

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

Responsible Party

Responsible Party: Enterprise Field Services, LLC	OGRID: 151618
Contact Name: Thomas Long	Contact Telephone: 505-599-2286
Contact email: tjlong@eprod.com	Incident # (assigned by OCD): NCS1919034097
Contact mailing address: 614 Reilly Ave, Farmington, NM 87401	

Location of Release Source

Latitude **36.628523** Longitude **-108.010080** (NAD 83 in decimal degrees to 5 decimal places)

Site Name Lateral 2B-23 Drip Tank	Site Type Natural Gas Condensate Tank
Date Release Discovered: 6/21/2019	Serial Number (if applicable): NM 0 021702

Unit Letter	Section	Township	Range	County
N	28	28N	11W	San Juan

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls): 40 bbls	Volume Recovered (bbls): ~ 40 bbls
<input type="checkbox"/> Natural Gas	Volume Released (Mcf):	Volume Recovered (Mcf):
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units):

Cause of Release: On June 21, 2019, an Enterprise technician discovered a release of condensate on the Lateral 2B-23 Drip Tank. The release was a result of someone shooting holes in the tank. The condensate tank was pumped down by utilizing a vacuum truck. An estimated 40 barrels of condensate was released into the lined secondary containment structure. The condensate from the secondary containment was also removed by vacuum truck. On July 3, 2019, Enterprise removed the liner and completed remediation activities. The final excavation dimensions measured approximately 23 feet long by 21 feet wide by approximately 0.5 feet deep. Approximately seven (7) cubic yards of hydrocarbon impacted soil were excavated and transported to a New Mexico Oil Conservation Division approved land farm facility. A third party closure report is included with this "Final." C-141.

Incident ID	
District RP	
Facility ID	
Application ID	

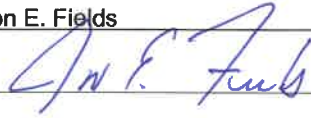
Closure

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.*

- ☒ 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: Jon E. Fields Title: Director, Environmental
Signature:  Date: 7/8/2020
email: jefields@eprod.com Telephone: (713) 381-6684

OCD Only

Received by: OCD Date: 7/8/2020

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: 2/4/2021
Printed Name: Cory Smith Title: Environmental Specialist



CLOSURE REPORT

Property:

**2B-23 Drip Tank Release
SW ¼, S28 T28N R11W
San Juan County, New Mexico**

October 15, 2019 (Updated April 21, 2020)
Ensolum Project No. 05A1226066

Prepared for:

**Enterprise Field Services, LLC
614 Reilly Avenue
Farmington, NM 87401
Attn: Mr. Thomas Long**

Prepared by:

Ranee DeeChilly
Environmental Scientist

Kyle Summers, CPG
Sr. Project Manager

Table of Contents

1.0	INTRODUCTION.....	1
1.1	SITE DESCRIPTION & BACKGROUND	1
1.2	PROJECT OBJECTIVE.....	1
2.0	CLOSURE CRITERIA.....	1
3.0	SOIL REMEDIATION ACTIVITIES.....	3
4.0	SOIL SAMPLING PROGRAM	3
5.0	SOIL LABORATORY ANALYTICAL METHODS	3
6.0	DATA EVALUATION	4
7.0	RECLAMATION AND REVEGETATION	4
8.0	FINDINGS AND RECOMMENDATION	4
9.0	STANDARDS OF CARE, LIMITATIONS, AND RELIANCE	5
9.1	STANDARD OF CARE.....	5
9.2	ADDITIONAL LIMITATIONS.....	5
9.3	RELIANCE.....	5

LIST OF APPENDICES

Appendix A: Figures

- Figure 1 Topographic Map
- Figure 2 Site Vicinity Map
- Figure 3 Site Map with Soil Analytical Results

Appendix B: Executed C-138 Solid Waste Acceptance Form

Appendix C: Photographic Documentation

Appendix D: Table 1 - Soil Analytical Summary

Appendix E: Laboratory Data Sheets & Chain of Custody Documentation

Appendix F: Regulatory Correspondence

Appendix G: Siting Documentation



CLOSURE REPORT

2B-23 Drip Tank Release SW ¼, S28 T28N R11W San Juan County, New Mexico

Ensolum Project No. 05A1226066

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	2B-23 Drip Tank Release (Site)
Location:	36.628523° North, 108.010080° West Southwest (SW) ¼ of Section 28, Township 28 North, Range 11 West San Juan County, New Mexico
Property:	United States (US) Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On June 21, 2019, Enterprise personnel identified approximately 40 barrels (bbls) of water/condensate within the 2B-23 drip tank secondary lined containment. The release of water/condensate resulted from the drip tank being vandalized. Enterprise subsequently removed the liquids from the secondary containment and initiated activities to facilitate the removal and replacement of the drip tank and to remediate potential petroleum hydrocarbon impact resulting from the release.

A **Topographic Map** depicting the location of the Site is included as **Figure 1**, and a **Site Vicinity Map** is included as **Figure 2** in **Appendix A**.

1.2 Project Objective

The primary objective of the closure activities was to reduce constituent of concern (COC) concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria.

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. In order to address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references New Mexico Administrative Code (NMAC) 19.15.29 *Releases*, which establishes investigation and abatement action requirements for oil and gas release sites subject to reporting and/or corrective action. Ensolum, LLC (Ensolum) utilized information provided by Enterprise, the general site characteristics, and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD Imaging database to determine the appropriate closure criteria for the Site.

- No points of diversion (PODs) indicating depth to water were identified within a one-mile radius of the Site on the OSE Water Rights Reporting System (WRRS) database. The only POD identified within one mile of the Site was surface permit SP 04019, which was filed for a highway construction project. The surface permit is not related to groundwater as it is for diverting water from the Navajo

Enterprise Field Services, LLC
 Closure Report
 2B-23 Drip Tank Release
 October 15, 2019 (Updated April 21, 2020)



Irrigation Project Canal to use for construction and related purposed. Records for the surface permit are included in **Appendix G**.

- Numerous cathodic protection wells were identified within one mile of the Site. However, no information regarding depth to water was available for any of the cathodic protection wells. The closest cathodic protection wells, listed below, were identified within 0.5 miles of the Site though records indicate no depth to water. Records for the cathodic protection wells are included in **Appendix G**.
 - Krause WN Fed. #5E (Unit E, Sec 28 T28N R11W)
 - Krause WN Fed. #2E (Unit P, Sec 28 T28N R11W)
 - Krause WN Fed. #4 (Unit B, Sec 33 T28N R11W)
 - Krause WN Fed. #3E (Unit C, Sec 33 T28N R11W)
- The Site is located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution or church.
- No springs, or private domestic fresh water wells used by less than five (5) households for domestic or stock watering purposes were identified within 500 feet of the Site.
- No fresh water wells or springs were identified within 1,000 feet of the Site.
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's GIS, Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- The Site is not located within an unstable area.
- The Site is not located within a 100-year floodplain.

Based on the identified siting criteria, cleanup goals for soils remaining in place at the Site include:

Closure Criteria for Soils Impacted by a Release		
Constituent	Method	Limit
Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015	100 mg/kg
BTEX	EPA SW-846 Method 8021 or 8260	50 mg/kg
Benzene	EPA SW-846 Method 8021 or 8260	10 mg/kg

Enterprise Field Services, LLC
Closure Report
2B-23 Drip Tank Release
October 15, 2019 (Updated April 21, 2020)



3.0 SOIL REMEDIATION ACTIVITIES

During the remediation and corrective action activities OFT Construction, Inc, provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The excavation measured approximately 23 feet long and 21 feet wide at the maximum extents. The maximum depth of the excavation measured approximately 0.5 feet bgs.

The lithology encountered during the completion of remediation activities consisted primarily of unconsolidated silty sand.

A total of approximately seven (7) cubic yards (cy³) of petroleum hydrocarbon affected soils were transported to the Envirotech, Inc. (Envirotech) landfarm near Hilltop, New Mexico for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix B**. Liquids removed from the containment were recycled and transported to the Blanco Storage facility. The excavation was backfilled with imported fill and then contoured to surrounding grade.

Figure 3 is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the excavation (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

4.0 SOIL SAMPLING PROGRAM

Ensolum field screened soil samples from the scraped area utilizing a photoionization detector (PID) fitted with a 10.6 eV lamp and a calibrated Dextsil PetroFLAG[®] hydrocarbon analyzer system.

Ensolum's soil sampling program included the collection of three (3) composite soil samples (S-1 through S-3), comprised of five (5) aliquots each from the scraped area for laboratory analysis. A clean shovel was utilized to obtain fresh aliquots from each area of the scraped excavation. The New Mexico EMNRD OCD provided verbal approval to proceed with the sampling event. A New Mexico EMNRD OCD representative was not on-Site during the sampling event.

First Sampling Event

Subsequent to the removal of the drip tank and the secondary containment lining, the footprint of the former secondary containment was scraped one (1) to six (6) inches in depth utilizing a backhoe. Composite soil samples S-1 (6"), S-2 (3"), and S-3 (1") were collected from the scraped areas.

Soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied labels and custody seals, and stored on ice in a cooler. The samples were relinquished to the courier for Hall Environmental Analysis Laboratory of Albuquerque, New Mexico, under proper chain-of-custody procedures.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) using Environmental Protection Agency (EPA) SW-846 Method #8021, total petroleum hydrocarbon (TPH) gasoline range organics (GRO), diesel range organics (DRO), and motor oil/lube oil range organics (MRO) using EPA SW-846 Method #8015, and chlorides using EPA Method #300.0.

Laboratory analytical results are summarized in **Table 1** in **Appendix D**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix E**.

Enterprise Field Services, LLC
Closure Report
2B-23 Drip Tank Release
October 15, 2019 (Updated April 21, 2020)



6.0 DATA EVALUATION

Ensolum compared the BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1 through S-3) to the applicable New Mexico EMNRD OCD closure criteria.

- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site, indicate benzene is not present in concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 10 milligrams per kilogram (mg/kg).
- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate total BTEX is not present in concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate combined TPH GRO/DRO/MRO is not present in concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for the composite soil samples collected from soils remaining at the Site indicate chloride is not present in concentrations greater than laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 600 mg/kg for chlorides.

Laboratory analytical results are summarized in **Table 1 (Appendix D)**.

7.0 RECLAMATION AND REVEGETATION

The excavation was backfilled with imported fill and then contoured to the surrounding grade. The leaking tank was replaced and put back into service.

8.0 FINDINGS AND RECOMMENDATION

On June 21, 2019, Enterprise personnel identified approximately 40 bbls of water/condensate within the 2B-23 drip tank secondary lined containment. The release of water/condensate resulted from the drip tank being vandalized. Enterprise subsequently removed the liquids from the secondary containment and initiated activities to facilitate the removal and replacement of the drip tank and to remediate potential petroleum hydrocarbon impact resulting from the release.

- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria using the New Mexico EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.
- A total of three (3) composite soil samples were collected from the floor of the excavation for laboratory analysis. Based on soil laboratory analytical results, soils remaining in place do not exhibit COC concentrations above the New Mexico EMNRD OCD closure criteria.
- A total of approximately seven (7) cy³ of petroleum hydrocarbon affected soils were transported to the Envirotech landfarm near Hilltop, New Mexico for disposal/remediation. The excavation was backfilled with imported fill and then contoured to surrounding grade.

Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

Enterprise Field Services, LLC
Closure Report
2B-23 Drip Tank Release
October 15, 2019 (Updated April 21, 2020)



9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties).

9.2 Additional Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings, and recommendations are based solely upon data available to Ensolum at the time of these services.

