

Incident Number: nKMW0800954755, nKMW080054324, nMLB0608954436

Assessment and Closure Closure

Sawbuck Water Transfer Section 23, Township 20 South, Range 24 East County: Eddy Vertex File Number: 22E-00123-03

Prepared for: EOG Resources, Inc.

Prepared by: Vertex Resource Services Inc.

Date: July 2023 EOG Resources, Inc. Sawbuck Water Transfer Assessment and Closure July 2023

Assessment and Closure Sawbuck Water Transfer Section 23, Township 20 South, Range 24 East County: Eddy

Prepared for: **EOG Resources, Inc.** 104 S. 4th Street Artesia, New Mexico 88210

New Mexico Oil Conservation Division – District 2 811 S. 1st Street Artesia, New Mexico 88210

Prepared by: Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad, New Mexico 88220

Chance Difon

Chance Dixon, B.Sc. PROJECT MANAGER, REPORTING 7/19/2023

Date

EOG Resources, Inc.	Assessment and Closure
Sawbuck Water Transfer	July 2023

Table of Contents

1.0	Introduction	. 1
2.0	Incident Description	.1
3.0	Site Characteristics	. 1
4.0	Closure Criteria Determination	. 2
5.0	Remedial Actions Taken	. 2
6.0	Closure Request	. 3
7.0	References	. 4
8.0	Limitations	. 5

EOG Resources, Inc. Sawbuck Water Transfer

In-text Tables

- Table 1. Closure Criteria Determination
- Table 2. Closure Criteria for Soils Impacted by a Release

Vertex Figure

Vertex Table

List of Appendices

- Appendix A. NMOCD C 141 Report(s)
- Appendix B. Closure Criteria Research Documentation
- Appendix C. Daily Field and Sampling Report(s)
- Appendix D. Notification(s)
- Appendix E. Laboratory Data Report(s) and Chain of Custody Form(s)

Assessment and Closure July 2023

1.0 Introduction

EOG Resources, Inc. (EOG) retained Vertex Resource Services, Inc. (Vertex) to conduct an assessment for three historical produced water releases that occurred in 2006 at Sawbuck Water Transfer. Yates Petroleum Corporation (Yates) submitted an initial C-141 Release Notification (Appendix A) to New Mexico Oil Conservation Division (NMOCD) District 2 for all three incidents. Incident ID numbers nKMW0800954755, nKMW080054324, and nMLB0608954436 were assigned to the incidents. Yates submitted a remediation work plan that was approved by NMOCD and later submitted a closure report after the remedial activities were completed.

This report provides a description of the assessment associated with the visit by Vertex. The information presented demonstrates that closure criteria established in Table I of 19.15.29.12 of the *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) related to NMOCD has been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for the closure of these incidents, with the release site also meeting requirements instituted in 2018 per 19.15.29.13 NMAC.

2.0 Incident Description

The first release (nMLB0608954436) occurred on March 5, 2006, due to power failure and tank overflow. All fluids were contained inside the containment for the battery area. Vacuum trucks were dispatched to recover the free fluids and power was restored. The incident was received by NMOCD via C-141 on March 6, 2006, with a Remediation Work Plan submitted on July 21, 2006, and NMOCD approval of the Work Plan occurring August 1, 2006.

The second release (nKMW0800954324) occurred on August 31, 2006, due to power failure and tank overflow. All fluids were contained inside the plastic-lined berms for the battery area. Vacuum trucks were dispatched to recover the free fluids and power was restored. The incident was received by NMOCD via C-141 on September 1, 2006, with closure submitted on October 9, 2006.

The third release (nKMW0800954755) occurred on September 20, 2006, due to a check valve failure that blew a 12" VIC clamp off of the gun barrel riser. All fluids were contained inside the plastic-lined berms for the battery area. Vacuum trucks were dispatched to recover the free fluids. The incident was received by NMOCD on September 22, 2006, with closure submitted on October 9, 2006.

3.0 Site Characteristics

The site is located approximately 8.16 miles southwest of Seven Rivers, New Mexico. The legal location for the site is Section 23, Township 20 South and Range 24 East in Eddy County, New Mexico. The release area is located on the Bureau of Land Management (BLM) property. An aerial photograph and site schematic are presented in Figure 1.

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2023) indicates the site's surface geology primarily comprises Qp – Piedmont alluvial deposits (Holocene to lower Pleistocene). The predominant soil texture on the site is Pima silt and Reagan loam. The karst geology potential for the site is high (United States Department of the Interior, Bureau of Land Management, 2023).

EOG Resources, Inc. Sawbuck Water Transfer

The location was typical of oil and gas water disposals in the Permian Basin and was used for water disposal and transport.

The surrounding landscape is associated with rolling hills and fans with elevations ranging between 1,100 and 5,400 feet. The climate is semiarid with average annual precipitation ranging between 6 and 15 inches. The soil is well-drained with high runoff. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be Blue Grama. Creosote bush, mesquite, and catclaw mimosa are common shrubs (United States Department of Agriculture, Natural Resources Conservation Service, 2023).

4.0 Closure Criteria Determination

Using site characterization information, a closure criteria determination worksheet (Appendix B) was completed to determine if the releases were subject to any special case scenarios outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC. The nearest groundwater data is more than 25 years old and located more than 0.5 miles away from the release site; therefore, the depth to groundwater cannot be determined accurately. The closure for the site is determined to be associated with the following constituent concentration limits (Table 1).

Table 1. Closure Criteria for Soils Impacted by a Release							
Minimum depth below any point within the							
horizontal boundary of the release to groundwater							
less than 10,000 mg/l TDS	Constituent	Limit					
	Chloride	600 mg/kg					
< 50 feet	TPH (GRO+DRO+MRO)	100 mg/kg					
	BTEX	50 mg/kg					
	Benzene	10 mg/kg					

TDS – total dissolved solids

TPH – total petroleum hydrocarbons, GRO – gas range organics, DRO – diesel range organics, MRO – motor oil range organics BTEX – benzene, toluene, ethylbenzene and xylenes

5.0 Site Assessment

A remediation work plan for the first release was submitted to NMOCD on July 21, 2006. The work plan was approved by NMOCD on August 1, 2006. After remedial activities for the first release were completed, the second and third releases occurred and were fully contained in the newly lined containment area. Yates Petroleum Corporation (Yates) submitted a closure report for all three Incident IDs on October 9, 2006. Details pertaining to the remedial activities for all three releases are included in the Yates work plan and closure report included in Appendix A.

EOG retained Vertex to conduct a field investigation of any possible remaining impacts at the site prior to reclamation activities being commenced. Investigation efforts began on June 2, 2023, and were finalized on June 5, 2023. Field screening was completed on a total of 3 sample points. Vertex conducted the investigation with sample points BH23-03 through BH23-05 ranging between the surface and 1 foot bgs. After the investigation was completed, it was

determined that all samples were under NMOCD's strictest closure criteria, and it was deemed that no further investigation/remedial efforts are necessary. The DFR documenting the investigation is presented in Appendix C.

Notification that confirmatory composite samples were being collected was provided to NMOCD on May 31, 2023, and is included in Appendix D. Confirmatory samples were collected at 3 sample points (boreholes) throughout the containment area of the battery. A total of 6 samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Hall Environmental Analysis Laboratory under chain-of-custody protocols and analyzed for BTEX, TPH, and chlorides. Laboratory results are presented in Table 2, and the laboratory data reports are included in Appendix E.

Field screening was completed using Dexsil PetroFlag using EPA SW-846 Method 9074 (extractable hydrocarbons) and Hanna DiST EC Meter and HACH Chloride Test Kit (chlorides). Samples were analyzed at Hall Environmental Laboratory for BTEX (8021), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D), and total chlorides (EPA Method 300.0).

6.0 Closure Request

Vertex recommends no additional action to the site. Laboratory analyses of confirmation samples collected in the vicinities of the releases show final confirmatory values below NMOCD closure criteria for areas where depth to groundwater is less than 50 feet bgs as presented in Table 2. There are no anticipated risks to human, ecological, or hydrological receptors at this site.

Vertex requests that these incidents (nKMW0800954755, nKMW080054324, and nMLB0608954436) be closed as all closure requirements set forth at the time were met, and there is no standing exceedances to closure criteria at the site at this time. EOG certifies that all information in this report and the appendices are correct, and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain closure on the site.

Should you have any questions or concerns, please do not hesitate to contact Chance Dixon at 575.988.1472 or cdixon@vertex.ca.

7.0 References

Google Inc. (2022). Google Earth Pro (Version 7.3.3) [Software]. Retrieved from https://earth.google.com

- New Mexico Bureau of Geology and Mineral Resources. (2023). *Interactive Geologic Map*. Retrieved from https://maps.nmt.edu/
- New Mexico Department of Surface Water Quality Bureau. (2023). Assessed and Impaired Waters of New Mexico. Retrieved from https://gis.web.env.nm.gov/oem/?map=swqb
- New Mexico Energy, Minerals and Natural Resources Department. (2023). OCD Permitting Spill Search. Retrieved from https://wwwapps.emnrd.nm.gov/ocd/ocdpermitting/Data/Spills/Spills.aspx
- New Mexico Mining and Minerals Division. (2023). *Coal Mine Resources in New Mexico*. Retrieved from https://nmemnrd.maps.arcgis.com/apps/webappviewer/index.html?id=5f80f3b0faa545e58fe747cc7b037a93
- New Mexico Office of the State Engineer. (2023a). *Point of Diversion Location Report New Mexico Water Rights Reporting System*. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/wellSurfaceDiversion.html
- New Mexico Office of the State Engineer. (2023b). Water Column/Average Depth to Water Report New Mexico Water Rights Reporting System. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html
- New Mexico Office of the State Engineer. (2023c). Well Log/Meter Information Report New Mexico Water Rights Reporting System. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/meterReport.html
- New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.
- United States Department of Agriculture, Natural Resources Conservation Service. (2023). *Web Soil Survey*. Retrieved from https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
- United States Department of Homeland Security, Federal Emergency Management Agency. (2023). FEMA Flood Map Service: Search by Address. Retrieved from https://msc.fema.gov/portal/search?AddressQuery=malaga% 20new%20mexico#searchresultsanchor
- United States Department of the Interior, Bureau of Land Management. (2018). *New Mexico Cave/Karst*. Retrieved from https://www.nm.blm.gov/shapeFiles/cfo/carlsbad_spatial_data.html
- United States Geological Survey. (2023). National Water Information System: Web Interface. Retrieved from https://waterdata.usgs.gov/nwis
- United States Fish and Wildlife Service. (2023). *National Wetland Inventory Surface Waters and Wetlands*. Retrieved from https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/

