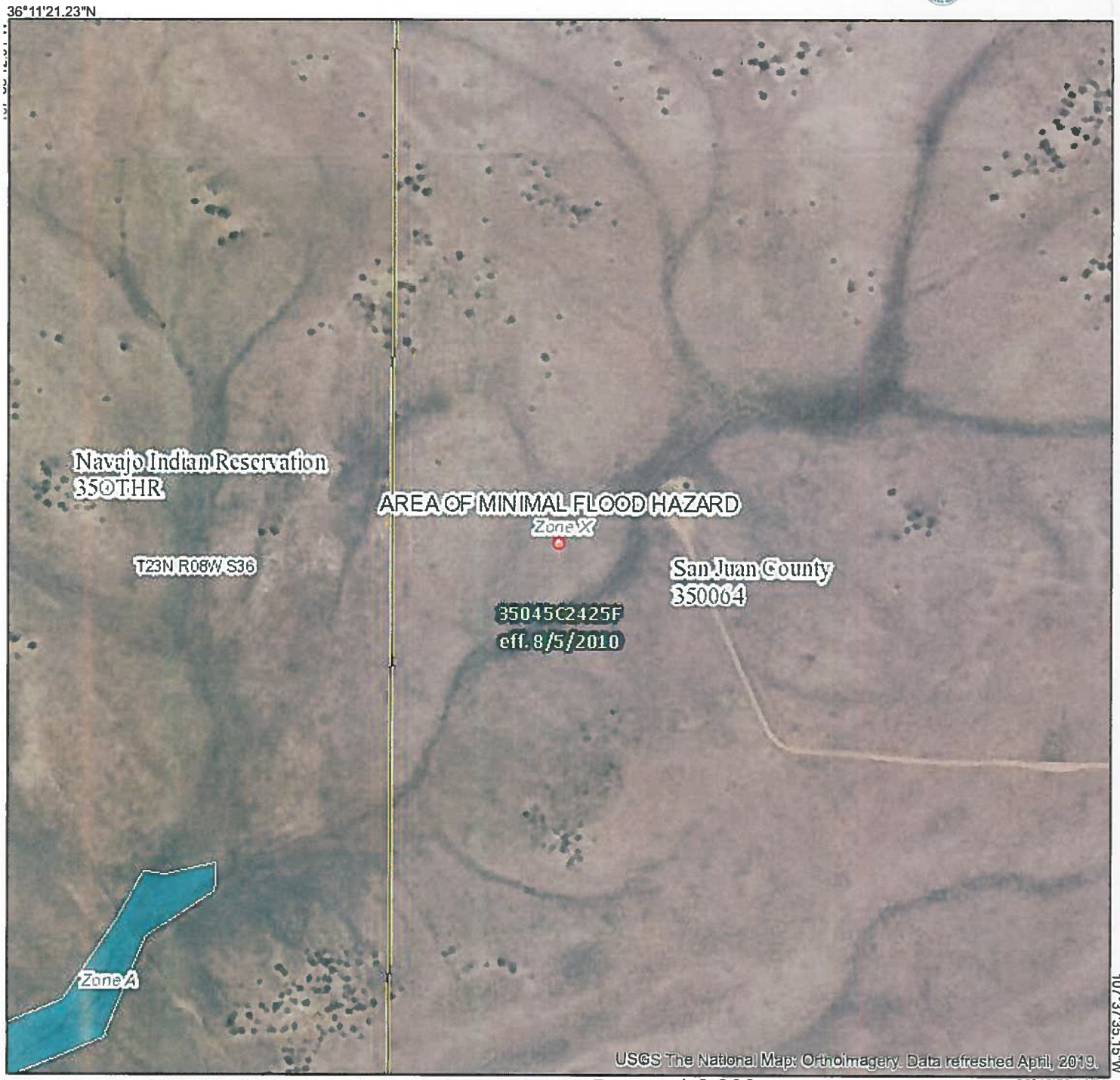

Little b #2 Spill Area
LITTLE b #2
0 25 50 100
Feet



New Mexico Bureau of Geology & Mineral Resources, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data, USFS Road Data, Natural Earth Data, U.S. Department of State Humanitarian Information Unit; and NOAA National Centers for Environmental Information, U.S. Coastal Relief Model. Data refreshed October 2018., NMBGMR, AMP, NMBGMR, NMED, Compiled by the Bureau of Land Management (BLM), National Operations Center (NOC), OC-530.