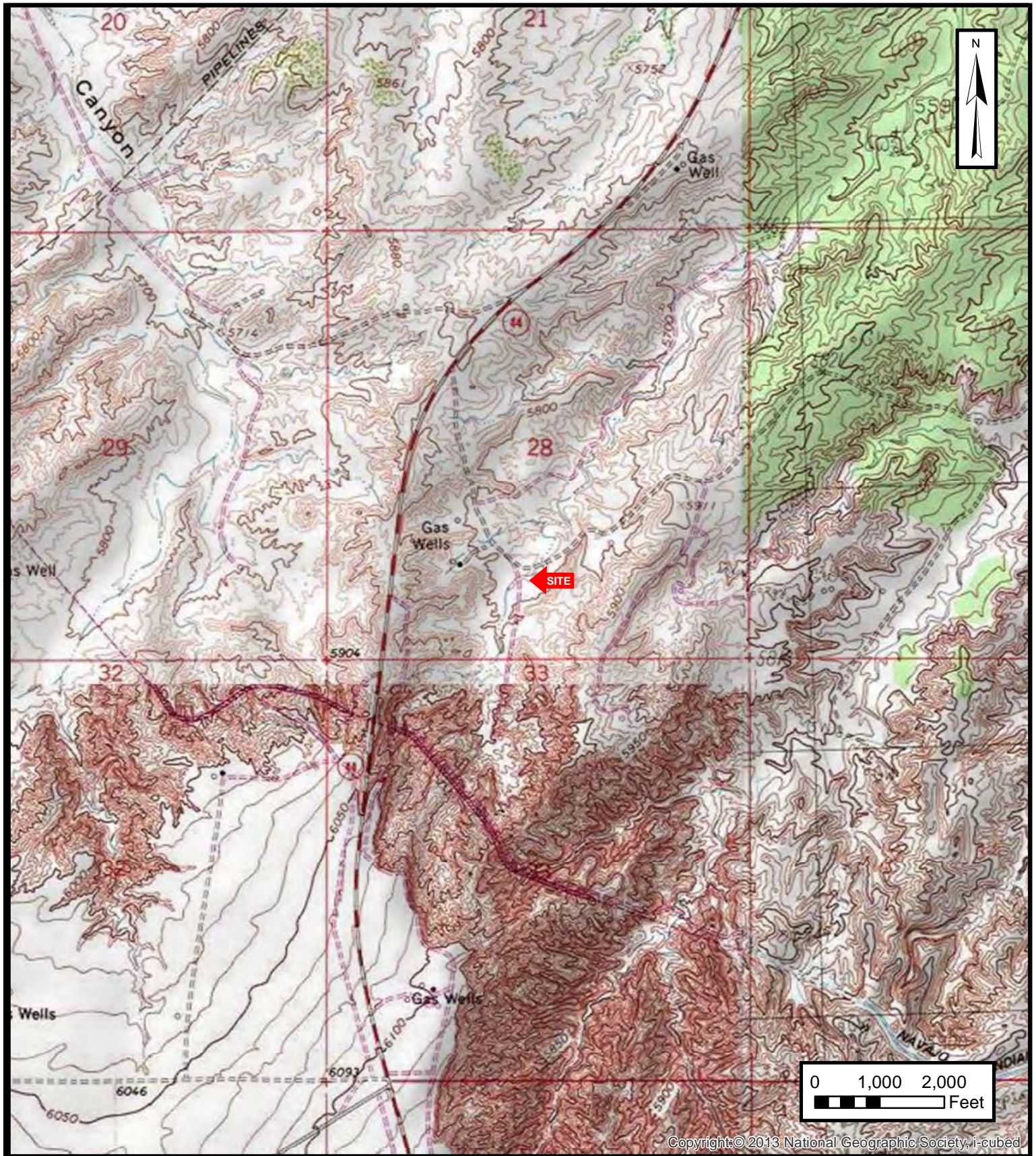
9.3 Reliance

This report has been prepared for the exclusive use of Enterprise Products Operating LLC, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization Enterprise Products Operating LLC and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the Closure Report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



APPENDIX A

Figures

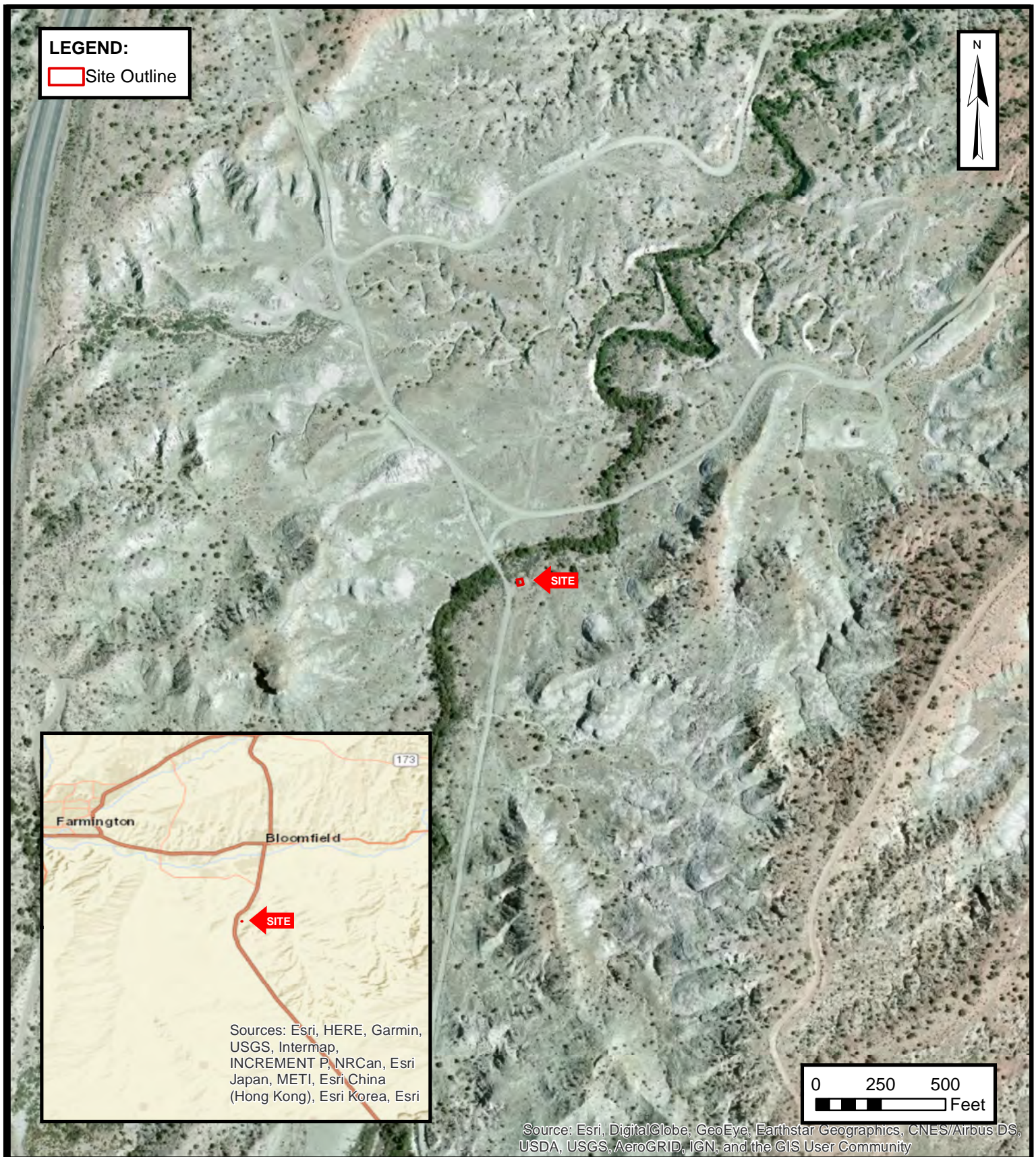


ENSOLUM
Environmental & Hydrogeologic Consultants

TOPOGRAPHIC MAP
ENTERPRISE FIELD SERVICES, LLC
2B-23 DRIP TANK RELEASE
SW ¼, S28 T28N R11W, San Juan County, New Mexico
36.628523° N, 108.010080° W

PROJECT NUMBER: 05A1226066

FIGURE
1



Environmental & Hydrogeologic Consultants

SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC
2B-23 DRIP TANK RELEASE
SW ¼, S28 T28N R11W, San Juan County, New Mexico
36.628523° N, 108.010080° W

PROJECT NUMBER: 05A1226066

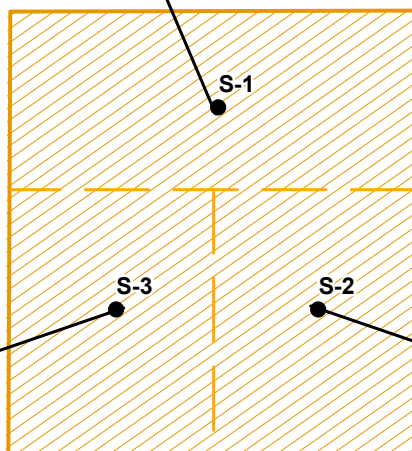
FIGURE**2**

LEGEND:

- Composite Soil Sample Location
- Footprint of the Former
Secondary Containment
(Scraped)



S-1
7/3/2019
(6")
Benzene...<0.018
Toluene...<0.036
Ethylbenzene...<0.036
Xylenes...<0.071
Total BTEX...ND
TPH GRO...<3.6
TPH DRO...<9.9
TPH MRO...<50
Total Combined TPH
GRO/DRO/MRO...ND
Chloride...<60



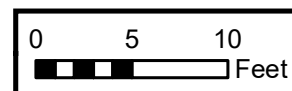
S-3
7/3/2019
(1")
Benzene...<0.019
Toluene...<0.038
Ethylbenzene...<0.038
Xylenes...<0.075
Total BTEX...ND
TPH GRO...<3.8
TPH DRO...<9.9
TPH MRO...<50
Total Combined TPH
GRO/DRO/MRO...ND
Chloride...<60

S-2
7/3/2019
(3")
Benzene...<0.019
Toluene...<0.038
Ethylbenzene...<0.038
Xylenes...<0.077
Total BTEX...ND
TPH GRO...<3.8
TPH DRO...<9.6
TPH MRO...<48
Total Combined TPH
GRO/DRO/MRO...ND
Chloride...<59

NOTES:

All Concentrations Are Listed
in mg/Kg.

All Depths Are Listed in Inches BGS.

**SITE MAP WITH SOIL ANALYTICAL RESULTS**

ENTERPRISE FIELD SERVICES, LLC
2B-23 DRIP TANK RELEASE
SW ¼, S28 T28N R11W, San Juan County, New Mexico
36.628523° N, 108.010080° W

PROJECT NUMBER: 05A1226066

FIGURE
3



APPENDIX B

Executed C-138 Solid Waste Acceptance Form

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-138
Revised August 1, 2011
*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: 2. Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401	Invoice Information: PM: Aron Lucero Pay Key: RB21200-15404
3. Originating Site: Lateral 2B-23 Drip Tank (6-21-19 release)	
4. Location of Material (Street Address, City, State or ULSTR): UL N Section 28 T28N R11W; 36.628523, -108.010080	
4. Source and Description of Waste: Hydrocarbon impacted soil/sludge from remediation activities associated with a natural gas pipeline release. Estimated Volume <u>5</u> ^{yd³} / bbls Known Volume (to be entered by the operator at the end of the haul) <u>7</u> ^{yd³} / bbls	
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, <u>Brian Stone</u> representative or authorized agent for <u>Enterprise Field Services, LLC</u> do hereby <small>PRINT & SIGN NAME COMPANY NAME</small> certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) <input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. <i>Operator Use Only: Waste Acceptance Frequency</i> <input type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input type="checkbox"/> Per Load <input type="checkbox"/> RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) <input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4)	
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS	
I, <u>7-3-19</u> , representative for <u>Enterprise Field Services, LLC</u> authorize Envirotech, Inc. to Generator Signature complete the required testing/sign the Generator Waste Testing Certification.	
I, <u>Greg Crabtree</u> , representative for <u>Envirotech, Inc.</u> do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.	
Transporter: TBD	

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: **Envirotech, Inc. Soil Remediation Facility * Permit #: NM 01-0011**
 Address of Facility: **Hilltop, NM**

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ **APPROVED**

☐ **DENIED (Must Be Maintained As Permanent Record)**

PRINT NAME: Greg Crabtree

TITLE: Enviro Manager DATE: 7/3/19

SIGNATURE: [Signature]
 Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: 505-632-0605



APPENDIX C

Photographic Documentation

SITE PHOTOGRAPHS

Enterprise Field Services, LLC
2B-23 Drip Tank Release
Ensolum Project No. 05A1226066

**Photograph 1**

Photograph Description: View of the scraped area.