Assessment and Closure July 2023

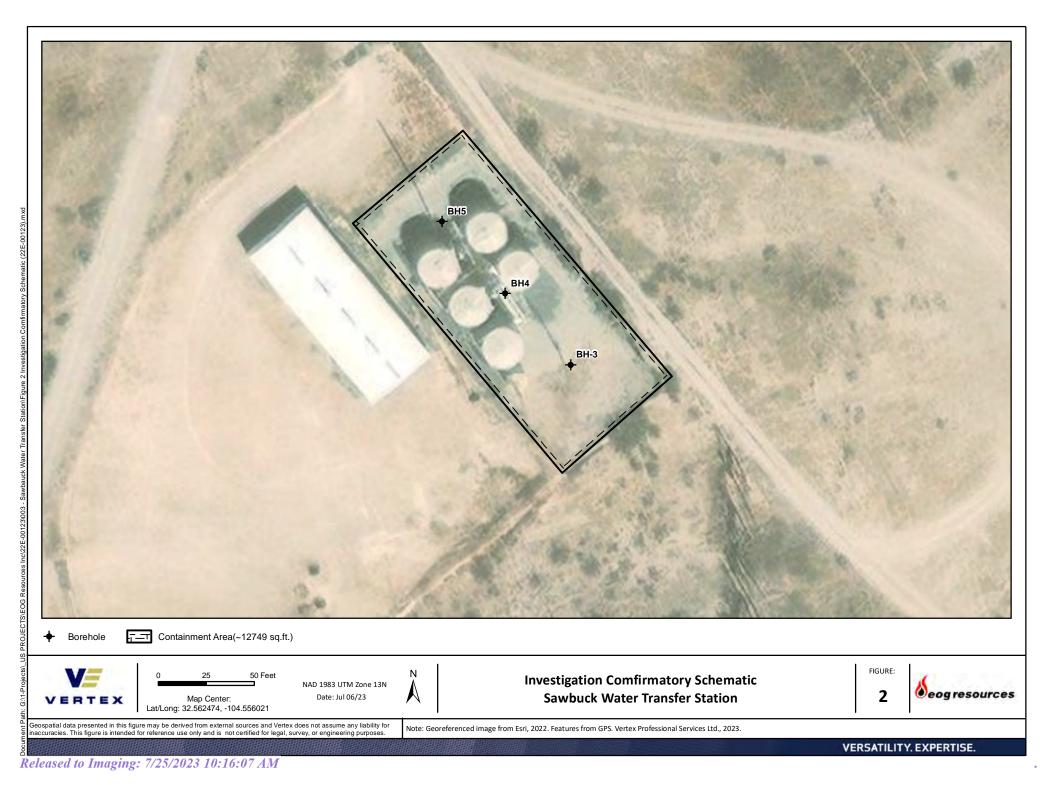
8.0 Limitations

This report has been prepared for the sole benefit of EOG Resources, Inc (EOG). This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and EOG. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgment of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

5

Vertex Figure



Vertex Table

Table 2. Investigation Confirmatory Laboratory Results - Depth to Groundwater <50 feet bgs EOG Resources Inc. Sawbuck Water Transfer NMOCD Tracking #: nKMW0800954755, nKMW080054324, and nMLB0608954436 Project #: 22E-00123-03

Lab Reports: 2306177 and 2306399

Sample Description			Petroleum Hydrocarbons									Inorganic	
Sample ID	Depth (ft)	Date	Benzene (m8/kg)	Toluene (w8/k8)	Ethylbenzene (8a/8a)	a) (a) (a) Total Xylenes	(g) (g) (f) (f) (f) (f) (f) (f) (f) (f) (f) (f	මු සී Gasoline Range Organics (GRO) සී	3) Regulation (DRO) Bayesel Range Organics (DRO)	මූ කීල් Motor Oil Range Organics (MRO) කී	(GRO + DRO) (gg/gg/) Total Petroleum Hydrocarbons (TPH) (63	(a) (chloride Concentration (de Concentration
	NMOCD - NMAC <5	0 ft 19.15.29 (2018)	10	-	-	-	50	-	-	-	-	100	600
Criteria	NMOCD - NMAC 51-100 ft 19.15.29 (2018)		10	-	-	-	50	-	-	-	1000	2500	10000
	NMOCD - NMAC >1	00 ft 19.15.29 (2018)	10	-	-	-	50	-	-	-	1000	2500	20000
Boreholes													
BH23-03	0	June 2, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1	June 5, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH23-04	0	June 2, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1	June 5, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH23-05	0	June 2, 2023	0.028	0.17	0.061	0.46	0.719	6.8	ND	ND	6.8	6.8	ND
	1	June 5, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NMAC - New Mexico Administrative Code (Title 19, Chapter 15, Part 29; 2018)

ND - Not Detected at the Reporting Limit

- Denotes no standard/not analyzed

.

APPENDIX A - NMOCD C-141 Report and Yates Reports

Page 6

Oil Conservation Division

Incident ID	nKMW0800954755
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

 $\overline{\mathbf{X}}$ Description of remediation activities

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

Printed Name: Chase Settle	Title: Rep Safety & Environmental Sr
Signature: Chase Settle	Date: 07/19/2023
email: <u>Chase_Settle@eogresources.com</u>	Telephone: <u>575-703-6537</u>
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by: Ashley Maxwell	7/25/2023
Closure Approved by: Ashley Maxwell Printed Name: Ashley Maxwell	Title: Environmental Specialist

Oil Conservation Division

Incident ID	nKMW0800954324
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

X Description of remediation activities

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

 Printed Name: Chase Settle
 Title: Rep Safety & Environmental Sr

 Signature:
 Chase Settle

 Bate:
 07/19/2023

 email:
 Chase Settle@eogresources.com

 Telephone:
 575-703-6537

 OCD Only
 Date:

 Received by:
 Date:

 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:
 Ashley Maywell

 Printed Name:
 Ashley Maxwell
 Date:

 07/25/2023
 Title:
 Environmental Specialist

Page 6

Page 6

Oil Conservation Division

Incident ID	nMLB0608954436
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

X Description of remediation activities

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

 Printed Name: Chase Settle
 Title: Rep Safety & Environmental Sr

 Signature:
 Chase Settle

 Bate:
 07/19/2023

 email:
 Chase Settle@eogresources.com

 Telephone:
 575-703-6537

 OCD Only
 Date:

 Received by:
 Date:

 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:
 Ashley Maxwell

 Printed Name:
 Ashley Maxwell
 Date:

 Title:
 Environmental Specialist



Page 18 of 132

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor

Joanna Prukop Cabinet Secretary Mark E. Fesmire, P.E. Director Oil Conservation Division

Yates Petroleum Corporation 105 S. 4th Street Artesia, NM 88210 ATTN: Environmental Department (Sherry Bonham)

August 1, 2006

Reference: Sawbuck Water Transfer Station G-23-20s-24e

Operator,

The New Mexico Oil Conservation Division District 2 Office (OCD) is in receipt of a work plan proposal (plan) for remediation of a release of produced fluids that occurred at the above referenced facility. The plan proposes removal of a below grade tank located at this site and the installation of an above ground vessel to be utilized for overflow containment. The plan also proposes removal of soils with contaminants present above the OCD Recommended Remedial Action Levels (RRAL) for this site.

The plan is accepted with the following stipulations:

- Notify the OCD 24 hours prior to commencement of activities.
- Notify the OCD 24 hours prior to removal of any below grade tank or vessel. Confirmation samples are to be
 obtained from excavation prior to backfilling.
- Notify the OCD 24 hours prior to obtaining samples where analyses are to be submitted to the OCD.
- OCD is to be provided a copy of analytical results of all witnessed samples within 3 working days of operator's
 receipt of results.
- Laboratory analysis for chlorides will be required prior to closure of site.
- Submit a Final Report Form C-141 upon satisfactory completion of activities.
- Remediation requirements may be subject to change as site conditions warrant.
- Remediation to be completed by August 21, 2006.

Please be advised that NMOCD acceptance of this plan does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of this plan does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If I can be of assistance, please contact me.

Sincerely Bennen

Mike Bratcher NMOCD District 2 1301 W. Grand Ave. Artesia, NM 88210 (505) 748-1283 Ext. 108 (505) 626-0857 Mike.Bratcher@state.nm.us

Received by OCD: 7/19/2023 11:04:19 AM

MARTIN YATES, III

FRANK W. YATES 1936-1986



105 SOUTH FOURTH STREET

S.P. YATES

JOHN A. YATES CHAIRMAN OF THE BOARD

PEYTON YATES

FRANK YATES, JR. EXECUTIVE VICE PRESIDENT

JOHN A. YATES, JR. SENIOR VICE PRESIDENT

ARTESIA, NEW MEXICO 88210-211 CRECEIVED TELEPHONE (505) 748-1471 JUL 2 1 2006

ODU-MATERIA

July 21, 2006

Mr. Mike Bratcher NMOCD District II 1301 West Grand Artesia, NM 88210

Re: Sawbuck Water Transfer Section 23, T20S-R24E Eddy County, New Mexico

Dear Mr. Bratcher,

Thank you for meeting with me at the Sawbuck Water Transfer on July 10, 2006 to obtain samples for evaluating VOC levels. Based on those readings, Yates Petroleum Corporation would like to submit for your consideration the enclosed work plan for the above captioned site. Scope of work described in the plan will be initiated as soon as the work plan is approved and a contractor can be scheduled.