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 drainag 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
- 513 — 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 8/5/2019 at 4:59:36 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.

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 36 **Township:** 23N **Range:** 08W

8/2/19 12:56 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

envirotech
Analytical Laboratory

Analytical Report

Report Summary

Client: Dugan Production Corp.

Samples Received: 7/12/2019
Job Number: 06094-0177
Work Order: P907034
Project Name/Location: Little B #2

Report Reviewed By: Walter Hinchman Date: 7/18/19

Walter Hinchman, Laboratory Director

NELAP ACCREDITED TNI LABORATORY

Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

envirotech
Analytical Laboratory

Dugan Production Corp.	Project Name:	Little B #2	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Michael Sandoval	07/18/19 10:34

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
little B #2 1	P907034-01A	Soil	07/12/19	07/12/19	Glass Jar, 4 oz.
little B #2 2	P907034-02A	Soil	07/12/19	07/12/19	Glass Jar, 4 oz.
little B #2 3	P907034-03A	Soil	07/12/19	07/12/19	Glass Jar, 4 oz.
little B #2 4	P907034-04A	Soil	07/12/19	07/12/19	Glass Jar, 4 oz.

envirotech
Analytical Laboratory

Dugan Production Corp.	Project Name:	Little B #2	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Michael Sandoval	07/18/19 10:34

little B #2 1
P907034-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*95.9 %*		*50-150*	*1928047*	*07/12/19*	*07/15/19*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1928040	07/12/19	07/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1928040	07/12/19	07/15/19	EPA 8015D	
Surrogate: n-Nonane		*115 %*		*50-200*	*1928040*	*07/12/19*	*07/15/19*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*101 %*		*50-150*	*1928047*	*07/12/19*	*07/15/19*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**107**	20.0	mg/kg	1	1928046	07/12/19	07/12/19	EPA 300.0/9056A	

Area 1

envirotech
Analytical Laboratory

Dugan Production Corp.	Project Name:	Little B #2	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Michael Sandoval	07/18/19 10:34

little B #2 2
P907034-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*96.0 %*		*50-150*	*1928047*	*07/12/19*	*07/15/19*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1928040	07/12/19	07/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1928040	07/12/19	07/15/19	EPA 8015D	
Surrogate: n-Nonane		*99.4 %*		*50-200*	*1928040*	*07/12/19*	*07/15/19*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*104 %*		*50-150*	*1928047*	*07/12/19*	*07/15/19*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	27.4	20.0	mg/kg	1	1928046	07/12/19	07/12/19	EPA 300.0/9056A	

Area 2

envirotech
Analytical Laboratory

Dugan Production Corp.	Project Name:	Little B #2	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Michael Sandoval	07/18/19 10:34

little B #2 3
P907034-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*95.3 %*		*50-150*	*1928047*	*07/12/19*	*07/15/19*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1928040	07/12/19	07/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1928040	07/12/19	07/15/19	EPA 8015D	
Surrogate: n-Nonane		*101 %*		*50-200*	*1928040*	*07/12/19*	*07/15/19*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*103 %*		*50-150*	*1928047*	*07/12/19*	*07/15/19*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**22.0**	20.0	mg/kg	1	1928046	07/12/19	07/12/19	EPA 300.0/9056A	