**Photograph 2**

Photograph Description: View of the scraped area.

**Photograph 3**

Photograph Description: View of the scraped area.





APPENDIX D

Table 1 – Soil Analytical Summary



TABLE 1
2B-23 Drip Tank Release
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (inches)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department, Oil Conservation Division, Closure Criteria				10	NE	NE	NE	50				100	600
Final Confirmation Composite Soil Samples													
S-1	7.03.19	C	6	<0.018	<0.036	<0.036	<0.071	ND	<3.6	<9.9	<50	ND	<60
S-2	7.03.19	C	3	<0.019	<0.038	<0.038	<0.077	ND	<3.8	<9.6	<48	ND	<59
S-3	7.03.19	C	1	<0.019	<0.038	<0.038	<0.075	ND	<3.8	<9.9	<50	ND	<60

Note: Concentrations in **bold** and yellow exceed the applicable NM EMNRD Closure Criteria

ND = Not Detected above the Practical Quantitation Limits

NA = Not Analyzed

NE = Not established

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

TPH = Total Petroleum Hydrocarbon



APPENDIX E

Laboratory Data Sheets & Chain of Custody Documentation



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 10, 2019

Kyle Summers

ENSOLUM

606 S. Rio Grande Suite A

Aztec, NM 87410

TEL: (903) 821-5603

FAX:

RE: 2B 23 Drip Tank

OrderNo.: 1907226

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 3 sample(s) on 7/4/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1907226

Date Reported: 7/10/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-1

Project: 2B 23 Drip Tank

Collection Date: 7/3/2019 8:05:00 AM

Lab ID: 1907226-001

Matrix: SOIL

Received Date: 7/4/2019 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	60		mg/Kg	20	7/5/2019 1:34:21 PM	46021
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/5/2019 9:58:16 AM	46018
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/5/2019 9:58:16 AM	46018
Surr: DNOP	98.0	70-130		%Rec	1	7/5/2019 9:58:16 AM	46018
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	7/5/2019 11:34:24 AM	G61171
Surr: BFB	101	73.8-119		%Rec	1	7/5/2019 11:34:24 AM	G61171
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	7/5/2019 11:34:24 AM	B61171
Toluene	ND	0.036		mg/Kg	1	7/5/2019 11:34:24 AM	B61171
Ethylbenzene	ND	0.036		mg/Kg	1	7/5/2019 11:34:24 AM	B61171
Xylenes, Total	ND	0.071		mg/Kg	1	7/5/2019 11:34:24 AM	B61171
Surr: 4-Bromofluorobenzene	94.2	80-120		%Rec	1	7/5/2019 11:34:24 AM	B61171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 7

Analytical Report

Lab Order 1907226

Date Reported: 7/10/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-2

Project: 2B 23 Drip Tank

Collection Date: 7/3/2019 8:10:00 AM

Lab ID: 1907226-002

Matrix: SOIL

Received Date: 7/4/2019 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	59		mg/Kg	20	7/5/2019 1:46:46 PM	46021
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/5/2019 10:20:23 AM	46018
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/5/2019 10:20:23 AM	46018
Surr: DNOP	93.9	70-130		%Rec	1	7/5/2019 10:20:23 AM	46018
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	7/5/2019 11:57:05 AM	G61171
Surr: BFB	103	73.8-119		%Rec	1	7/5/2019 11:57:05 AM	G61171
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	7/5/2019 11:57:05 AM	B61171
Toluene	ND	0.038		mg/Kg	1	7/5/2019 11:57:05 AM	B61171
Ethylbenzene	ND	0.038		mg/Kg	1	7/5/2019 11:57:05 AM	B61171
Xylenes, Total	ND	0.077		mg/Kg	1	7/5/2019 11:57:05 AM	B61171
Surr: 4-Bromofluorobenzene	95.6	80-120		%Rec	1	7/5/2019 11:57:05 AM	B61171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 7

Analytical Report

Lab Order 1907226

Date Reported: 7/10/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-3

Project: 2B 23 Drip Tank

Collection Date: 7/3/2019 8:15:00 AM

Lab ID: 1907226-003

Matrix: SOIL

Received Date: 7/4/2019 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	60		mg/Kg	20	7/5/2019 1:59:11 PM	46021
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/5/2019 10:42:31 AM	46018
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/5/2019 10:42:31 AM	46018
Surr: DNOP	93.6	70-130		%Rec	1	7/5/2019 10:42:31 AM	46018
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	7/5/2019 12:19:45 PM	G61171
Surr: BFB	101	73.8-119		%Rec	1	7/5/2019 12:19:45 PM	G61171
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	7/5/2019 12:19:45 PM	B61171
Toluene	ND	0.038		mg/Kg	1	7/5/2019 12:19:45 PM	B61171
Ethylbenzene	ND	0.038		mg/Kg	1	7/5/2019 12:19:45 PM	B61171
Xylenes, Total	ND	0.075		mg/Kg	1	7/5/2019 12:19:45 PM	B61171
Surr: 4-Bromofluorobenzene	92.8	80-120		%Rec	1	7/5/2019 12:19:45 PM	B61171

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 3 of 7

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: **1907226****10-Jul-19****Client:** ENSOLUM**Project:** 2B 23 Drip Tank

Sample ID: MB-46021	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 46021	RunNo: 61175								
Prep Date: 7/5/2019	Analysis Date: 7/5/2019	SeqNo: 2074356	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-46021	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 46021	RunNo: 61175								
Prep Date: 7/5/2019	Analysis Date: 7/5/2019	SeqNo: 2074357	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 4 of 7

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1907226

10-Jul-19

Client: ENSOLUM**Project:** 2B 23 Drip Tank

Sample ID: LCS-46018	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 46018		RunNo: 61157							
Prep Date: 7/5/2019	Analysis Date: 7/5/2019		SeqNo: 2073055		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	112	63.9	124			
Surr: DNOP	4.8		5.000		95.8	70	130			

Sample ID: MB-46018	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 46018		RunNo: 61157							
Prep Date: 7/5/2019	Analysis Date: 7/5/2019		SeqNo: 2073056		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		89.8	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1907226

10-Jul-19

Client: ENSOLUM**Project:** 2B 23 Drip Tank

Sample ID: RB	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: G61171			RunNo: 61171						
Prep Date:	Analysis Date: 7/5/2019			SeqNo: 2073623		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	73.8	119			

Sample ID: 2.5UG GRO LCS	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: G61171			RunNo: 61171						
Prep Date:	Analysis Date: 7/5/2019			SeqNo: 2073811		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.0	80.1	123			
Surr: BFB	1200		1000		116	73.8	119			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1907226

10-Jul-19

Client: ENSOLUM
Project: 2B 23 Drip Tank

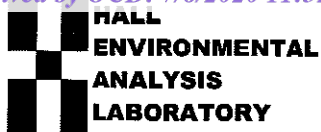
Sample ID: RB	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: B61171	RunNo: 61171								
Prep Date:	Analysis Date: 7/5/2019	SeqNo: 2073637	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.2	80	120			

Sample ID: 100NG BTEX LCS	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: B61171	RunNo: 61171								
Prep Date:	Analysis Date: 7/5/2019	SeqNo: 2073638	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.8	80	120			
Toluene	0.94	0.050	1.000	0	93.6	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: ENSOLUM AZTEC

Work Order Number: 1907226

RcptNo: 1

Received By: Andy Freeman

7/4/2019 8:05:00 AM

Completed By: Anne Thorne

7/5/2019 7:42:47 AM

Reviewed By: DAD 7/5/19

Andy Freeman
Anne Thorne

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved bottles checked for pH: 1
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

16. Additional remarks:

custody seals intact on all jars / 07/05/19

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good	Yes			



APPENDIX F

Regulatory Correspondence

From: [Smith, Cory, EMNRD](#)
To: [Stone, Brian](#)
Cc: [Long, Thomas](#)
Subject: RE: Lateral 2B-23 Drip Tank
Date: Tuesday, July 9, 2019 9:32:54 AM

Brian,

OCD has processed the initial C-141 for the site and has assigned it the below highlighted incident# please use this number on all future communication/submittals the signed copy will be scanned to 3RP-1011 asap

NCS1919034097 LATERAL 2B-23 DRIP TANK @ FJK1424831933

General Incident Information

Site Name: LATERAL 2B-23 DRIP TANK

Well:

Facility: [\[fJK1424831933\]](#) ENTERPRISE SAN JUAN PIPELINE 3R-1011

Operator: [\[151618\]](#) ENTERPRISE FIELD SERVICES L.L.C.

Status: Closure Not Approved

Type: Oil Release

District: Aztec

Severity:

Surface Owner: Federal

County: San Juan (45)

Incident Location: N-28-28N-11W Lot: 0 FNL 0 FEL

Lat/Long: 36.628523,-108.0100801 NAD83

Directions:

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Smith, Cory, EMNRD
Sent: Wednesday, July 3, 2019 1:19 PM

To: 'Stone, Brian' <bmstone@eprod.com>
Cc: Long, Thomas (tjlong@eprod.com) <tjlong@eprod.com>
Subject: RE: Lateral 2B-23 Drip Tank

Brian,

Sorry I missed your call, if the liner integrity has been compromised Enterprise needs to make sure that the soils beneath it are not impacted the samples you collected typically need to have notification per [19.15.29.12](#) NMAC.

I am ok with Enterprise collecting the sample today, however if the location is on Federal land Enterprise need to get BLM approval.

Please include this and BLM approval in your final C-141. If you have additional questions please give me a call.

Thank you,

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Stone, Brian <bmstone@eprod.com>
Sent: Wednesday, July 3, 2019 8:25 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Subject: [EXT] RE: Lateral 2B-23 Drip Tank

Cory, there was some surface staining probably due to liner damage from the demolition work. We scraped up 5yds total.

From: Stone, Brian
Sent: Tuesday, July 2, 2019 3:51 PM
To: 'Smith, Cory, EMNRD' <Cory.Smith@state.nm.us>
Subject: RE: Lateral 2B-23 Drip Tank

Not that we know about. It was OK during service.

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Sent: Tuesday, July 2, 2019 3:42 PM

To: Stone, Brian <bmstone@eprod.com>

Subject: RE: Lateral 2B-23 Drip Tank

Brian,

Did the liner have integrity issues?

Cory Smith

Environmental Specialist

Oil Conservation Division

Energy, Minerals, & Natural Resources

1000 Rio Brazos, Aztec, NM 87410

(505)334-6178 ext 115

cory.smith@state.nm.us

From: Stone, Brian <bmstone@eprod.com>

Sent: Tuesday, July 2, 2019 3:35 PM

To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>

Subject: [EXT] Lateral 2B-23 Drip Tank

FYI,

We plan to remove the liner tomorrow and will probably be ready to sample on Friday.

This message (including any attachments) is confidential and intended for a specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.