Should you have any questions, please don't hesitate to contact me. Thank you.

Respectfully,

Sherty

Sherry Bonham Environmental Regulatory Agent



Released to Imaging: 7/25/2023 10:16:07 AM

RECEIVED

JUL 2 1 2006 OOD-MATERIA



WORK PLAN SAWBUCK WATER TRANSFER 23 T20S R24E EDDY COUNTY, NEW MEXICO

July 20, 2006

Page 20 of 132



Released to Imaging: 7/25/2023 10:16:07 AM

Sawbuck Water Transfer Yates Petroleum Corporation July 20, 2006

Released to Imaging: 7/25/2023 10:16:07 AM

1.0	INTRODUCTION	.3
2.0	BACKGROUND	.3
2.1	HISTORY OF RELEASE	.3
2.2	INITIAL RESPONSE ACTION TAKEN	3
3.0	SITE OBSERVATIONS	3
4.0	RECOMMENDED REMEDIAL ACTION LEVELS	.4
5.0	REMEDIAL ACTION PLAN	4

Attachments

- 1. Attachment 1, C-141, March 6, 2006
- 2. Attachment 2, Figure 1 Site Map
- 3. Attachment 3, Site ID: SAWBK002 VOC readings North Overflow Berm Area
- **4.** Attachment 4, Site ID: SAWBK003 VOC readings South Overflow Berm Area

Page 21 of 132

Sawbuck Water Transfer Yates Petroleum Corporation July 20, 2006

1.0 INTRODUCTION

This work plan for the Sawbuck Water Transfer has been developed to comply with Section VI, Section A Soil Remediation of the New Mexico Oil and Gas Conservation Division (OCD) *Guidelines for Remediation of Leaks*, *Spills and Releases* (Guidelines). This plan is based on initial reporting, visual observation, and regulations and Guidelines of the OCD.

2.0 BACKGROUND

2.1 History of Release

Yates Petroleum Corporation (Yates) is the operator of the Sawbuck Water Transfer Station. According to the C-141 filed on March 6, 2006 (Attachment 1), a release of 290 barrels produced water occurred due to a power failure causing tanks to overflow. The released water was contained within the berm.

2.2 Initial Response Action Taken

In response to the release, Yates began immediate cleanup by removing as much of the liquid as could be recovered. Approximately 260 barrels of produced water was recovered.

3.0 SITE OBSERVATIONS

On July 10, 2006 Mike Bratcher of NMOCD and Sherry Bonham of Yates Petroleum Corporation met at the Sawbuck Water Transfer. Two composite samples taken at locations specified by Mr. Bratcher were field tested using the heated headspace method to determine VOC concentrations.

A five spot composite was taken in the North Overflow Berm Area (see Attachment 2, Figure 1 Site Map). Maximum VOC concentrations were 61.5 ppm (see Attachment 3).

A three spot composite was taken in the South Overflow Berm Area (see Attachment 2, Figure 1 Site Map). Maximum VOC concentrations were 226.4 ppm (see Attachment 4).

It was noted there is an overflow pipe that could discharge into the North Overflow Berm Area. There is also an underground storage tank in the South Overflow Berm Area.



4.0 RECOMMENDED REMEDIAL ACTION LEVELS

The ranking criteria for this site is as follows (per Section IV of the Guidelines)

Depth to ground water >100' (per Chevron Texaco Water Trend Map)	0
Not in a wellhead protection area	0
Distance to surface body water <1000'	<u>0</u>
TOTAL RANKING SCORE =	0

For sites with a Total Ranking Score of **0**, the Recommended Remedial Action Levels (RRALs) are:

Benzene	10 ppm
BTEX	50 ppm
TPH	5000 ppm

5.0 REMEDIAL ACTION PLAN

Yates proposes to install an above ground containment vessel for the overflow pipe to discharge into as discussed with Mr. Bratcher. Yates also proposes removal of the existing underground storage tank which is located in the South Overflow Berm Area and re-route the line to discharge into the proposed new containment vessel as discussed with Mr. Bratcher.

Because the South Overflow Berm Area failed the VOC criteria, Yates proposes to excavate the South Overflow Berm Area until a representative sample tested in the field using the heated headspace method show readings not greater than 100 ppm. All excavated materials will be placed on plastic sheeting in a bermed area to prevent spreading contamination and/or will be disposed at a NMOCD approved offsite facility. Once these soils have been removed, the NMOCD will be contacted and given the opportunity to witness the final confirmation sampling for site closure. Confirmation samples will be collected and sent to a third party laboratory for analysis. The samples will be analyzed for TPH (GRO and DRO) by EPA Method 8015B.

If the laboratory analytical results show the soil concentrations are within the RRALs shown in section 4.0 above, excavated area will be backfilled and Yates will request closure approval from OCD per section IX of the Guidelines. Released to Imaging: 7/25/2023 10:16:07 AM

Respectfully Submitted,

Sherry Bonham Environmental Regulatory Agent

Received by OCD: 7/19/2023 11:04:19 AM

Page 23 of 132

ATTACHMENT 1

•

Page 24 of 132

Released to Imaging: 7/25/2023 10:16:07 AM

(? <u>arrict]</u> 1625 N. French Dr., Hot <u>District II</u> 1301 W. Grand Avenue, <u>District III</u> 1000 Rig Brazos Road,		. \	St	ate of N	lew Mexi					Form C-141	
1625 N. French Dr., Hot District II	1625 N. French Dr., Hobbs, NM 86240 Energy Minerals at District II 1301 W. Grand Avenue, Artesia, NM 88210 District III Oil Conservation 1000 Rio Brazos Road, Aztec, NM 87410 1220 South 3							Revised October 10, 2003			
1301 W. Orand Avenue, District III									Submit-2 Copies to appropriate District Office in accordance		
District IV						St. Francis Dr. with Rule					
_					NM 875		etion				
MLB 0608954	4456	Relea	ise Notific	cation		rrective A	re flour	VĬn	itial Report	Final Report	
MLB060895 Name of Company	3556	im Com			Contact Di	ATOR an Dolan					
Address 105 S.	4 ^a St., Artes <u>ia N</u>	M 88210		٦	Felephone ?	No. 748-4181	afan stat	lan			
Facility Namo Sa	wbuck Water Tr	ansfer			Facility Typ	e water train	SIDE SIAL				
Surface Owner	Vilbanks Ranch		Mineral (Owner	Fed			Lonso N	(0	<u></u>	
						YINAQU					
Unit Letter Sect	on Township	Rango	Feet from the		OF RE	Feet from the	East/V	Vest Line	County	······································	
\sim	205	24E							Eddy		
23			1	Latitude	Longitu	de <u>-</u>					
			NA	TURE	OF REL	EASE					
Type of Release	roduced water				Volume o	f Release 290bb	l water	Volume I	Lecovered 260	Obbl water	
Source of Release tanks to overflow.	Power failure, ma	in control v	alve leaked cau	ising	03-05-06,	Hour of Occurrer 0900hrs		03=05-06			
Was Immediate No	tice Given?		Mat Damin		If YES, T	o Whom? tchor, District 2)	MOCD				
		Yes No	Not Require	±0	1	Hour 03-06-06.					
By Whom? Da Was a Watercourse	Kenenco7				IT YES, V	olume Impacting	r the Wal	ercourse.			
] Ycs X	No					<u></u>			
Describe Cause of Power failure, tan Describe Area Aff Area was inside g	a overflowed. Pour coted and Cleanup and berm, will be t	ver restored Action Tak field tested f	, vacuum truck: :en.* for chloride, and	d remedia	il action take	n based on that t					
testing. Ranking for this a	ren is as follows; f	Depth to gro	und water-0, W	/ellhead p	protection area-0, Distance to surface water-0. Water 125'(trend map) the best of my knowledge and understand that pursuant to NMOCD rules and patientical and preform corrective actions for releases which may endanger						
regulations all op public health or the should their operation or the environment	e cavironment. The tions have failed to the fin addition (NA)	to report at he acceptant adjquately 1000 accer	ce of a C-141 n	eport by t	he NMOCD	marked as "Fina	Report"	does not m	elleve the operation of the second se	tor of liability or, human health	
federal, state, or l	ocal laws and/or re	gulations.	/	<u></u>					N DIVISIO		
	ALK	1	2-					VI GUN			
Signature:	March C				Approved	by District Super		ov Mer			
Printed Name: D	an Dolin						,^]		May Car Com	
Title: Bavironmo	intal Regulatory A	goni			Approval	Date: 3/20/00	¢	Expiratio	on Date:	i	
E-mail Address:	ddolan@ypcam.c	m			Condition	s of Approval:			Attached	Þ.	
Date: 03-06-06 * Attach Addition		e: 748-418 essary	1	~					_		
									(E (antisted of)	
		بر									