Area 3

envirotech
Analytical Laboratory

Dugan Production Corp.	Project Name:	Little B #2	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Michael Sandoval	07/18/19 10:34

little B #2 4
P907034-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*95.7 %*		*50-150*	*1928047*	*07/12/19*	*07/15/19*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1928040	07/12/19	07/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1928040	07/12/19	07/15/19	EPA 8015D	
Surrogate: n-Nonane		*99.3 %*		*50-200*	*1928040*	*07/12/19*	*07/15/19*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*104 %*		*50-150*	*1928047*	*07/12/19*	*07/15/19*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**36.4**	20.0	mg/kg	1	1928046	07/12/19	07/12/19	EPA 300.0/9056A	

Area 4

Dugan Production Corp.	Project Name:	Little B #2	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Michael Sandoval	07/18/19 10:34

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1928047 - Purge and Trap EPA 5030A										
Blank (1928047-BLK1)				Prepared: 07/12/19 1 Analyzed: 07/15/19 1						
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	*7.69*		"	*8.00*		*96.1*	*50-150*			
LCS (1928047-BS1)				Prepared: 07/12/19 1 Analyzed: 07/15/19 1						
Benzene	4.30	0.0250	mg/kg	5.00		86.0	70-130			
Toluene	4.67	0.0250	"	5.00		93.4	70-130			
Ethylbenzene	4.65	0.0250	"	5.00		93.1	70-130			
p,m-Xylene	9.60	0.0500	"	10.0		96.0	70-130			
o-Xylene	4.65	0.0250	"	5.00		93.0	70-130			
Total Xylenes	14.3	0.0250	"	15.0		95.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.70*		"	*8.00*		*96.3*	*50-150*			
Matrix Spike (1928047-MS1)	**Source: P907034-01**			Prepared: 07/12/19 1 Analyzed: 07/15/19 1						
Benzene	4.46	0.0250	mg/kg	5.00	ND	89.1	54.3-133			
Toluene	4.83	0.0250	"	5.00	ND	96.5	61.4-130			
Ethylbenzene	4.80	0.0250	"	5.00	ND	96.0	61.4-133			
p,m-Xylene	9.88	0.0500	"	10.0	ND	98.8	63.3-131			
o-Xylene	4.78	0.0250	"	5.00	ND	95.5	63.3-131			
Total Xylenes	14.7	0.0250	"	15.0	ND	97.7	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.72*		"	*8.00*		*96.5*	*50-150*			
Matrix Spike Dup (1928047-MSD1)	**Source: P907034-01**			Prepared: 07/12/19 1 Analyzed: 07/15/19 1						
Benzene	4.17	0.0250	mg/kg	5.00	ND	83.4	54.3-133	6.67	20	
Toluene	4.53	0.0250	"	5.00	ND	90.5	61.4-130	6.45	20	
Ethylbenzene	4.50	0.0250	"	5.00	ND	90.0	61.4-133	6.42	20	
p,m-Xylene	9.29	0.0500	"	10.0	ND	92.9	63.3-131	6.20	20	
o-Xylene	4.49	0.0250	"	5.00	ND	89.7	63.3-131	6.28	20	
Total Xylenes	13.8	0.0250	"	15.0	ND	91.8	63.3-131	6.23	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.74*		"	*8.00*		*96.8*	*50-150*			

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Analytical Laboratory

Dugan Production Corp.	Project Name:	Little B #2	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Michael Sandoval	07/18/19 10:34

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1928040 - DRO Extraction EPA 3570										
Blank (1928040-BLK1)				Prepared: 07/12/19 0 Analyzed: 07/15/19 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	*54.9*		"	*50.0*		*110*	*50-200*			
LCS (1928040-BS1)				Prepared: 07/12/19 0 Analyzed: 07/15/19 1						
Diesel Range Organics (C10-C28)	486	25.0	mg/kg	500		97.3	38-132			
Surrogate: n-Nonane	*50.7*		"	*50.0*		*101*	*50-200*			
Matrix Spike (1928040-MS1)	**Source: P907029-01**			Prepared: 07/12/19 0 Analyzed: 07/15/19 1						
Diesel Range Organics (C10-C28)	530	25.0	mg/kg	500	40.4	98.0	38-132			
Surrogate: n-Nonane	*50.5*		"	*50.0*		*101*	*50-200*			
Matrix Spike Dup (1928040-MSD1)	**Source: P907029-01**			Prepared: 07/12/19 0 Analyzed: 07/15/19 1						
Diesel Range Organics (C10-C28)	534	25.0	mg/kg	500	40.4	98.7	38-132	0.660	20	
Surrogate: n-Nonane	*50.7*		"	*50.0*		*101*	*50-200*			