APPENDIX G

Siting Documentation



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:

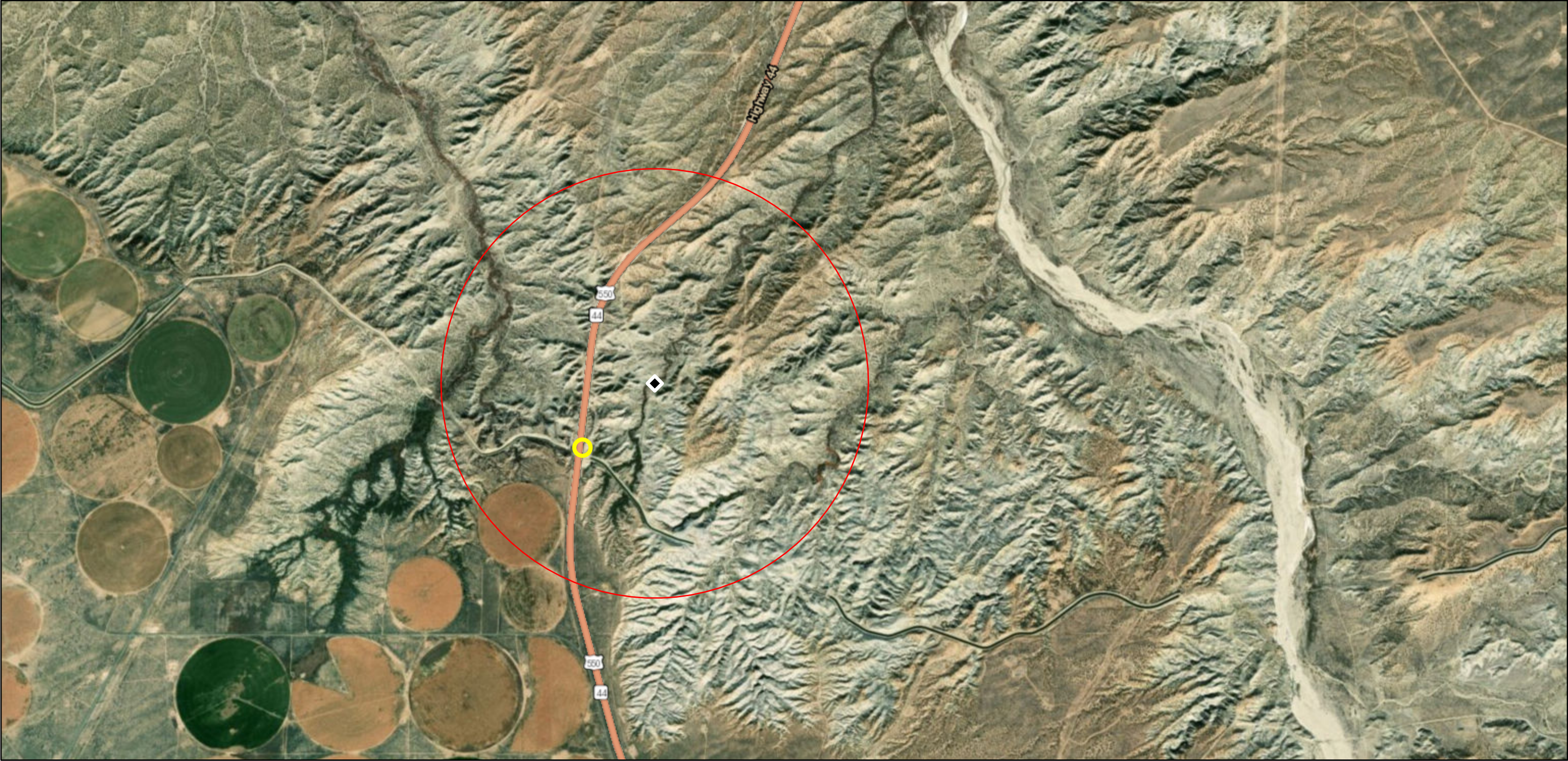
Section(s): 20, 21, 22, 27, 28, **Township:** 28N **Range:** 11W
29, 32, 33, 34

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/21/20 12:25 PM

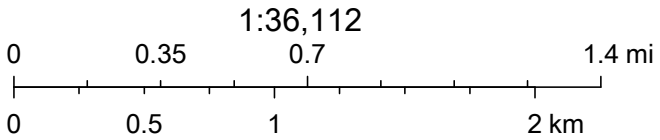
WATER COLUMN/ AVERAGE
DEPTH TO WATER

OSE PODs - 1 Mile Radius



4/20/2020, 11:55:23 AM

OSE District Boundary



Esri, HERE, Garmin, (c) OpenStreetMap contributors, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and

OSE PODs - 1 Mile Radius

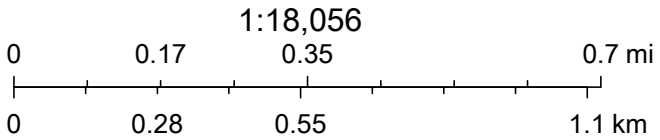


4/20/2020, 11:56:36 AM

 OSE District Boundary

GIS WATERS PODs

 Pending



Esri, HERE, Garmin, (c) OpenStreetMap contributors, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and



New Mexico Office of the State Engineer

Water Right Summary


[get image list](#)

WR File Number: SP 04019

Subbasin: SJM2

Cross Reference: -

Primary Purpose: HWY HIGHWAY CONSTRUCTION

Primary Status: EXP EXPIRED

Total Acres: 0

Subfile: -

Header: -

Total Diversion: 0

Cause/Case: -

Owner: BURNETT CONSTRUCTION COMPANY

Documents on File


[get images](#)

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
327026	CPDPP	1987-07-08	PMT	APR	SP 04019	T	0	75	

Current Points of Diversion

POD Number	Well Tag	Source	Q Q Q			(NAD83 UTM in meters)			Other Location Desc
			64	16	4	Sec	Tws	Rng	
SP 04019 1			1	1	33	28N	11W	230295	4057423*
SP 04019 2			3	3	10	27N	11W	231763	4052945*

An () after northing value indicates UTM location was derived from PLSS - see Help

Priority Summary

Priority	Status	Acres	Diversion	Pod Number	Source
09/16/1957	EXP	0	0	SP 04019 1	
				SP 04019 2	

Place of Use

Q Q Q Q				Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
256	64	16	4										
				10	27N	11W	0	0		HWY	09/16/1957	EXP	INCLUDED IN PREVIOUS DESCRIPTION.
				33	28N	11W	0	0		HWY	09/16/1957	EXP	

Source


Acres	Diversion	CU	Use	Priority	Source Description
0	0		HWY	09/16/1957	SW

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer

Point of Diversion Summary

POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
SP 04019 1	1	1	33	28N	11W		230295	4057423* 

River Name: SAN JUAN AREA 1

Source: Surface

Ditch Name:

Start Date:

Finish Date:

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/20/20 1:41 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

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

POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
SP 04019 2		3	3	10	27N	11W	231763	4052945*



River Name: SAN JUAN AREA 1

Source: Surface

Ditch Name:

Start Date:

Finish Date:

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/20/20 1:41 PM

POINT OF DIVERSION SUMMARY

(EXECUTE IN LPLICATE ACCOMPANIED BY \$10.00 FILING FEE)

APPLICATION FOR PERMIT TO DIVERT
CONTRACT WATER ON THE SAN JUAN RIVER

327026

DATE RECEIVED: June 2, 1986 FILE NO. 4019NAME: Burnett Construction CompanyADDRESS: P.O. Box 2707 Durango, Colorado, 81302

CITY AND STATE: _____

QUANTITY OF EXCHANGE WATER TO BE DIVERTED:

75 Acre Feet

PERIOD OF USE:

April 1 to December 31, 1986

STATE ENGINEER'S OFFICE
SANTA FE, NEW MEXICO

86 JUN 2 AM 11:22

SOURCE OF WATER:

San Juan Contract Water held by the Secretary of the Interior and purchased by applicant under contract No. 6-07-40-R0250.

POINT OF DIVERSION:

1. NW $\frac{1}{4}$ NW $\frac{1}{4}$, SEC. 33, T-28N, R-11W, NMPM, from the Navajo Indian Irrigation Project Canal at it's intersection with New Mexico Highway 44, 6.25 miles south of Bloomfield.
2. SW $\frac{1}{4}$ SW $\frac{1}{4}$, SEC. 10, T-27N, R-11W, NMPM from the Navajo Indian Irrigation Project upper canal at it's intersection with New Mexico Highway 44, 9.5 miles south of Bloomfield.

PURPOSE OF USE:

Highway Construction and Related.

PLACE OF USE:

New Mexico State Highway Department Project No. F-033-2(19) & ST-(F)-033-2(19) on New Mexico Highway 44 beginning 3miles and ending 8.5 miles south of Bloomfield.

I, Ronald W. Pettigrew, Vice-President

AFFIRM THAT THE FOREGOING STATEMENTS ARE TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Burnett Construction Company, PERMITTEEBy: Ronald W. Pettigrew
Ronald W. Pettigrew, Vice-PresidentSUBSCRIBED AND SWORN TO BEFORE ME THIS 28th DAY OF May,
A.D., 1986.Donnelly H. Japley
NOTARY PUBLIC

MY COMMISSION EXPIRES:

1 Jackson Place
Durango, CO 813019-1-89

APPROVAL OF STATE ENGINEER

Number of this permit	<u>4019</u>	Formal Application received	<u>June 2, 1986</u>
Date returned for correction		Date received corrected	
Publication of Notice ordered	<u>6/27/86</u>	Name of Paper	<u>Farmington Daily Times</u>
Affidavit of Publication filed	<u>8/21/86</u>	Date of approval	<u>July 8, 1987</u>

This application is approved provided it is not exercised to the detriment of any others having prior valid and existing rights to the use of the waters of this stream system and is not detrimental to the public welfare or contrary to the conservation of water within the state subject to the following conditions:

1. Total diversion of water under this permit shall not exceed 75 acre-feet, less carriage losses as determined by the State Engineer.
2. All diversion of water under this permit shall be measured by a meter of a type and at locations approved by and installed in a manner acceptable to the State Engineer.
3. Records of the diversion shall be submitted to the State Engineer.
4. The permit shall be exercised in accordance with contract with the U.S. Department of Interior, Bureau of Reclamation.

This is to certify that I have examined the above Application for Permit to Divert contract water on the San Juan River of the State of New Mexico and hereby approve the same subject to the foregoing provisions and conditions.

Witness my hand and official seal this 8th day of July, A.D., 1987.

S. E. Reynolds
State Engineer

By: R. Q. Rogers
R. Q. Rogers, Assistant Chief
Water Rights Division

SEE EVENT # 1032168 FOR MAP IMAGE

Click on Back link (above event at top of page) for list of events

MAP EVENT SHEET



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

July 8, 1987

BATAAN MEMORIAL BUILDING
STATE CAPITOL
SANTA FE, NEW MEXICO 87503

File No. 4019

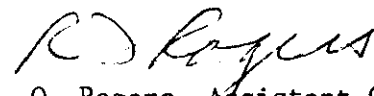
Mr. John Siegrist
Burnett Construction Company
Post Office Box 2707
Durango, Colorado 81302

Dear Mr. Siegrist:

Enclosed is your copy of the above-numbered Application for Permit to Divert Contract Water on the San Juan River which has been approved subject to the conditions contained on the reverse side of the permit.

Sincerely,

S. E. Reynolds
State Engineer

By: 
R. Q. Rogers, Assistant Chief
Water Rights Division

RQR:rav

Enclosure

MEMORANDUM OF RECOMMENDATION**DATE:** June 10, 1987**FILE NO.** 4019**TO:** R. Q. Rogers, assistant Chief, Water Rights Division**FROM:** Bill Enenbach, Aztec Office *BE***SUBJECT:** Application for Permit to Divert Contract Water on the San Juan River.**APPLICANT:** Burnett Construction Company

APPLICATION: For 75 acre-feet of Bureau of Reclamation contract water released from Navajo Reservoir and diverted into the Navajo Indian Irrigation Project Canal and then pumped from the canal at two locations and used on New Mexico Highway 44, south of Bloomfield for highway construction and related purposes. The period of use is April 1 to December 31, 1986.