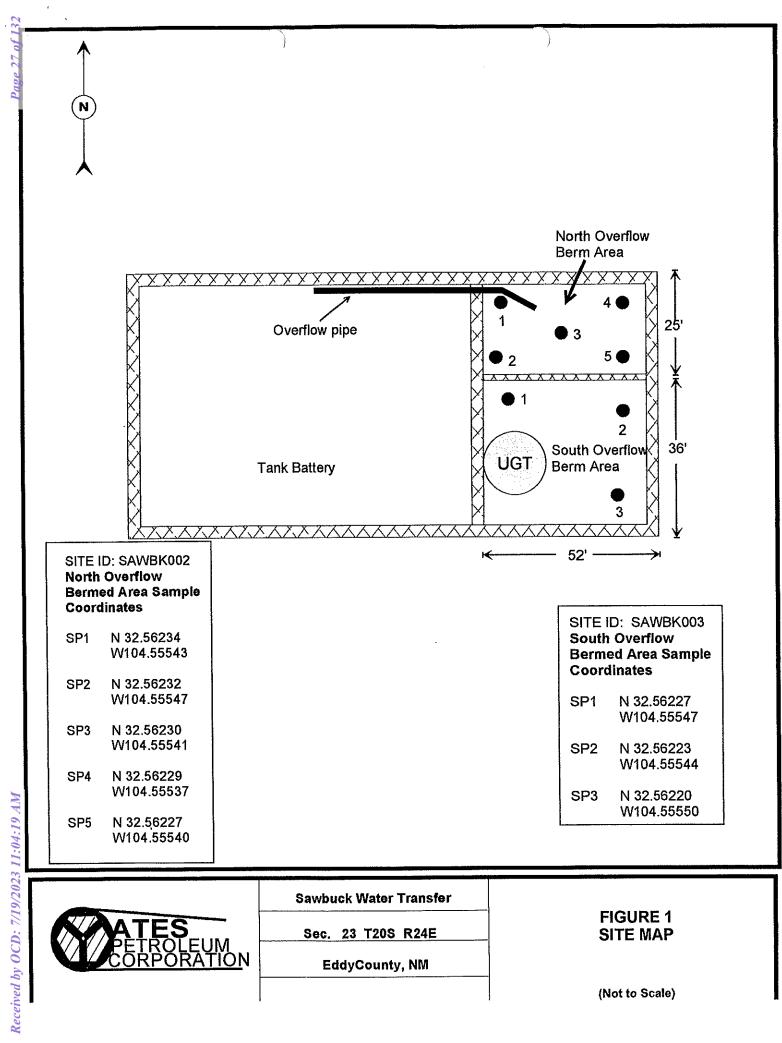
.•

ATTACHMENT 2

1

•

Released to Imaging: 7/25/2023 10:16:07 AM



Released to Imaging: 7/25/2023 10:16:07 AM

5 1

ATTACHMENT 3

;

, ~~~~

Released to Imaging: 7/25/2023 10:16:07 AM

Page 29 of 132	Instrument: MiniRAE User ID: SHERRBON Data Points: 1 Last Calibration Tim	Site ID: SAWBK002 Gas Name: Isobutylene		Numbe 012908 Period: 60 sec	
	Measurement Type: High Alarm Levels: Low Alarm Levels:	Min(ppm) 101.0 101.0	Avg(ppm) 101.0 101.0	Max(ppm) 101.0 101.0	~
	Line# Date Ti	.me Min(ppm)	Avg(ppm)	Max(ppm)	
	1 07/10/2006 09	32	46.4	61.5	And Annual Labor Labor Adda

۶ ۱

.

ATTACHMENT 4

1

r , e

Page 30 of 132

Released to Imaging: 7/25/2023 10:16:07 AM

	ν. . τ			
	Instrument: MiniRAE 200 User ID: SHERRBON	00 (PGM .00) Site ID: SAWBK003	Serial	Numbe_ / 012908
)	Data Points: 1 Last Calibration Time:	Gas Name: Isobutylene 07/06/2006 14:06	Sample	Period: 60 sec
	Measurement Type: High Alarm Levels: Low Alarm Levels:	Min(ppm) 101.0 101.0	Avg(ppm) 101.0 101.0	Max(ppm) 101.0 101.0
	Line# Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
	1 07/10/2006 10:04	and that has been very	79.9	226.4H

•

Released to Imaging: 7/25/2023 10:16:07 AM

Page 31 of 132

Sherry Bonham

 From:
 Bratcher, Mike, EMNRD [mike.bratcher@state.nm.us]

 Sent:
 Wednesday, September 20, 2006 4:27 PM

 To:
 Sherry Bonham

Subject: RE: Sawbuck Water Transfer

Sherry,

This is to confirm your notification to the OCD of the newest release at the Sawbuck Water Transfer Station and to confirm approval for an extension of time for remediation activities at this site. It appears the lined berm at this site has paid off.

Thanks,

Mike Bratcher NMOCD District 2

From: Sherry Bonham [mailto:sherryb@YPCNM.COM] Sent: Wednesday, September 20, 2006 9:49 AM To: Bratcher, Mike, EMNRD Subject: Sawbuck Water Transfer

Good morning, Mike. Thank you for visiting with me this morning on the phone regarding the Sawbuck Water Transfer.

This e-mail is to follow up on my calling in (approx. 9:05 am) a spill on the Sawbuck Water Transfer Section 12 T20S R24E Unit G today. The approximate 50 bbl produced water spill occurred this AM 9/19/06. All fluids were contained within the lined bermed area. Vacuum trucks are in process of recovering fluids.

Thanks for the verbal approval to my request for an extension for submitting final closure on the Sawbuck Water Transfer. I ask that extension be granted until October 21, 2006. As you know, original remediation activities had been completed however, a August 31, 2006 release and now a September 19, 2006 release have interfered with submitting the final. All fluids were contained within the newly lined berms. As soon as clean-up actions are complete, I plan to submit closure request.

Thanks, Mike, for your assistance. I would appreciate a confirmation response and look forward to hearing from you.

Should you have any questions or concerns, please don't hesitate to contact me.

Sherry

Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient (s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all copies of this message. -- This email has been scanned by the Sybari - Antigen Email System.

Released to Imaging: 7/25/2023 10:16:07 AM

Sherry Bonham

From: Bratcher, Mike, EMNRD [mike.bratcher@state.nr	n.us	Ĺ
-----------------------------------------------------	------	---

Sent: Monday, August 21, 2006 8:11 AM

To: Sherry Bonham

Cc: Jerry Fanning

Subject: RE: Sawbuck Water Transfer

Sherry,

The request for an extension on this project to September 21, 2006 is approved.

Mike Bratcher NMOCD District 2



From: Sherry Bonham [mailto:sherryb@YPCNM.COM]
Sent: Friday, August 11, 2006 12:04 PM
To: Bratcher, Mike, EMNRD
Cc: Jerry Fanning
Subject: Sawbuck Water Transfer

Mike,

Soils have been excavated as per the approved workplan of July 20, 2006. I would like to take confirmation samples on Monday August 14, 2006 at 11:00 AM. I would like for this e-mail to provide the required 24 hour notification prior to obtaining the confirmation samples.

As one of the stipulations per your August 1, 2006 letter, you stated that remediation is to be completed by August 21, 2006. Due to there being a 10 day turn around period on samples and our waiting for those results of the confirmation samples, I would also like to request an extension until September 21, 2006 to complete remediation processes. Your consideration to this request is appreciated!

If you have any questions, please don't hesitate to contact me and should I not hear from you, I will assume that you are in agreement. Thanks for your help, Mike!

Sherry

Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient (s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all copies of this message. -- This email has been scanned by the Sybari - Antigen Email System.

Sherry Bonham

From: Bratcher, Mike, EMNRD [mike.bratcher@state.nm.us]

Sent: Tuesday, August 01, 2006 9:50 AM

To: Sherry Bonham

Cc: Jerry Fanning

Subject: RE: Sawbuck Water Transfer

Sherry,

Attached is the approval for the July 20, 2006 work plan proposal. If you have personnel available to commence operations on August 2, 2006 please proceed. The approval stipulation to provide OCD with 24 hours notice prior to commencement of activities will be considered to have been met. A signed hard copy of the approval will be sent via mail.

Thanks,

Mike Bratcher NMOCD District 2

From: Sherry Bonham [mailto:sherryb@YPCNM.COM] Sent: Monday, July 31, 2006 4:47 PM To: Bratcher, Mike, EMNRD Cc: Jerry Fanning Subject: Sawbuck Water Transfer

Mike,

We have a contractor available to begin underground tank removal and remediation on the Sawbuck Water Transfer. I haven't received a work plan approval from you and am asking if you could fast track this approval. We would like to begin work as early as Wednesday, August 2, 2006.

Thanks, Mike, for your help and attention to this request! Should you have any questions/concerns, please don't hesitate to contact me.

Sherry

Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient (s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all copies of this message. -- This email has been scanned by the Sybari - Antigen Email System.



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary Mark E. Fesmire, P.E. Director Oil Conservation Division

August 1, 2006

Yates Petroleum Corporation 105 S. 4th Street Artesia, NM 88210 ATTN: Environmental Department (Sherry Bonham)

Reference: Sawbuck Water Transfer Station G-23-20s-24e

Operator,

The New Mexico Oil Conservation Division District 2 Office (OCD) is in receipt of a work plan proposal (plan) for remediation of a release of produced fluids that occurred at the above referenced facility. The plan proposes removal of a below grade tank located at this site and the installation of an above ground vessel to be utilized for overflow containment. The plan also proposes removal of soils with contaminants present above the OCD Recommended Remedial Action Levels (RRAL) for this site.

The plan is accepted with the following stipulations:

- Notify the OCD 24 hours prior to commencement of activities.
- Notify the OCD 24 hours prior to removal of any below grade tank or vessel. Confirmation samples are to be
 obtained from excavation prior to backfilling.
- Notify the OCD 24 hours prior to obtaining samples where analyses are to be submitted to the OCD.
- OCD is to be provided a copy of analytical results of all witnessed samples within 3 working days of operator's receipt of results.
- Laboratory analysis for chlorides will be required prior to closure of site.
- Submit a Final Report Form C-141 upon satisfactory completion of activities.
- Remediation requirements may be subject to change as site conditions warrant.
- Remediation to be completed by August 21, 2006.

Please be advised that NMOCD acceptance of this plan does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of this plan does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If I can be of assistance, please contact me.