Dugan Production Corp.	Project Name:	Little B #2	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Michael Sandoval	07/18/19 10:34

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1928047 - Purge and Trap EPA 5030A										
Blank (1928047-BLK1)				Prepared: 07/12/19 1 Analyzed: 07/15/19 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.28*		"	*8.00*		*103*	*50-150*			
LCS (1928047-BS2)				Prepared: 07/12/19 1 Analyzed: 07/15/19 1						
Gasoline Range Organics (C6-C10)	55.4	20.0	mg/kg	50.0		111	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.27*		"	*8.00*		*103*	*50-150*			
Matrix Spike (1928047-MS2)		**Source: P907034-01**		Prepared: 07/12/19 1 Analyzed: 07/15/19 1						
Gasoline Range Organics (C6-C10)	54.8	20.0	mg/kg	50.0	ND	110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.26*		"	*8.00*		*103*	*50-150*			
Matrix Spike Dup (1928047-MSD2)		**Source: P907034-01**		Prepared: 07/12/19 1 Analyzed: 07/15/19 1						
Gasoline Range Organics (C6-C10)	52.3	20.0	mg/kg	50.0	ND	105	70-130	4.55	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.28*		"	*8.00*		*104*	*50-150*			

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Dugan Production Corp.	Project Name:	Little B #2	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Michael Sandoval	07/18/19 10:34

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1928046 - Anion Extraction EPA 300.0/9056A										
Blank (1928046-BLK1)				Prepared & Analyzed: 07/12/19 1						
Chloride	ND	20.0	mg/kg							
LCS (1928046-BS1)				Prepared & Analyzed: 07/12/19 1						
Chloride	267	20.0	mg/kg	250		107	90-110			
Matrix Spike (1928046-MS1)	**Source: P907029-01**			Prepared & Analyzed: 07/12/19 1						
Chloride	594	20.0	mg/kg	250	329	106	80-120			
Matrix Spike Dup (1928046-MSD1)	**Source: P907029-01**			Prepared & Analyzed: 07/12/19 1						
Chloride	587	20.0	mg/kg	250	329	103	80-120	1.27	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 my differ slightly.

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Dugan Production Corp.	Project Name:	Little B #2	
PO Box 420	Project Number:	06094-0177	**Reported:**
Farmington NM, 87499	Project Manager:	Michael Sandoval	07/18/19 10:34

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Project Information | Chain of Custody | Page 1 of 1

Client: Dugan Production
Project: Little B #2
Project Manager: Michael Sandoval
Address:
City, State, Zip
Phone: 505-330-0929
Email:

Report Attention
Report due by:
Attention:
Address:
City, State, Zip
Phone:
Email:

Lab Use Only
Lab WO#: P907034
Job Number: 06094-0177

TAT: 1D | 3D

EPA Program: RCRA | CWA | SDWA

State: NM | CO | UT | AZ

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | TPH 418.1

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	Remarks
10:50	7-12-19	S	1	Little B #2 (1)	1	
10:55	7-12-19	S	1	Little B #2 (2)	2	
11:00	7-12-19	S	1	Little B #2 (3)	3	
11:05	7-12-19	S	1	Little B #2 (4)	4	

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: Michael Sandoval

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
Michael Sandoval	7/12/19	2:35	Raina Lopez	7/12/19	2:35pm
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 Analytical Laboratory
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