	SUBDIVISION	SECTION	TOWNSHIP	RANGE
DIVERSION	NW1/4 NW1/4	33	28N	11W
	SW1/4 SW1/4	10	27N	11W

PLACE OF USE

New Mexico Highway 44 beginning 3 miles and ending 8.5 miles south of Bloomfield.

CONSIDERATIONS:

Application was filed June 2, 1986 and Publication was on July 31, August 7 and 14, 1986. Affidavit of Publication was received August 21, 1986. No protests were received.

The applicant contracted with the Bureau of Reclamation for 50 acre-feet on March 19, 1986. On May 22, 1986, the Bureau increased the contracted amount to 100 acre-feet and though the applicant wanted to decrease the amount to 75 acre-feet, due to miscommunication, on July 7, 1986 the contracted amount was increased to 125 acre-feet. The author requested a diversion report which was received in the Aztec Office June 9, 1987. The report shows a metered diversion from the canal of 69 acre-feet.

Note that the period of use in the application is for April 1, 1986 to December 31, 1986, therefore application 4019 will be expired upon approval.

CONCLUSION:

It is concluded that the application, if approved under the recommended conditions is not detrimental to existing water rights, not contrary to the conservation of water within New Mexico, nor detrimental to the public welfare of New Mexico.

RECOMMENDATIONS:

Approval is recommended provided that:

1. Total diversion of water under this permit shall not exceed 75 acre-feet, less carriage losses as determined by the State Engineer.
2. All diversion of water under this permit shall be measured by a meters of a type and at locations approved by and installed in a manner acceptable to the State Engineer.
3. Records of the diversion shall be submitted to the State Engineer.
4. The permit shall be exercised in accordance with contract with the U.S. Department of Interior, Bureau of Reclamation.

Donner 6/19, 37

DMP

07 AUG 19 P 1:40

AFFIDAVIT OF PUBLICATION

No. 18692

STATE OF NEW MEXICO,
County of San Juan:

Margaret Billingsley being duly
sworn, says: That he is the Sec. to the Publisher of
THE FARMINGTON DAILY TIMES, a daily newspaper of general circulation
published in English at Farmington, said county and state, and that the
hereto attached legal notice

was published in a regular and entire issue of the said FARMINGTON DAILY
TIMES, a daily newspaper duly qualified for the purpose within the
meaning of Chapter 167 of the 1937 Session Laws of the State of New
Mexico for three consecutive days (weeks) on the same day as
follows:

First Publication Thursday, July 31, 1986
Second Publication Thursday, August 7, 1986
Third Publication Thursday, August 14, 1986
Fourth Publication _____

and that payment therefor in the amount of \$ 55.91
has been made.

Margaret Billingsley
Subscribed and sworn to before me this 14th day
of August, 19 86.

Connie Tyson
NOTARY PUBLIC, SAN JUAN COUNTY, NEW MEXICO
My Commission expires: July 3, 1989

Cert of Publication

NOTICE
NOTICE is hereby given that on June 2, 1986, Burnett Construction Company, PO Box 2707, Durango, Colorado 81302 filed application number 4019 with the STATE ENGINEER for permit to Divert Contract Water on the San Juan River for 75 acre-feet to be used from April 1, 1986 to December 31, 1986. The source of water is San Juan River Contract Water held in Navajo Reservoir by the Secretary of the Interior and purchased by the applicant under contract no. 6-07-40-R0250, to be diverted at a point in the NW¼NW¼ Section 33, Township 28N, Range 11W, NMPM, from the Navajo Indian Irrigation Project canal at its intersection with N.M. Highway 44, 6.25 miles South of Bloomfield, N.M., and at a point in the SW¼SW¼ Section 10, Township 27N, Range 11W, NMPM from the NIIP upper canal at its intersection with NM Highway 44, 9.5 miles South of Bloomfield, NM. The water is to be used for highway construction and related purposes. The place of use is on NM Highway 44 beginning 3 miles South of Bloomfield, NM and ending 8.5 miles South of Bloomfield, NM.
Any person, firm or corporation or other entity objecting that the granting of the application will be detrimental to the objector's water right shall have standing to file objections or protests. Any person, firm or corporation or other entity objecting that the granting of the application will be contrary to the conservation of water within the state or detrimental to the public welfare of the state and showing that the objector will be substantially and specifically affected by the granting of the application shall have standing to file objections or protests. Provided, however, that the state of New Mexico or any of its branches, agencies, departments, boards, instrumentalities or institutions, and all political subdivisions of the state and their agencies, instrumentalities and institutions shall have standing to file objections or protests. The protest or objections shall be in writing and shall set forth all protestant's or objector's reasons why the application should not be approved and must be filed, in triplicate, with S.E. Reynolds, State Engineer, Bataan Memorial Building, Room 101, Santa Fe, New Mexico, 87532, within ten (10) days after the date of the last publication of this Notice.
Legal No. 18692 published in the Farmington Daily Times, Farmington, New Mexico on Thursdays, July 31, August 7 and 14, 1986.

86 AUG 21 A 9: 00

STATE ENGINEER OFFICE
SANTA FE NEW MEXICO



United States Department of the Interior

BUREAU OF RECLAMATION
UPPER COLORADO REGIONAL OFFICE
P.O. BOX 11568
SALT LAKE CITY, UTAH 84147

IN REPLY
REFER TO: UC-440

JUL 7 1986

36 JUL 10 4 8: 50
STATE ENGINEER OFFICE
SANTA FE NEW MEXICO

Mr. John Siegrist, Jr.
Project Superintendent
Burnett Construction Company
P.O. Box 2707
Durango, Colorado 81320

Dear Mr. Siegrist:

In our May 22, 1986, letter we amended at your request your present water service contract to include 50 additional acre-feet of industrial water from Navajo Reservoir. Since that time you have determined that your needs will only require 25 additional acre-feet rather than 50. To accommodate your request, your contract No. 6-07-40-R0250, will be for a total amount of 125 acre-feet of industrial water from Navajo Reservoir. All other provisions of your contract will remain as is.

We are in receipt of your payment of \$1,025 for the additional 25 acre-feet of water.

If you have any questions, please contact Carol Fowler at (801) 524-4419.

Sincerely yours,

W. J. Hirschi

FOR

Clifford I. Barrett
Regional Director

cc: Mr. S.E. Reynolds
New Mexico State Engineer
Bataan Memorial Building
Santa Fe, New Mexico 87530

Mr. Albert Keller
General Manager
Navajo Agricultural Products Industries
P.O. Drawer 1318
Farmington, New Mexico 87499

State Engineer Office
Aztec NM 87410

JUL 30 1986
BE 4:00 PM

Copy for Mr. W. J. Hirschi



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

June 27, 1986

BATAAN MEMORIAL BUILDING
STATE CAPITOL
SANTA FE, NEW MEXICO 87503

Mr. John Siegrist
Burnett Construction Company
P. O. Box 2707
Durango, Colorado 81302

File: 4019

Dear Mr. Siegrist:

Enclosed please find Notice of Publication for the above-numbered file. Please have said Notice published and proof of publication filed in this office according to instructions.

Sincerely,

S. E. Reynolds
State Engineer

By: Bill Enenbach
Bill Enenbach
Water Rights Division

SER:BE:lg

Enclosure: noted

AZULC, New Mexico
June 27, 1986

Mr. John Siegrist
Burnett Construction Company
P. O. Box 2707
Durango, Colorado 81302
Dear Mr. Siegrist :

The following notice shall be published at applicant's expense once a week for three (3) consecutive weeks in a newspaper of general circulation in the stream system, or in case of an underground water appropriation the County wherein the well is to be drilled. First publication should be made as soon as possible after receipt of this notice. Publisher's affidavit of such publication must be filed with the State Engineer within sixty (60) days from the date hereon. If the application is for a new appropriation, failure to file proof of publication within the time allowed shall cause postponement of the priority date of the application to the date of receipt of such proof in proper form. In the case of any other type of application, failure to file proofs within the time allowed will cause the application to be cancelled.

The accuracy as to the content of this Notice is the responsibility of the applicant and the State Engineer is not obligated for any additional expense incurred by the necessity of readvertisement.

Neither issuance of this Notice, nor lack of protest thereto, in any way indicates favorable action by the State Engineer or approval of the application as requested.

S. E. Reynolds, State Engineer

Bill Enenbach

Bill Enenbach, Water Rights Division

NOTE TO PUBLISHER: Immediately after last publication, publisher is requested to file affidavit of such publication with the State Engineer, Bataan Memorial Building, Room 101, Santa Fe, New Mexico 87503.

NOTICE is hereby given that on June 2, 1986, Burnett Construction Company,
P.O. Box 2707, Durango, Colorado, 81302
filed application(s) number(s) 4019
with the STATE ENGINEER for permit(s) to

Divert contract water on the San Juan River for 75 acre-feet to be used from April 1, 1986 to December 31, 1986. The source of water is San Juan River Contract Water held in Navajo Reservoir by the Secretary of the Interior and purchased by the applicant under Contract No. 6-07-40-R0250, to be diverted at a point in the NW $\frac{1}{4}$ NW $\frac{1}{4}$, Section 33, Township 28N, Range 11W, N.M.P.M. from the Navajo Indian Irrigation Project canal at its intersection with N.M. Highway 44, 6.25 miles south of Bloomfield, N.M. and at a point in the SW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 10, Township 27N, Range 11W, N.M.P.M. from the NIIP upper canal at its intersection with N.M. Highway 44, 9.5 miles south of Bloomfield, N.M. The water is to be used for highway construction and related purposes. The place of use is on New Mexico Highway 44 beginning 3 miles south of Bloomfield, N.M. and ending 8.5 miles south of Bloomfield, N.M.

Any Person, firm or corporation or other entity objecting that the granting of the application will be detrimental to the objector's water right shall have standing to file objections or protests. Any person, firm or corporation or other entity objecting that the granting of the application will be contrary to the conservation of water within the state or detrimental to the public welfare of the state and showing that the objector will be substantially and specifically affected by the granting of the application shall have standing to file objections or protests. Provided, however, that the state of New Mexico or any of its branches, agencies, departments, boards, instrumentalities or institutions, and all political subdivisions of the state and their agencies, instrumentalities and institutions shall have standing to file objections or protests. The protest or objections shall be in writing and shall set forth all protestant's or objector's reasons why the application should not be approved and must be filed, in triplicate, with S. E. Reynolds, State Engineer, Bataan Memorial Building, Room 101, Santa Fe, New Mexico 87532, within ten (10) days after the date of the last publication of this Notice.

. Released to Imaging: 2/4/2021 8:45:28 AM



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

May 23, 1986

BATAAN MEMORIAL BUILDING
STATE CAPITOL
SANTA FE, NEW MEXICO 87503

File 4019

John J. Siegrist, Jr.
Burnett Construction Company
P. O. Box 2707
Durango, Colorado 81302

Dear Sir:

As per our conversation on 5-22-86, I have enclosed an Application for Permit to Divert Contract Water on the San Juan River. I have enclosed an example, using the one filed by the Highway Department. Please review the information on the example and make appropriate changes. Please send in two typed, signed and notarized originals along with the \$10.00 filing fee. I will also need a map showing the location of the pumping point from the NAPI canal and the stretch of highway where the water will be used. You can use USGS maps, or copies of them, for the base map on which this information is shown.