Sincerely,

Received by OCD: 7/19/2023 11:04:19 AM

Mike Bratcher NMOCD District 2 1301 W. Grand Ave. Artesia, NM 88210 (505) 748-1283 Ext. 108 (505) 626-0857 Mike.Bratcher@state.nm.us

Oil Conservation Division * 1301 W. Grand Ave. * Artesia, New Mexico 88210 Phone: (505) 748-1283 * Fax (505) 748-9720 * http://www.emnrd.state.nm.us MARTIN YATES, III

Page 36 of

FRANK W. YATES



105 BOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210-2118 TELEPHONE (505) 748-1471 S.P. YATES

JOHN A. YATES CHAIRMAN OF THE BOARD

> PEYTON YATES PRESIDENT

FRANK YATES, JR. EXECUTIVE VICE PRESIDENT

JOHN A. YATES, JR. BENIOR VICE PRESIDENT

October 9, 2006

Mr. Mike Bratcher NMOCD – District 2 1301 West Grand Street Artesia, NM 88210

RE: Sawbuck Water Transfer 23 T20S R24E Unit G

Dear Mike,

Yates Petroleum Corporation respectfully requests closure to three separate incidents on the above mentioned site. Please find the Final Report C 141s for release dates of March 5, 2006, August 31, 2006, and September 20, 2006 in attachment A.

For the March 5, 2006 release date, the work plan for remediation including removal of a below grade tank at this site was submitted on July 21, 2006 and approved by NMOCD on August 1, 2006. Underground tank removal and all remediation activities have since been completed as per plan. The bermed area was lined with 12 mil reinforced plastic underlayment.

According to the ChevronTexaco Eddy County Depth to Ground Water Trend Map, depth to water in this area is between 250 and 275 feet. No water wells or surface waters are located within 1,000 feet of this site. Using the NMOCD ranking criteria, site investigation and data provided, this site has a Ranking Score of **0**. The soil action levels for a site with this score are as follows:

- Benzene
- BTEX
- TPH

10 ppm 50 ppm 5000 ppm Confirmation samples (please note the sample point diagram in attachment B) taken August 14, 2006 and submitted to a third party laboratory do not exceed these criteria. The laboratory analysis is provided for your review (Attachment C).

Two additional releases occurring on August 31, 2006 and September 20, 2006 were sustained. However, both releases were contained within the newly lined bermed area. Standing fluids on both releases were vacuumed. Impacted materials of both releases were removed from the plastic liner, hauled to an OCD approved waste facility, and replaced with clean materials.

Given the analysis information and the two additional releases were contained within a plastic lined bermed area, there appears to be minimal risk to human health or the environment. In light of this evaluation, Yates Petroleum Corporation requests NMOCD grant final closure to the March 5, 2006, August 21, 2006, and September 20, 2006 releases.

Sincerely,

Sherry Bonham Environmental Regulatory Agent

enclosures

Page 37 of 132

.

Page 38 of 132 1

e . ł

. .

)

Released to Imaging: 7/25/2023 10:16:07 AM

Attachment A

SAWBUCK WATER TRANSFER SWD Surface Owner FEDERAL Mineral Owner FEDERAL Lease No. Image: Section Township Range Feet from the North/South Line
LOCATION OF RELEASE
G 23 20S 24E Feet nom the Feet nom the EDDY
LatitudeLongitude
NATURE OF RELEASE
Type of Release PRODUCED WATERVolume of Release 290 B/PWVolume Recovered 260 B/PW
Source of Release Date and Hour of Occurrence Date and Hour of Discovery TANK OVERFLOW 3/05/06 0900 3/5/06 0900
Was Immediate Notice Given? If YES, To Whom? Yes No Not Required MIKE BRATCHER In the second se
By Whom? Date and Hour DAN DOLAN 3/6/06 0900
Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. Yes No
If a Watercourse was Impacted, Describe Fully.* N/A
Describe Cause of Problem and Remedial Action Taken.* POWER FAILURE. POWER RESTORED.
Describe Area Affected and Cleanup Action Taken.* ALL FLUIDS WERE CONTAINED WITHIN BERMS. VACUUMED STANDING FLUIDS. SITE RANKING: 0. REMEDIATION ACTIONS COMPLETE PER APPROVED WORK PLAN. FINAL REPORT. REQUESTING CLOSURE.
REMEDIATION ACTIONS COMPLETE FEX AFFROVED WORK TEAM. FINAL REPORT. REQUESTING CLOSORE. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human here or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Signature: OIL CONSERVATION DIVISION Printed Name: Sherry Bonham Approved by District Supervisor: Title: Environmental Regulatory Agent Approval Date;
OIL CONSERVATION DIVISION
Signature: Share Annound by District Supervisory
Printed Name: Sherry Bonham Approved by District Supervisor:
E-mail Address: sherryb@ypcnm.com Conditions of Approval: Attached
Attach Additional Sheets If Necessary

District I 1625 N. French Dr., Hobbs, NM 88240 State of New Mexico	
	Form C-141
District II Energy Minerals and Natural Resources Revise	d October 10, 2003
	ies to appropriate ice in accordance Rule 116 on back
District IV1220 South St. Francis Dr.with1220 S. St. Francis Dr., Santa Fe, NM 87505Santa Fe, NM 87505	side of form
Release Notification and Corrective Action	
OPERATOR Initial Report	Final Report
Name of Company OGRID Number Contact YATES PETROLEUM CORPORATION 25575 SHERRY BONHAM	
Address Telephone No.	······································
105 S. 4 TH STREET 505-748-1471 Facility Name API Number Facility Type	
SAWBUCK WATER TRANSFER SWD	
Surface OwnerMineral OwnerLease No.	
FEDERAL FEDERAL	
LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County	
Unit Letter GSection 23Township 20SRange 24EFeet from the North/South LineFeet from the Feet from the EDDYEast/West Line EDDY	
LatitudeLongitude	
NATURE OF RELEASE	
Type of ReleaseVolume of ReleaseVolume RecoveredPRODUCED WATER395 B/PW380 B/PWCRUDE OIL5 B/O4 B/O	
Source of Release Date and Hour of Occurrence Date and Hour of Disco	very
TANK OVERFLOW 8/31/06 1:00 PM 8/31/06 1:00 PM Was Immediate Notice Given? If YES, To Whom? Yes No Not Required MIKE BRATCHER	
By Whom? Date and Hour SHERRY BONHAM 8/31/06 3:15 PM	
Was a Watercourse Reached? If YES, Volume Impacting the Watercourse.	
Yes No N/A If a Watercourse was Impacted, Describe Fully.*	
N/A Describe Cause of Problem and Remedial Action Taken.*	*****
POWER FAILURE DUE TO SEVERE THUNDERSTORM. RESULTED IN AUTO VALVE FAILURE. CLOSED MANUAL VALVE TRUCK AND CREW CALLED IN.	/ES. VACUUM
Describe Area Affected and Cleanup Action Taken.* ALL FLUIDS WERE CONTAINED WITHIN PLASTIC LINED BERMS. STANDING FLUIDS VACUUMED. IMPACTED MATER REMOVED FROM PLASTIC LINER AND REPLACED. UPON COMPLETION, FINAL C-141 TO BE SUBMITTED. SITE RANKING: 0. FINAL REPORT. REQUESTING CLOSURE.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMO regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which m public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water	hay endanger tor of liability er, human health
or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with federal, state, or local laws and/or regulations.	th any other
OIL CONSERVATION DIVISIO	<u>N</u>
Signator Sham Bh	
Printed Name: Sherry Bonham Approved by District Supervisor:	
Title: Environmental Regulatory Agent Approval Date: Expiration Date:	
E-mail Address: sherryb@ypcnm.com Conditions of Approval: Attached	
Date: October 9, 2006 Phone: 505-748-1471	
* Attach Additional Sheets If Necessary	•

Ę ć 1 Reco

5 N. French Dr. Hobbe NM 88740	f New Mexi			Form C-141
triot II Energy (Vilneral	s and Natural	Resources		Revised October 10, 2003
(0, 0) $(0, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $(1, 1)$ $($	ervation Divi			Submit 2 Copies to appropriate District Office in accordance
trict IV 1220 Sou	th St. Franci			with Rule 116 on back side of form
. Dana .	Fe, NM 8750		ation	
Release Notificatio		rrecuve A		Report X Final Report
ame of Company OGRID Number	ATOR Contact			Report 🛛 Final Repor
ATES PETROLEUM CORPORATION 25575	SHERRY BO			
ddress 05 S. 4 TH STREET	Telephone N 505-748-147			
acility Name API Number	Facility Type)		
AWBUCK WATER TRANSFER	SWD			
urface Owner Mineral Owner EDERAL FEDERAL	r		Lease N	l0.
	ON OF REL	EASE		
	rth/South Line	Feet from the	East/West Line	County EDDY
Latitude	Longitude_			
	E OF RELI	CASE	_	
ype of Release RODUCED WATER	Volume of 50 B/PW	***************************************	Volume I 47 B/PW	Recovered
ource of Release		our of Occurrence		Hour of Discovery
UN BARREL RISER Vas Immediate Notice Given?	9/20/06 8: If YES, To		9/20/06	8:45 AM
🛛 Yes 🗌 No 🗌 Not Requir				
By Whom? HERRY BONHAM	Date and H 9/20/06 9:			
Vas a Watercourse Reached?	If YES, Vo		the Watercourse.	
☐ Yes ⊠ No f a Watercourse was Impacted, Describe Fully.* I/A	N/A			
Describe Cause of Problem and Remedial Action Taken.* CHECK VALVE FAILURE BLEW 12" VIC CLAMP OFF OF GUN CALLED IN.	BARREL RISE	R. SHUT MAIN	VALVES. VACU	JUM TRUCK AND CREW
Describe Area Affected and Cleanup Action Taken.*	<u></u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
ALL FLUIDS WERE CONTAINED WITHIN PLASTIC LINED BEI REMOVED FROM PLASTIC LINER AND REPLACED. UPON CO SITE RANKING: 0.	RMS. STANDII OMPLETION, F	NG FLUIDS VAO INAL C-141 TO	CUUMED. IMPA BE SUBMITTED.	CTED MATERIALS TO BE
INAL REPORT. REQUESTING CLOSURE. hereby certify that the information given above is true and complete	to the best of my	knowledge and	understand that put	rsuant to NMOCD rules and
egulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and reme	se notifications a v the NMOCD n	nd perform corre arked as "Final l	ective actions for re Report" does not re	leases which may endanger lieve the operator of liability
or the environment. In addition, NMOCD acceptance of a C-141 repo	ort does not relie	ve the operator of	f responsibility for	compliance with any other
federal, state, or local laws and/or regulations.		OIL CON	SERVATION	I DIVISION
Signature Then The				
Printed Name: Sherry Bonham	Approved by	District Superv	isor:	
Title: Environmental Regulatory Agent	Approval Da	ite:	Expiration	n Date:
E-mail Address: sherryb@ypcnm.com	Conditions of	of Approval:		Attached
Date: October 9, 2006 Phone: 505-748-1471				
Attach Additional Sheets If Necessary				

Received by OCD: 7/19/2023 11:04:19 AM

. ÷

;

Page 42 of 132 ,

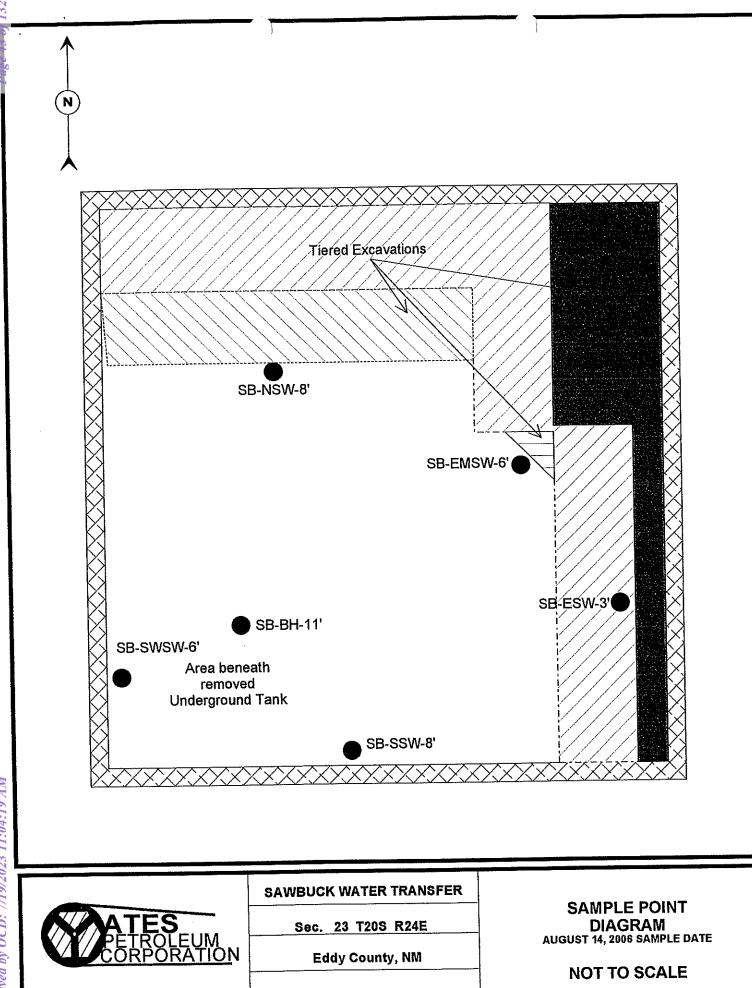
, :

()

Attachment B

•

, 11 st st



Received by OCD: 7/19/2023 11:04:19 AM

Page 44 of 132

,

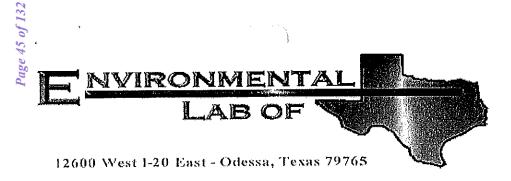
. • ÷ -

.-

. . 3

,

Attachment C



Analytical Report

Prepared for:

Sherry Bonham Yates Petroleum Corp. 105 S. Fourth St. Artesia, NM 88210

Project: Sawbuck Water Transfer Project Number: G-23-20S-24E Location: Eddy County, NM

Lab Order Number: 6H15010

Report Date: 08/21/06

Yates Petroleum Corp. 105 S. Fourth St. Artesia NM, 88210

Project: Sawbuck Water Transfer Project Number: G-23-20S-24E Project Manager: Sherry Bonham

Fax: (505) 748-4662

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-BH-11'	6H15010-01	Soil	08/14/06 10:40	08-15-2006 10:40
SB-ESW-3'	6H15010-02	Soil	08/14/06 10:55	08-15-2006 10:40
SB-SWSW-6'	6H15010-03	Soil	08/14/06 10:25	08-15-2006 10:40
SB-SSW-8'	6H15010-04	Soil	08/14/06 10:35	08-15-2006 10:40
SB-NSW-8'	6H15010-05	Soil	08/14/06 10:45	08-15-2006 10:40
SB-EMSW-6'	6H15010-06	Soil	08/14/06 10:50	08-15-2006 10:40

Yates Petroleum Corp. 105 S. Fourth St. Artesia NM, 88210		Project Nu	roject: Saw imber: G-2 inager: She	3-20S-24E				Fax: (505)	748-4662
		Or	ganics b	y GC					
		Environm	nental L	ab of Te	exas				
	Duult	Reporting Limit	Units		.	D. 1		24.0.1	Mara
Analyte	Result	LIBIR	Onits	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-BH-11' (6H15010-01) Soil		<u>. </u>							
Carbon Ranges C6-C10	J [2.20]	10.0	mg/kg dry	1	EH61503	08/15/06	08/16/06	EPA 8015B	
Carbon Ranges >C10-C28	193	10.0	ıt	"	8	H		в	
Total Carbon Range C6-C28	193	10.0	U	"	¥i	\$1	it	#	
Surrogate: 1-Chlorooctane		112 %	70-1		н	11 11	ee JJ	μ	
Surrogate: 1-Chlorooctadecane		106 %	70-1	30		"	"		
SB-ESW-3' (6H15010-02) Soil									
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EH61503	08/15/06	08/16/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0	D	u	10	n	"		
Total Carbon Range C6-C28	ND	10.0	u	*1	u	Ħ		P	
Surrogate: 1-Chlorooctane		102 %	70-1	30	"	σ	μ	'n	
Surrogate: 1-Chlorooctadecane		93.6%	70-1	30	"	н	**	#	
SB-SWSW-6' (6H15010-03) Soil									
Carbon Ranges C6-C10	ND	10.0	mg/kg dıy	1	EH61503	08/15/06	08/16/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0	·	I\$	er.	n	n	11	
Total Carbon Range C6-C28	ND	10.0	н	41	14		"	n	
Surrogate: 1-Chlorooctane		104 %	70-	130	11	Ħ	Ð	ц	
Surrogate: 1-Chlorooctadecane		97.4 %	70-	130	"	v	"	*	
-									
SB-SSW-8' (6H15010-04) Soil									
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	I	EH61503	08/15/06	08/16/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0			•			16	
Total Carbon Range C6-C28	ND	10.0		A	Ħ	FI	11		
Surrogate: 1-Chlorooctane		106 %		130	"	a	"	"	
Surrogate: 1-Chlorooctadecane		99.0 %	70-	130	H	H	n	*	
SB-NSW-8' (6H15010-05) Soil									
Carbon Ranges C6-C10	ND	10.0	mg/kg dıy	1	EH61503	08/15/06	08/16/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0	n	14		n	17	ŭ	
Total Carbon Range C6-C28	ND	10.0	a1	"	11	11	#1	41	
Surrogate: I-Chlorooctane		108 %	70-	130	h	11	W	н	
Surrogate: 1-Chlorooctadecane		99.0%	70-	-130	r#	"	n	0	

Yates Petroleum Corp.

105 S. Fourth St.

Artesia NM, 88210

Organics by GC

Project Manager: Sherry Bonham

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-EMSW-6' (6H15010-06) Soil									
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	t	EH61503	08/15/06	08/16/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0	11	Ŧ	"	n	H	11	
Total Carbon Range C6-C28	ND	10.0	ŧ	н	51	н	н	12	
Surrogate: 1-Chlorooctane		103 %	70-1	30	17	14	ti	н	
Surrogate: 1-Chlorooctadecane		97.2 %	70-1	30	**	"	"	tz	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 3 of 7

Project: Sawbuck Water Transfer Project Number: G-23-20S-24E Project Manager: Sherry Bonham

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-BH-11' (6H15010-01) Səil									
% Moisture	5.1	0.1	%	۱	EH61601	08/15/06	08/16/06	% calculation	
SB-ESW-3' (6H15010-02) Soil									
% Moisture	17.4	0.1	%	1	EH61601	08/15/06	08/16/06	% calculation	
SB-SWSW-6' (6H15010-03) Soil									
% Moisture	15.9	0.1	%	1	EH61601	08/15/06	08/16/06	% calculation	
SB-SSW-8' (6H15010-04) Soil									
% Moisture	13.3	0.1	%	1	EH61601	08/15/06	08/16/06	% calculation	
SB-NSW-8' (6H15010-05) Soil							. 1. 110 1. 2		
% Moisture	10.0	0.1	%	ĩ	EH61601	08/15/06	08/16/06	% calculation	
SB-EMSW-6' (6H15010-06) Soil									
% Moisture	13.5	0,1	%	1	EH61601	08/15/06	08/16/06	% calculation	

Artesia NM, 88210

Project: Sawbuck Water Transfer Project Number: G-23-20S-24E Project Manager: Sherry Bonham