Sincerely,

S. E. Reynolds
State Engineer

By: *Bill Enenbach*
Bill Enenbach
Water Rights Division

Enclosures

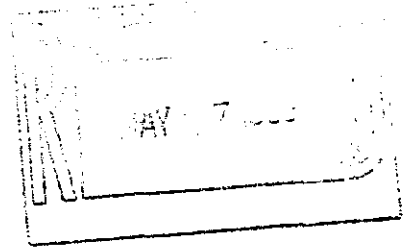


United States Department of the Interior

BUREAU OF RECLAMATION
UPPER COLORADO REGIONAL OFFICE
P.O. BOX 11568
SALT LAKE CITY, UTAH 84147

IN REPLY
REFER TO: UC-443
832.

MAY 22 1986



Mr. John Siegrist, Jr.
Project Superintendent
Burnett Construction Company
P.O. Box 2707
Durango, Colorado 81320

Dear Mr. Siegrist:

We have received your request to increase the amount of industrial water in your present contract from 50 acre-feet to 100 acre-feet of water from Navajo Reservoir. We are granting that request with this letter.

It is understood that all provisions of your contract No. 6-07-40-R0250, other than the amount of acre-feet and the total payment, will remain as is. Your payment for the additional water will be at the same rate as stated in your contract of \$41.00 an acre-foot and should be forwarded to this office within 2 weeks.

If you have any questions, please contact Carol Fowler at (801) 524-4419.

Sincerely

For Clifford I. Barrett
Regional Director

cc: Mr. S. E. Reynolds
New Mexico State Engineer
Bataan Memorial Building
Santa Fe, New Mexico 87503

Mr. Albert Keller
General Manager
Navajo Agricultural Products Industries
P.O. Drawer 1318
Farmington, New Mexico 87499



United States Department of the Interior

BUREAU OF RECLAMATION
UPPER COLORADO REGIONAL OFFICE
P.O. BOX 11568
SALT LAKE CITY, UTAH 84147

86 MAR 21 A 9:03

IN REPLY
REFER TO: UC-440
382.

MAR 19 1986

STATE ENGINEER OFFICE
SANTA FE NEW MEXICO

Mr. John Siegrist, Jr.
Project Superintendent
Burnett Construction Company
P.O. Box 2707
Durango, Colorado 81302

Dear Mr. Siegrist:

Enclosed for your records is one fully executed interim water service contract for 50 acre-feet of water from Navajo Reservoir for industrial use for a period of 1 year. A copy of this contract is being sent to the New Mexico State Engineer and also to the General Manager of the Navajo Agricultural Projects Industries.

We appreciate the cooperation you have given us during the processing of this contract. If you have any questions or need additional information, please call Carol Fowler at (801) 524-4419.

Sincerely yours,

W. J. Hirschi

FOR
Clifford I. Barrett
Regional Director

Enclosure

cc: Mr. S.E. Reynolds
New Mexico State Engineer
Bataan Memorial Building
Santa Fe, New Mexico 87503

Mr. Albert Keller
General Manager
Navajo Agricultural Products Industries
P.O. Drawer 1318
Farmington, New Mexico 87499

6-07-40-R0250

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION

COLORADO RIVER STORAGE PROJECT

CONFORMED COPY

NAVAJO UNIT

INTERIM CONTRACT BETWEEN THE UNITED STATES AND
BURNETT CONSTRUCTION COMPANY
FOR FURNISHING WATER

THIS CONTRACT, made this 19th day of March 1986,
pursuant to the Act of Congress approved June 17, 1902 (32 Stat. 388),
and acts amendatory thereof or supplementary thereto, and particularly
pursuant to the Colorado River Storage Project Act approved April 11, 1956
(70 Stat. 105), between THE UNITED STATES OF AMERICA, hereinafter referred to
as the United States, represented by the officer executing this contract, his
duly appointed successor or his duly authorized representative, hereinafter
referred to as the Contracting Officer, and the Burnett Construction Company,
a company organized under the laws of the State of Colorado, with an office at
Durango, Colorado, hereinafter referred to as the Contractor,

WITNESSETH:

WHEREAS, the following statements are made in explanation:

(a) The United States has constructed Navajo as a unit of the
Colorado River Storage Project, for the furnishing of water for irrigation,
municipal, industrial and other beneficial uses.

(b) The Contractor is in need of a water supply for industrial
use in the area for road construction, and water is available on a temporary
basis to supply the Contractor from Navajo Reservoir.

NOW, THEREFORE, in consideration of the mutual and dependent
covenants herein contained, the parties hereto agree as follows:

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TERM OF CONTRACT

1. This contract shall be effective for 1 year from the date of the execution of this contract. This contract is contingent upon a diversion permit being issued by the State of New Mexico and/or a diversion agreement with the Navajo Agricultural Products Industry (NAPI) for diversion of the water from the Navajo Canal.

WATER DELIVERY

2. The United States grants the Contractor the right, during the term of this contract, to have delivered from Navajo Reservoir, as hereinafter provided, 50 acre-feet of water at such times as best suits its needs and the Contractor shall pay for the water as provided in Article 4.

FOR INDUSTRIAL USE ONLY

3. The water sold hereunder shall be used by the Contractor only for industrial use. The Contractor shall prepare and furnish such reports on water use and related data as required by the Contracting Officer.

RATE AND METHOD OF PAYMENT FOR WATER

4. The Contractor shall pay in advance for the quantity of water which it has contracted to take and pay for, whether or not it actually takes and uses such water, at a rate of \$40.00 per acre-foot, plus \$1.00 per acre-foot for operation and maintenance charges as follows:

<u>Water Contracted</u> <u>(acre-feet)</u>	<u>Annual Payment</u> <u>(Based on \$41.00)</u> <u>per acre-foot</u>
50	\$2,050.00

Art. 1,2,3,4

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4 MEASUREMENT AND RESPONSIBILITY FOR DISTRIBUTION
5

6 5. (a) The water to be furnished to the Contractor will be measured by
7
8 facilities of the United States at the outlet works of Navajo Reservoir. The
9
10 Contractor shall suffer all distribution and administration losses from the
11
12 point of such delivery to the place of use. The Contractor agrees to provide
13
14 a measuring device, which is acceptable to the Contracting Officer, at or near
15
16 the Contractor's point of diversion, to measure the quantity of water deli-
17
18 vered and diverted under this contract. If diversion occurs from the Navajo
19
20 Canal the Contractor will coordinate releases and diversions with the Navajo
21
22 Agricultural Products Industry. The Contractor is responsible for making
23
24 arrangements with the State of New Mexico and others needed for the transpor-
25
26 tation and diversion of such water. The Contractor shall pay any charges from
27
28 the New Mexico State Engineer's Office and/or the Navajo Agricultural Products
29
30 Industry for the distribution, handling, or administration of this water.

31
32 (b) The United States shall not be responsible for the control,
33
34 carriage, handling, use, disposal, or distribution of water taken by the
35
36 Contractor hereunder, and the Contractor shall hold the United States harmless
37
38 on account of damage or claim of damage of any nature whatsoever, including
39
40 property damage, personal injury or death arising out of or connected with the
41
42 control, carriage, handling, use, disposal, or distribution of such water by
43
44 the Contractor.

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46 (c) This contract and all water taken pursuant thereto shall be
47
48 subject to and controlled by the Colorado River Compact dated November 24,
49
50 1922, and proclaimed by the President of the United States, June 25, 1929,
51
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Art. 5

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4 the Boulder Canyon Project Act approved December 21, 1928, the Boulder
5
6 Canyon Project Adjustment Act of July 19, 1940, the Upper Colorado River
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8 Basin Compact dated October 11, 1948, the Mexican Water Treaty of February 3,
9
10 1944, and the Colorado River Basin Project Act of September 30, 1968, Public
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12 Law 90-537. In the event water available to the Contractor is required to
13
14 be curtailed under and by reason of the provisions of the foregoing acts,
15
16 including the reaching of maximum use of water allotted to the State of New
17
18 Mexico, no liability shall attach to the United States for such curtailment,
19
20 and the Contractor agrees to reduction of the amount of water taken hereunder
21
22 as the Secretary determines necessary to comply with the provisions of said
23
24 acts.

25
26
27 UNITED STATES NOT LIABLE FOR WATER SHORTAGE - ADJUSTMENTS
28

29 6. On account of drought, errors in operation, or other causes, there
30
31 may occur at times, a shortage during any year in the quantity of water
32
33 available to the Contractor by the United States pursuant to this contract
34
35 through and by means of the project, and in no event shall any liability
36
37 accrue against the United States or any of its officers, agents, or employees
38
39 for any damage direct or indirect, arising therefrom. In any year in which
40
41 there may occur such a shortage, the United States reserves the right to
42
43 apportion the available water supply among the Contractor and others entitled,
44
45 under existing and future contracts, to receive water from the same project
46
47 water supply all in a manner to be prescribed by the Contracting Officer.
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50 Art. 5,6
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NOTICES

7: Any notice, demand, or request authorized or required by this contract shall be deemed to have been given, on behalf of the Contractor when mailed, postage prepaid, or delivered to the Regional Director, Upper Colorado Region, Bureau of Reclamation, P.O. Box 11568, 125 South State State, Salt Lake City, Utah 84147, and on behalf of the United States, when mailed, postage prepaid, or delivered, to the Burnett Construction Company, 25825 Highway 160-550 South, Durango, Colorado 81302. The designation of the addressee or the address may be changed by notice given in the same manner as provided in this article for other notices.

STANDARD CONTRACT ARTICLES

8. The standard contract articles applicable to this contract are listed below. The full text of these standard articles is attached as Exhibit A and is hereby made a part of this contract.

- A. Contingent Upon Appropriation or Allotment of Funds
- B. Officials Not To Benefit
- C. Assignment Limited - Successor's and Assigns Obligated
- D. Books, Records, and Reports
- E. Rules, Regulations, and Determinations
- F. Quality of Water
- G. Water and Air Pollution Control
- H. Equal Opportunity
- I. Compliance with Civil Rights Laws and Regulations

Art. 7,8

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IN WITNESS WHEREOF, the parties hereto have signed their names
the day and year first above written.

THE UNITED STATES OF AMERICA

(seal)

W. M. Cox

By:

[Signature]

Regional Director
Bureau of Reclamation

Acting

ATTEST:

ATTEST:

(Seal)

BURNETT CONSTRUCTION COMPANY

By:

Ronald W. Pettigrew

Ronald W. Pettigrew
Vice-President

ATTEST:

[Signature]

EXHIBIT A

A. CONTINGENT ON APPROPRIATION OR ALLOTMENT OF FUNDS

The expenditure or advance of any money or the performance of any obligation of the United States under this contract shall be contingent upon appropriation or allotment of funds. Absence of appropriation or allotment of funds shall not relieve the Contractor from any obligations under this contract. No liability shall accrue to the United States in case funds are not appropriated or allotted.

B. OFFICIALS NOT TO BENEFIT

No Member of or Delegate to Congress; Resident Commissioner or official of the Contractor shall benefit from this contract other than as a water user or landowner in the same manner as other water users or landowners.

C. ASSIGNMENT LIMITED--SUCCESSORS AND ASSIGNS OBLIGATED

The provisions of this contract shall apply to and bind the successors and assigns of the parties hereto, but no assignment or transfer of this contract or any right or interest therein shall be valid until approved in writing by the Contracting Officer.

D. BOOKS, RECORDS AND REPORTS

The Contractor shall establish and maintain accounts and other books and records pertaining to administration of the terms and conditions of this contract, including: the Contractor's financial transactions, water supply data, project operation, maintenance and replacement logs, and project land and right-of-way use agreements; the water users' land-use (crop census), land-ownership, land-leasing and water-use data; and other matters that the Contracting Officer may require. Reports thereon shall be furnished to the Contracting Officer in such form and on such date or dates as the Contracting Officer may require. Subject to applicable Federal laws and regulations, each party to this contract shall have the right during office hours to examine and make copies of the other party's books and records relating to matters covered by this contract.