Organics by GC - Quality Control

Environmental Lab of Texas

·										
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch EH61503 - EPA 5030C (GC)										
Blank (EH61503-BLK1)				Prepared: 0	8/15/06 Ai	nalyzed: 08	/16/06			
Carbon Ranges C6-C10	ND	10.0	mg/kg wet							
Carbon Ranges >C10-C28	ND	10.0	4							
Total Carbon Range C6-C28	ND	10.0	41							
Surrogate: 1-Chlorooctane	51.9		mg/kg	50.0		104	70-130			
Surrogate: 1-Chlorooctadecane	49.2		"	50.0		98.4	70-130			
LCS (EH61503-BS1)				Prepared: 0	8/15/06 A	nalyzed: 08	8/16/06			
Carbon Ranges C6-C10	524	10.0	mg/kg wet	500		105	75-125			
Carbon Ranges >C10-C28	467	10.0	0	500		93.4	75-125			
Total Carbon Range C6-C28	991	10.0	n	1000		99.1	75-125			
Surrogate: 1-Chlorovctane	60,7		mg/kg	50,0		121	70-130			
Surrogate: 1-Chlorooctadecane	47.5		"	50.0		95.0	70-130			
Calibration Check (EH61503-CCVI)				Prepared: 0	8/15/06 A	nalyzed: 0	3/16/06			
Carbon Ranges C6-C10	232		mg/kg	250		92.8	80-120			
Carbon Ranges >C10-C28	283		u	250		113	80-120			
Total Carbon Range C6-C28	515		D	500		103	80-120			
Surrogate: 1-Chlorooctane	64.9		Π	50.0		130	70-130			
Surrogate: 1-Chlorooctadecane	59.7		*	\$0.0		119	70-130			
Matrix Spike (EH61503-MS1)	Source	: 6H1501	0-02	Prepared: 0)8/15/06 A	nalyzed: 0	8/16/06			
Carbon Ranges C6-C10	630	10,0	mg/kg dry	605	ND	104	75-125			
Carbon Ranges >C10-C28	549	10.0	18	605	ND	90.7	75-125			
Total Carbon Range C6-C28	1180	10.0	8	1210	ND	97.5	75-125			
Surrogate: 1-Chlorooctane	63.9		mg/kg	50,0		128	70-130			
Surrogate: 1-Chlorooctadecane	50.3		IJ	50.0		101	70-130			
Matrix Spike Dup (EH61503-MSD1)	Source	:: 6H1501	0-02	Prepared: (08/15/06 A	analyzed: 0	8/16/06			
Carbon Ranges C6-C10	677	10.0	mg/kg diy	605	ND	112	75-125	7.19	20	
Carbon Ranges >C10-C28	590	10.0	*1	605	ND	97.5	75-125	7.20	20	
Total Carbon Rauge C6-C28	1270	10.0	ħ	1210	ND	105	75-125	7,35	20	
Surrogate: 1-Chlorooctane	62.3		mg/kg	50.0		125	70-130			
Surrogate: 1-Chlorooctadecane	53.7		"	50.0		107	70-130			

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyle	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EH61601 - General Preparation (Prep)										
Blank (EH61601-BLK1)				Prepared: (8/15/06 A	nalyzed: 08	/16/06			
% Solids	100		%							
Duplicate (EH61601-DUP1)	Sour	ce: 6H15002-	01	Prepared: ()8/15/06 A	nałyzed: 08	/16/06			
% Solids	90.3		%		89.0			1.45	20	
Duplicate (EH61601-DUP2)	Sour	ce: 6H15007-	04	Prepared: ()8/15/06 A	nalyzed: 08	/16/06			
% Solids	97,3		%		96.9			0.412	20	
Duplicate (EH61601-DUP3)	Sour	ce: 6H15013-	01	Prepared: ()8/15/06 A	nalyzed: 08	/16/06			
% Solids	90.1		%		90,1			0.00	20	

Project: Sawbuck Water Transfer Project Number: G-23-20S-24E Project Manager: Sherry Bonham

Notes and Definitions

Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). J

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dıy	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dap	Duplicate

Report Approved By:

Raland K Julis Date:

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

Received by OCD: 7/19/2023 11:04:19 AM

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

8/21/2006

Page 7 of 7

-
-
~
1 C C
0
9
0
The second
0
-
3
100
\mathbf{O}
0
~
\mathbf{N}
<u> </u>
6
24
\mathbf{S}
\geq
2
2
2
17 :S
ng: 7/
ing: 7/
ing: 7/
ging: 7/
aging: 7/
naging: 7/
maging: 7/
maging: 7/
Imaging: 7/
Imaging: 7/
o Imaging: 7/
Imaging: 7/
I to Imaging: 7/
d to Imaging: 7/
I to Imaging: 7/
sed to Imaging: 7/
ised to Imaging: 7/
ased to Imaging: 7/
eased to Imaging: 7/
ased to Imaging: 7/
eased to Imaging: 7/
celeased to Imaging: 7/
eleased to Imaging: 7/

•

.....

Freiert Kameg. Company Name Second Name) 3			12'500 West I-20 East Odessa, Texas 79765	t East 79765	 	Phone: 432-563-1800 Fax: 432-563-1713	3-1800 3-1713	
Company Name Totals Percention Concreation Project account	Projec	-							Project Na	me: Sawbuck Water Trai	nsfer	
Comparing Contractive Chy Statistical Chy Chy Chy Chy Chy Chy Chy Chy Chy Chy	Comp		oration						Proje			
Chylsteradic: Area, Nil 18210 Dy Rossen Poly Rossen	Comp								Project	.oc: Eddy County		
Tabelhon NC. Tabelhon NC. Startist of Constrained Tarty in the first of Constrained </td <td>City/St</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>۵.</td> <td>0 #: 1032420</td> <td></td> <td></td>	City/St								۵.	0 #: 1032420		
Sampler Stanture Australia	Telept	•	13-1529	_		Fax No:	505-748-4585	œ	eport Format	Standard		ş
При завони Паказания Паказания Паказания Паказания Паказания 00018 ж. (с. 1000) 00018 ж. (с. 1000) 00018 ж. (с. 1000) 00018 ж. (с. 1000) 00018 ж. (с. 1000) 00018 ж. (с. 1000) 00018 ж. (с. 1000) 00018 ж. (с. 1000) 00018 ж. (с. 1000) 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % 00018 % <t< td=""><td>Sampl</td><td>ler Signature:</td><td>X</td><td>7</td><td></td><td>e-mail:</td><td>sherryo@ypcnm.com</td><td></td><td>l</td><td></td><td></td><td>F</td></t<>	Sampl	ler Signature:	X	7		e-mail:	sherryo@ypcnm.com		l			F
Онистранизации С.	(lao use only)) () () () () () () () () () () () () ()	\mathcal{D}									15 110
Constrained by: Second field Second fie	ORDER #:	(L L DO O					Preservation & # c	Η	h			
SB-BH-11* 11* 81*142006 10.40am 1 X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X B X X B X B X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X<	(yino əsu del) # 8A-	FIELD CODE			ხяlqmis2 ა)ი0	baiqma& amiT	1054 10H 10H 100 100	DM=Dayn ¹¹ Maigt St zynggy Olinaf (Sdocyy) Nota Nata	TPH: 410 00154 1005 10	SAR (ESP (CCC) Semivolaties Metals: As Ag Ba Cd Cr Pb Hg Metals: As Ag Ba Cd Cr Pb Hg BTEX 00218/5030 or BTEX 820		
SB-ESW-3* 3 8/14/2006 10:55AM 1 X I S X I X X I X X I X X I X X I X X I X X I X X I X X I X X I X X I X X I X X I X X I X X I X X I X X I X X I X X I X X I X X I X X I X X I X X I X X I X X I X X I X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X <td>101</td> <td>SB-BH-11</td> <td></td> <td></td> <td></td> <td>10;40am</td> <td></td> <td></td> <td></td> <td></td> <td>×</td> <td></td>	101	SB-BH-11				10;40am					×	
SB-SWSW-6 6 8/14/2006 10.25AM 1 X S X N X X N SB-SSW-6' 8' 8/14/2006 10.55AM 1 X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X	R	SB-ESW-3'		3.	8/14/2006	10:55AM					×	
SB-SSW-F 8: 8/14/2006 10.35AM 1 X I S X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X I X X <td>68</td> <td>SB-SWSW-6</td> <td></td> <td>õ</td> <td>8/14/2006</td> <td>10:25AM</td> <td>- -</td> <td></td> <td></td> <td></td> <td>×</td> <td>$\hat{}$</td>	6 8	SB-SWSW-6		õ	8/14/2006	10:25AM	- -				×	$\hat{}$
SB-NSW-6' 8' 8/14/2006 10:45AM 1 X S X N X N SB-EMSW-6' 6' 8/14/2006 10:50AM 1 X S X N X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X	204	SB-SSW-8'		õ	8/14/2006	10:35AM					×	
SB-EMSW-6 6' 8/14/2005 10:50AM 1 X S X N Celons: Please analyze TPH 8015 B (GRO/DRO) not TPH 8015M. Please put chioride results on different report. Sample Containents: X X X X X X X Please analyze TPH 8015 B (GRO/DRO) not TPH 8015M. Please put chioride results on different report. Laboratory comments: X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X	SO	SB-NSW-8'		ω	8/14/2006	10:45AM					×	~
ctions: Please analyze TPH 8015 B (GRO/DRO) not TPH 8015M. Please put chioride results on different report. ILaboratory Comments: Sample Containes Imacr Date Time Received by: Date Time Received by: Date Time Containes Imacr Date Time Received by: Date Time Received by: Date Time Container(s) & N Date Time Received by: Date Time Received by: Date Time Container(s) & N Date Time Received by: Date Time Received by: Contern UPS DNH Fedde Lone S Date Time Received by: Date Time Received by: Contern UPS DNH Fedde Lone S Date Time Received by: Date Time Received by: Contern UPS DNH Fedde Lone S Date Time Received by: Date Time Received by: Contern UPS DNH Fedde Lone S Date Time Received by: Contern UPS DNH Fedde Lone S Date Time Received by: Contern UPS DNH Fedde Lone S Date Time Received by: Contern UPS DNH Fedde Lone S Date Time Received by: Contern UPS DNH Fedde Lone S Date Time Received by: Contern UPS DNH Fedde Lone S Date Time Received by: Contern UPS DNH Fedde Lone S Date Time Received by: Contern UPS DNH Fedde Lone S Date Time Received by: Contern UPS DNH Fedde Lone S Date Time Received by: Contern UPS DNH Fedde Lone S Date Time Received by: Contern UPS DNH Fedde Lone S Date Time Received by: Contern UPS DNH Fedde Lone S Contern CONTERN CONTERN CONTERN CONTERN CONTERN CONTERN CONTERN CONTENT C	ag A	SB-EMSW-6		où	8/14/2006	10:50AM					×	
ctions: Please analyze TPH 8015 B (GRO/DRO) not TPH 8015M. Please put chioride results on different report. Tuaboratory Comments: Sample Containers Intact? (M N N N N N N N N N N N N N N N N N N												
ctions: Please analyze TPH 8015 B (GRO/DRO) not TPH 8015M. Please put chloride results on different report. Tuaboratory Comments: Sample Containes Intract? (* N VOCS Free of HeadSpace? Custody seals on container(s) Custody seals on container(s) Date Time Received by: Date Time Received												
ctions: Please analyze TPH 8015 B (GRO/DRO) not TPH 8015M. Please put chioride results on different report. Laboratory Comments: Please analyze TPH 8015 B (GRO/DRO) not TPH 8015M. Please put chioride results on different report. Tampe Containers Intact? POCS Free of Headspace? POCS Free of Headspace? POCS Free of Headspace? POCS Free of Headspace? Poster Time Received by: Date Time Received by: Da												
Control Date Time Custody seals on container(s) M 08/14/05 3:00 PM Received by: Date Time Custody seals on container(s) M 08/14/05 3:00 PM Received by: Date Time Custody seals on container(s) M 08/14/05 3:00 PM Received by: Date Time Sample Hand Delivered N 08/14/05 Time Received by: Date Time N N 08/14/05 Time Received by ELOT: No.LUL NO.LUL N N 07 Time Time Time N N N	Special Instructi		1 8015	B (GR(L not	ГРН 8015M.	Please put chioride	results on differe	1	Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace?	Ś	
Date Time Received by: Date Time Received by ELOT, Nourier UPS DHE Feelb Lone S Time Date Time Received by ELOT, Nourier UPS DHE Feelb Lone S Time Date Time Received by ELOT, Nourier No. 00000000000000000000000000000000000	Relinquished by: Sherry Bonham	Date 08/14/0		Time ::00 PM				Date	ent.	Custody seals on container(Custody seals on cooler(s) Sampte Hand Delivered		
Date Time Received by ELOT. ROLLIN 1022 8/15/00 10.40 Temperadue Upon Receipt 35	Reinquished by:	Date		Tine	Received by:			Date	Time	by Sampler/Cliant Rep. 7 by Counter? UPS	X)	N ac
	Relinquished by:	Date		amil	actived by	F.K.	laig			Temperature Upon Receipt		°C