E. RULES, REGULATIONS, AND DETERMINATIONS

(a) The parties agree that the delivery of water or the use of Federal facilities pursuant to this contract is subject to Reclamation law, as amended and supplemented, and the rules and regulations promulgated by the Secretary of the Interior under Reclamation law.

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4 (b) The Contracting Officer shall have the right to make deter-
5 minations necessary to administer this contract that are consistent with
6 the expressed and implied provisions of this contract, the laws of the
7 United States and the State, and the rules and regulations promulgated by
8 the Secretary of the Interior. Such determinations shall be made in con-
9 sultation with the Contractor:
10

11
12 F. QUALITY OF WATER
13

14 The operation and maintenance of project facilities shall be performed
15 in such manner as is practicable to maintain the quality of raw water made
16 available through such facilities at the highest level reasonably attainable,
17 as determined by the Contracting Officer. The United States does not
18 warrant the quality of water and is under no obligation to construct or
19 furnish water treatment facilities to maintain or better the quality of
20 water.
21

22
23 G. WATER AND AIR POLLUTION CONTROL
24

25 The Contractor, in carrying out this contract, shall comply with all
26 applicable water and air pollution laws and regulations of the United
27 States and the State of New Mexico, and shall obtain all required permits
28 or licenses from the appropriate Federal, State, or local authorities.
29

30
31 H. EQUAL OPPORTUNITY
32

33 During the performance of this contract, the Contractor agrees as follows:
34

35 1. The Contractor will not discriminate against any employee or
36 applicant for employment because of race, color, religion, sex, or national
37 origin. The Contractor will take affirmative action to ensure that applicants
38 are employed, and that employees are treated during employment, without
39 regard to their race, color, religion, sex, or national origin. Such
40 action shall include, but not be limited to, the following: Employment,
41 upgrading, demotion, or transfer; recruitment or recruitment advertising;
42 layoff or termination; rates of pay or other forms of compensation; and
43 selection for training, including apprenticeship. The Contractor agrees to
44 post in conspicuous places, available to employees and applicants for
45 employment, notices to be provided by the Contracting Officer setting
46 forth the provisions of this nondiscrimination clause.
47

48 2. The Contractor will, in all solicitations or advertisements for
49 employees placed by or on behalf of the Contractor, state that all qualified
50 applicants will receive consideration for employment without discrimination
51 because of race, color, religion, sex, or national origin.
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4 3. The Contractor will send to each labor union or representative of
5 workers, with which it has a collective bargaining agreement or other
6 contract or understanding, a notice, to be provided by the Contracting
7 Officer, advising the said labor union or workers' representative of the
8 Contractor's commitments under Section 202 of Executive Order 11246 of
9 September 24, 1965, and shall post copies of the notice in conspicuous
10 places available to employees and applicants for employment.
11

12 4. The Contractor will comply with all provisions of Executive
13 Order No. 11246 of September 24, 1965, as amended, and of the rules,
14 regulations, and relevant orders of the Secretary of Labor.
15

16 5. The Contractor will furnish all information and reports required
17 by said amended Executive Order and by the rules, regulations, and orders of
18 the Secretary of Labor, or pursuant thereto, and will permit access to its
19 books, records, and accounts by the Contracting Officer and the Secretary of
20 Labor for purposes of investigation to ascertain compliance with such rules,
21 regulations, and orders.
22

23 6. In the event of the Contractor's noncompliance with the nondiscrim-
24 ination clauses of this contract or with any of the such rules, regulations,
25 or orders, this contract may be canceled, terminated, or suspended, in whole
26 or in part, and the Contractor may be declared ineligible for future Government
27 contracts in accordance with procedures authorized in said amended Executive
28 Order, and such other sanctions may be imposed and remedies invoked as
29 provided in said Executive Order, or by rule, regulation, or order of the
30 Secretary of Labor, or as otherwise provided by law.
31

32 7. The Contractor will include the provisions of paragraphs (1)
33 through (7) in every subcontract or purchase order unless exempted by the
34 rules, regulations, or orders of the Secretary of Labor issued pursuant to
35 Section 204 of said amended Executive Order, so that such provisions will be
36 binding upon each subcontractor or vendor. The Contractor will take such
37 action with respect to any subcontract or purchase order as may be directed
38 by the Secretary of Labor as a means of enforcing such provisions, including
39 sanctions for noncompliance: Provided, however, That in the event the
40 Contractor becomes involved in, or is threatened with, litigation with a
41 subcontractor or vendor as a result of such direction, the Contractor may
42 request the United States to enter into such litigation to protect the
43 interests of the United States.
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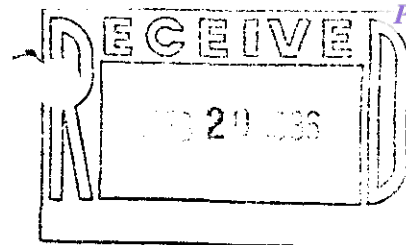
I. COMPLIANCE WITH CIVIL RIGHTS LAWS AND REGULATIONS

(a) The Contractor shall comply with Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d), Section 504 of the Rehabilitation Act of 1975 (P.L. 93-112, as amended), the Age Discrimination Act of 1975 (42 U.S.C. 6101, et seq.) and any other applicable civil rights laws, as well as with their respective implementing regulations and guidelines imposed by the U.S. Department of the Interior and/or Bureau of Reclamation,

(b) These statutes require that no person in the United States shall, on the grounds of race, color, national origin, handicap, or age, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity receiving financial assistance from the Bureau of Reclamation. By executing this contract, the Contractor agrees to immediately take any measures necessary to implement this obligation, including permitting officials of the United States to inspect premises, programs, and documents.

(c) The Contractor makes this agreement in consideration of and for the purpose of obtaining any and all Federal grants, loans, contracts, property discounts or other Federal financial assistance extended after the date hereof to the Contractor by the Bureau of Reclamation, including installment payments after such date on account of arrangements for Federal financial assistance which were approved before such date. The Contractor recognizes and agrees that such Federal assistance will be extended in reliance on the representations and agreements made in this article, and that the United States reserves the right to seek judicial enforcement thereof.

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- AGREEMENT -

This Agreement, dated this 3rd day of February, 1986, by and between Navajo Agricultural Products Industries, whose address is P.O. Drawer 1318, Farmington, New Mexico 87499, hereinafter referred to as NAPI; and Burnett Construction Company, whose address is P.O. Box 2707, Durango, Colorado 81302, hereinafter referred to as BURNETT.

W I T N E S S E T H :

That BURNETT desires to have water, purchased by BURNETT from the United States Bureau of Reclamation and now stored in Navajo Reservoir, delivered to the point where the main NAPI irrigation canal intersects New Mexico Highway 44 in San Juan County, New Mexico. The means of delivery shall be through the above mentioned canal.

THE PARTIES AGREE:

1. That for the consideration of Ten Cents (\$0.10) per 1,000 gallons, NAPI will deliver water, not to exceed 50 acre feet, to BURNETT during that time in the year of 1986 that the above mentioned canal is in operation.
2. BURNETT shall order water from NAPI 24 hours in advance of the time it will be needed.
3. BURNETT shall provide an accurate meter to measure all water taken from the canal by BURNETT. Payment for water delivered shall be based on readings taken from said meter on the 25th day of each month.
4. BURNETT shall have the right of ingress and egress to and from the canal on the existing access road from Highway 44, and shall have the right to erect temporary structures and equipment and to employ reasonable methods for removal of the water from the canal.
5. BURNETT shall conduct operations so as not to unduly interfere with NAPI's ability to operate and maintain the canal.
6. BURNETT shall leave the premises in a neat condition upon completion of operations.

NAVAJO AGRICULTURAL PRODUCTS INDUSTRIES

By: Albert H. Kell
Title: Gen. mgr.
Date: 2/18/86

BURNETT CONSTRUCTION COMPANY

By: John J. Siegrist Jr.
Title: SUPERINTENDANT
Date: 2/4/86

AFFIDAVIT OF PUBLICATION

No. 18692

STATE OF NEW MEXICO,
County of San Juan:

Margaret Billingsley being duly
sworn, says: That he is the Sec. to the Publisher of
THE FARMINGTON DAILY TIMES, a daily newspaper of general circulation
published in English at Farmington, said county and state, and that the
hereto attached legal notice

was published in a regular and entire issue of the said FARMINGTON DAILY
TIMES, a daily newspaper duly qualified for the purpose within the
meaning of Chapter 167 of the 1937 Session Laws of the State of New
Mexico for three consecutive /// (days) (weeks) on the same day as
follows:

First Publication Thursday, July 31, 1986
Second Publication Thursday, August 7, 1986
Third Publication Thursday, August 14, 1986
Fourth Publication _____

and that payment therefor in the amount of \$ 55.91
has been made.

Margaret Billingsley
Subscribed and sworn to before me this 14th day
of August, 19 86.

Connie Syon
NOTARY PUBLIC, SAN JUAN COUNTY, NEW MEXICO
My Commission expires: July 3, 1989

Cert of Publication

NOTICE

NOTICE is hereby given that on June 2, 1986, Burnett Construction Company, PO Box 2707, Durango, Colorado 81302 filed application number 4019 with the STATE ENGINEER for permit to Divert Contract Water on the San Juan River for 75 acre-feet to be used from April 1, 1986 to December 31, 1986. The source of water is San Juan River Contract Water held in Navajo Reservoir by the Secretary of the Interior and purchased by the applicant under contract no. 6-07-40-R0250, to be diverted at a point in the NW¼NW¼ Section 33, Township 28N, Range 11W, NMPM, from the Navajo Indian Irrigation Project canal at its intersection with N.M. Highway 44, 6.25 miles South of Bloomfield, N.M., and at a point in the SW¼SW¼ Section 10, Township 27N, Range 11W, NMPM from the NIIP upper canal at its intersection with NM Highway 44, 9.5 miles South of Bloomfield, NM. The water is to be used for highway construction and related purposes. The place of use is on NM Highway 44 beginning 3 miles South of Bloomfield, NM and ending 8.5 miles South of Bloomfield, NM.

Any person, firm or corporation or other entity objecting that the granting of the application will be detrimental to the objector's water right shall have standing to file objections or protests. Any person, firm or corporation or other entity objecting that the granting of the application will be contrary to the conservation of water within the state or detrimental to the public welfare of the state and showing that the objector will be substantially and specifically affected by the granting of the application shall have standing to file objections or protests. Provided, however, that the state of New Mexico or any of its branches, agencies, departments, boards, instrumentalities or institutions, and all political subdivisions of the state and their agencies, instrumentalities and institutions shall have standing to file objections or protests. The protest or objections shall be in writing and shall set forth all protestant's or objector's reasons why the application should not be approved and must be filed, in triplicate, with S.E. Reynolds, State Engineer, Bataan Memorial Building, Room 101, Santa Fe, New Mexico, 87532, within ten (10) days after the date of the last publication of this Notice.

Legal No. 18692 published in the Farmington Daily Times, Farmington, New Mexico on Thursdays, July 31, August 7 and 14, 1986.

86 AUG 21 A 9:00

STATE ENGINEER OFFICE
SANTA FE NEW MEXICO

30-045-24121

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO

(Submit 3 copies to OCD Aztec Office)

Operator ARCO Oil and Gas Company Location: Unit E Sec. 28 Twp 28N Rng 11W
Name of Well/Wells or Pipeline Serviced Krause WN Fed. #5E

Elevation 5802' Completion Date 11/07/84 Total Depth 250' Land Type* F-SF078863
Casing, Sizes, Types & Depths Open hole, 7-7/8"

RECEIVED

FEB 25 1991

If Casing is cemented, show amounts & types used OIL CON. DIV. 1
DIST. 3

If Cement or Bentonite Plugs have been placed, show depths & amounts used

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. Not available.

Depths gas encountered: None
Type & amount of coke breeze used: Hole filled with metallurgical coke breeze from bottom to surface
Depths anodes placed: Anode tops at 235', 225', 215', 205', 195', 185', 175', 165'
Depths vent pipes placed: 240' to 3' above ground
Vent pipe perforations: 1/8" holes every 6" from 240' to 165'
Remarks: 3" x 60" graphite anodes

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

Data Sheet No. 5

COMPANY ARCO OIL AND GAS CO. JOB No. 248 DATE: 11-7-84
 WELL: KRAUSE SE PIPELINE _____
 LOCATION: SEC. 28 TWP. 28N RGE. 11W CO. SAN JUAN STATE NEW MEXICO
 ELEV. _____ ft. ROTARY _____ ft. CABLE TOOL _____ ft. CASING _____ ft.
 GROUND BED: DEPTH 250 ft. DIA. 7 7/8 in. GAB ±1500 lbs. ANODES 8-3"X60" UCAR 79

DEPTH. FT.	DRILLER'S LOG	FINAL ANODE TO STRUCTURE			EXPLORING ANODE TO STRUCTURE			DEPTH TOP OF ANODES
		E	I	R	E	I	R	
50	0-10 BROWN SANDY SHALE	15.0			15.0	1.0		
55	10-30 BLUE SHALE					1.2		
60	30-50 SOFT SAND STONE					1.2		
65	50-100 SANDY BLUE SHALE					1.7		
70	100-180 BLUE SHALE - DAMP					2.1		
75	180-200 BLUE SAND					2.3		
80	200-250 SANDY BLUE SHALE					2.4		
85						2.2		
90						2.1		
95						2.2		
100						2.3		
5						2.1		
10						2.0		
15						1.6		
20						1.4		
25						1.5		
30						1.5		
35						1.5		
40						1.6		
45						1.7		
50						1.5		
55						1.5		
60						1.2		
65			2.6			1.3		#8
70						1.2		
75			3.4			1.3		#7
80						1.7		
85			3.3			1.2		#6
90						1.2		
95			4.6			1.9		#5
200						3.1		
5			6.4			3.1		#4
10						3.2		
15			6.5			3.1		#3
20						2.7		
25			4.2			1.7		#2
30						1.6		
35			3.4			1.6		#1
40						1.5		
45								
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GROUNDED RESISTANCE: (1) VOLTS _____ • AMPS _____ OHMS

Corrosion Specialists, Ltd.

(2) VIBROGROUND _____ OHMS

30-045-24122

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator ARCO Oil and Gas Company Location: Unit P Sec. 28 Twp 28N Rng 11W
Name of Well/Wells or Pipeline Serviced Krause WN Fed. #2E

Elevation 5837' Completion Date 11/12/84 Total Depth 250' Land Type* F-SF078863
Casing, Sizes, Types & Depths Open hole, 7-7/8"

RECEIVED

FEB 25 1991

If Casing is cemented, show amounts & types used

**OIL CON. DIV.
DIST. 3**

If Cement or Bentonite Plugs have been placed, show depths & amounts used

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. Not available.

Depths gas encountered: None

Type & amount of coke breeze used: Hole filled with metallurgical coke breeze from bottom to surface
by slurry method.

Depths anodes placed: Anode tops at 235', 225', 215', 205', 195', 185', 175', 160'

Depths vent pipes placed: 240' to 3' above ground

Vent pipe perforations: 1/8" holes every 6" from 240' to 160'

Remarks: 3" x 60" graphite anodes

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

WELL TYPE GROUNDBED DATA

Data Sheet No. 3

COMPANY ARCO OIL AND GAS CO. JOB No. 248 DATE: 11-12-84
 WELL: KRAUSE 2-E PIPELINE _____
 LOCATION: SEC. 28 TWP. 28N RGE. 11W CO. SAN JUAN STATE NEW MEXICO
 ELEV. _____ ft. ROTARY _____ ft. CABLE TOOL _____ ft. CASING _____ ft.
 GROUNDBED: DEPTH 250 ft. DIA. 7 7/8 in. GAB ±1500 lbs. ANODES 8-3"X60" UCAR 79

DEPTH. FT.	DRILLER'S LOG	FINAL ANODE TO STRUCTURE			EXPLORING ANODE TO STRUCTURE			DEPTH TOP OF ANODES
		E	I	R	E	I	R	
50	0-75 SAND & SHALE	12.7			12.7	1.1		
55	75-160 SHALE/SAND STONE STRINGERS					.6		
60	160-250 SANDY SHALE /					.5		
65	SAND STONE STRINGERS					1.2		
70						.4		
75						.5		
80						.3		
85						.5		
90						.3		
95						.5		
100						.7		
5						1.4		
10						.9		
15						1.5		
20						1.8		
25						2.5		
30						2.3		
35						2.5		
40						3.1		
45						2.9		
50						3.1		
55						2.8		
60				3.9		1.7		#8
65						.8		
70						.9		
75				4.0		1.4		#7
80						1.5		
85				3.8		1.1		#6
90						1.1		
95				3.6		1.1		#5
200						.9		
5				3.7		1.2		#4
10						1.0		
15				3.2		1.0		#3
20						1.1		
25				2.8		1.0		#2
30						.9		
35				2.7		1.0		#1
40						1.0		
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GROUNDED RESISTANCE: (1) VOLTS _____ • AMPS _____ OHMS

Corrosion Specialists, Ltd.

(2) VIBROGROUND _____ OHMS

30-045-24288

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator ARCO Oil and Gas Company Location: Unit C Sec. 33 Twp 28N Rng 11W
Name of Well/Wells or Pipeline Serviced Krause WN Fed. #3E

Elevation 5864' Completion Date 11/10/84 Total Depth 250' Land Type* F-SF078863
Casing, Sizes, Types & Depths Open hole, 7-7/8"

RECEIVED

If Casing is cemented, show amounts & types used FEB 25 1991

OIL CON. DIV.

DIST. 3

If Cement or Bentonite Plugs have been placed, show depths & amounts used

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. Not available.

Depths gas encountered: None

Type & amount of coke breeze used: Hole filled with metallurgical coke breeze from bottom to surface
by slurry method.

Depths anodes placed: Anode tops at 230', 220', 210', 190', 180', 170', 160'

Depths vent pipes placed: 235' to 3' above ground

Vent pipe perforations: 1/8" holes every 6" from 250' to 160'

Remarks: 3" x 60" graphite anodes

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

WELL TYPE GROUND BED DATA

Data Sheet No. 5

COMPANY ARCO OIL AND GAS CO. JOB No. 248 DATE: 11-10-84
 WELL: KRAUSE 3E PIPELINE _____
 LOCATION: SEC. 33 TWP. 28N RGE. 11E CO. SAN JUAN STATE NEW MEXICO
 ELEV. _____ ft. ROTARY _____ ft. CABLE TOOL _____ ft. CASING _____ ft.
 GROUND BED: DEPTH 250 ft. DIA. 7 7/8 in. GAB ±1500 lbs. ANODES 8-3"X60" UCAR 79

DEPTH FT.	DRILLER'S LOG	FINAL ANODE TO STRUCTURE			EXPLORING ANODE TO STRUCTURE			DEPTH TOP OF ANODES
		E	I	R	E	I	R	
50	0-140 BLUE SANDY SHALE	12.6			12.6	2.0		
55	140-250 SOFT SAND STONE					2.1		
60	WITH SHALE STRINGERS					2.0		
65						1.8		
70						1.8		
75						1.2		
80						1.2		
85						1.1		
90						1.2		
95						1.2		
100						1.0		
5						1.0		
10						.9		
15						.7		
20						.8		
25						1.3		
30						1.6		
35						1.8		
40						1.9		
45						1.4		
50						2.1		
55						2.6		
60			4.1			1.8		#8
65						1.0		
70			4.1			1.0		#7
75						1.7		
80			3.0			1.6		#6
85						1.1		
90			1.8			1.2		#5
95						1.1		
200			2.5			1.0		#4
5						1.4		
10			3.5			1.4		#3
15						1.6		
20			3.7			1.7		#2
25						2.0		
30			2.5			1.4		#1
35						1.4		
40						1.2		
45						1.0		
50								

GROUND BED RESISTANCE: (1) VOLTS 12.4 + AMPS 10.2 - 1.2 OHMS

Corrosion Specialists, Ltd.

(2) VIBROGROUND _____ OHMS

30-045-07087

4979

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO

(Submit 3 copies to OCD Aztec Office)

Operator ARCO Oil and Gas Company Location: Unit B Sec. 33 Twp 28N Rng 11W
Name of Well/Wells or Pipeline Serviced Krause WN Fed. #4

Elevation 5961' Completion Date 11/10/84 Total Depth 250' Land Type* F-SF078863
Casing, Sizes, Types & Depths Open hole, 7-7/8"

RECEIVED

FEB 25 1991

If Casing is cemented, show amounts & types used OIL CON. DIV.
DIST. 3

If Cement or Bentonite Plugs have been placed, show depths & amounts used

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. Not available.

Depths gas encountered: None
Type & amount of coke breeze used: Hole filled with metallurgical coke breeze from bottom to surface
by slurry method.
Depths anodes placed: Anode tops at 245', 235', 225', 215', 205', 195', 185', 175'
Depths vent pipes placed: 250' to 3' above ground
Vent pipe perforations: 1/8" holes every 6" from 250' to 175'
Remarks: 3" x 60" graphite anodes

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

Data Sheet No. 6

COMPANY ARCO OIL AND GAS CO. JOB No. 248 DATE: 11-10-84
 WELL: KRAUSE 4 PIPELINE _____
 LOCATION: SEC. 33 TWP. 28N RGE. 11W CO. SAN JUAN STATE NEW MEXICO
 ELEV. _____ ft. ROTARY _____ ft. CABLE TOOL _____ ft. CASING _____ ft.
 GROUND BED: DEPTH 250 ft. DIA. 7 7/8 in. GAB ± 1500 lbs. ANODES 8-3"X60" UCAR 79

DEPTH. FT.	DRILLER'S LOG	FINAL ANODE TO STRUCTURE			EXPLORING ANODE TO STRUCTURE			DEPTH TOP OF ANODES
		E	I	R	E	I	R	
50	0-115 SAND & SHALE	13.6			13.6	2.6		
55	115-250 SANDY SHALE					2.7		
60	WITH SANDSTONE					2.7		
65	STRINGERS					2.9		
70						2.7		
75						2.3		
80						2.8		
85						3.1		
90						2.8		
95						2.7		
100						2.9		
5						2.9		
10						3.0		
15						2.8		
20						2.8		
25						2.9		
30						2.4		
35						2.4		
40						2.1		
45						2.4		
50						2.7		
55						2.5		
60						2.6		
65						2.2		
70						2.0		
75			3.7			1.6		#8
80						1.4		
85			3.1			1.2		#7
90						1.2		
95			2.4			1.0		#6
200						1.0		
5			2.0			1.0		#5
10						0.9		
15			2.0			1.1		#4
20						1.2		
25			3.7			1.9		#3
30						3.0		
35			4.4			2.5		#2
40						3.6		
45			5.8			4.0		#1
50						3.3		

GROUNDED RESISTANCE: (1) VOLTS _____ + AMPS _____ - _____ OHMS

Corrosion Specialists, Ltd.

(2) VIBROGROUND _____ OHMS

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 9141

CONDITIONS OF APPROVAL

Operator: ENTERPRISE FIELD SERVICES, LLC			PO Box 4324	Houston, TX77210	OGRID: 241602	Action Number: 9141	Action Type: C-141
OCD Reviewer					Condition		
csmith					None		