Page 53 of 132 CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Environmental Lab of Texas

Received by OCD: 7/19/2023 11:04:19 AM

Environmental Lab of Texas Variance/ Corrective Action Report- Sample Log-In

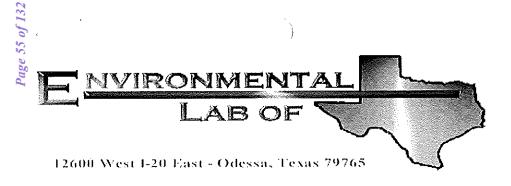
32	
of 1	· · · · · · · · · · · · · · · · · · ·
54	Environme
Page 54 of 132	Variance/ Corrective A
ent:	VILLEB
te/ Time:	8/15/04 10:40
) ID # :	641590
ials:	

Sample Receipt Checklist

Sample Receipt	0110011100		C	lient Initials
Temperature of container/ cooler?	Yes	No	3.5 °C	
Shipping container in good condition?	Xes	/ No		
Custody Seals intact on shipping container/ cooler?	Jes	No	Not Present	
Custody Seals intact on sample bottles/ container?	Xes	No	Not Present	
Chain of Custody present?	Yes	<u>No</u>		
Sample instructions complete of Chain of Custody?	¥@s	No		
Chain of Custody signed when relinquished/ received?	Yes	No		
Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
Container label(s) legible and intact?	Yos	No	Not Applicable	
0 Sample matrix/ properties agree with Chain of Custody?	1/es	No		
1 Containers supplied by ELOT?	Yes	No		
12 Samples in proper container/ bottle?	Yes_	No	See Below	
13 Samples properly preserved?	Yeg_	No No	See Below	
14 Sample bottles intact?	<u> </u>	No		
15 Preservations documented on Chain of Custody?		No		
16 Containers documented on Chain of Custody?	<u>Jes</u>	No		
17 Sufficient sample amount for indicated test(s)?	<u> </u>	No	See Below	<u> </u>
18 All samples received within sufficient hold time?	<u>¥es</u>	No	See Below	
19 VOC samples have zero headspace?	Yes	No	Not Applicable	<u> </u>

Variance Documentation

Contact:	 Contacted by:	Date/ Time:
Regarding:	 	
Corrective Action Taken:		
Received by OCD: 7/19/2023 11:04:50 AM	See attached e-mail/ fax Client understands and w Cooling process had beg	rould like to proceed with analysis un shortly after sampling event



Analytical Report

Prepared for:

Sherry Bonham Yates Petroleum Corp. 105 S. Fourth St. Artesia, NM 88210

Project: Sawbuck Water Transfer Project Number: G-23-20S-24E Location: Eddy County, NM

Lab Order Number: 6H15010

Report Date: 08/21/06

Yates Petroleum Corp. 105 S. Fourth St. Artesia NM, 88210

Project: Sawbuck Water Transfer Project Number: G-23-20S-24E Project Manager: Sherry Bonham

Fax: (505) 748-4662

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-BH-11'	6H15010-01	Soil	08/14/06 10:40	08-15-2006 10:40
SB-ESW-3'	6H15010-02	Soil	08/14/06 10:55	08-15-2006 10:40
SB-SWSW-6	6H15010-03	Soil	08/14/06 10:25	08-15-2006 10:40
SB-SSW-8'	6H15010-04	Soil	08/14/06 10:35	08-15-2006 10:40
SB-NSW-8'	6H15010-05	Soil	08/14/06 10:45	08-15-2006 10:40
SB-EMSW-6'	6H15010-06	Soil	08/14/06 10:50	08-15-2006 10:40

Page 1 of 4

Project: Sawbuck Water Transfer Project Number: G-23-20S-24E Project Manager: Sherry Bonham

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-BH-11' (6H15010-01) Soil									
Chloride	642	10.0	mg/kg	20	EH61511	08/15/06	08/15/06	EPA 300.0	
SB-ESW-3' (6H15010-02) Soil									
Chloride	316	10.0	mg/kg	20	EH61511	08/15/06	08/15/06	EPA 300.0	
SB-SWSW-6' (61115010-03) Soil									
Chloride	362	10.0	mg/kg	20	EH61511	08/15/06	08/15/06	EPA 300.0	
SB-SSW-8' (6H15010-04) Soil									······
Chloride	869	20.0	mg/kg	40	EH61511	08/15/06	08/15/06	EPA 300.0	
SB-NSW-8' (6H15010-05) Soil									
Chloride	1090	25.0	mg/kg	50	EH61511	08/15/06	08/15/06	EPA 300.0	
SB-EMSW-6' (6H15010-06) Soil									
Chloride	191	10.0	mg/kg	20	EH61511	08/15/06	08/15/06	EPA 300.0	

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EH61511 - Water Extraction										
Blank (EH61511-BLK1)				Prepared &	2 Analyzed	: 08/15/06				
Chloride	ND	0,500	mg/kg						V	
LCS (EH61511-BS1)				Prepared &	z Analyzed	: 08/15/06				
Chloride	9.79	0,500	mg/kg	10.0		97.9	80-120			
Calibration Check (EH61511-CCV1)				Prepared &	2 Analyzed	: 08/15/06				
Chloride	9.49		mg/L	10.0		94.9	80-120			
Duplicate (EH61511-DUP1)	Sour	ce: 6H15002	-02	Prepared &	2 Analyzed	: 08/15/06				
Chloriđe	42.2	5.00	mg/kg		43.4			2,80	20	
Duplicate (EH61511-DUP2)	Sour	ce: 6H15010	-01	Prepared & Analyzed: 08/15/06						
Chloride	647	10.0	mg/kg		642			0.776	20	
Matrix Spike (EH61511-MS1)	Sour	ce: 6H15002	-02	Prepared &	è Analyzed	: 08/15/06				
Chloride	149	5,00	mg/kg	100	43.4	106	80-120			
Matrix Spike (EH61511-MS2)	Sour	ce: 6H15010	-01	Prepared &	k Analyzed	: 08/15/06				
Chloride	900	10.0	mg/kg	200	642	129	80-120			S-

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Notes and Definitions

Project Number: G-23-20S-24E

Project Manager: Sherry Bonham

Project: Sawbuck Water Transfer

- S-07 Recovery outside Laboratory historical or method prescribed limits.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Raland K Julies Report Approved By:

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

Date:

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Received by OCD: 7/19/2023 11:04:19 AM

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

8/21/2006

2
. N
-
9
Sec. 1
0
-
-
3
Ci.
~
9
2
5
A
1
\mathbf{N}
00
Pilling
· Prod
0.0
00
ag
nag
mag
nag
Imag
o Imag
mag
to Imag
d to Imag
to Imag
sed to Imag
ised to Imag
ased to Imag
eased to Imag
leased to Imag
eased to Imag

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Page 60 of 132

Received by OCD: 7/19/2023 11:04:19 AM Environmental Lab of Texas

Environmental Lab of Texas Variance/ Corrective Action Report- Sample Log-In

Page 61 of 132	
e 61	Environm
Pag	Variance/ Corrective
ient:	Vates
ate/ Time:	18/15/00 10:40
ıb ID # :	6411590
itials:	VL

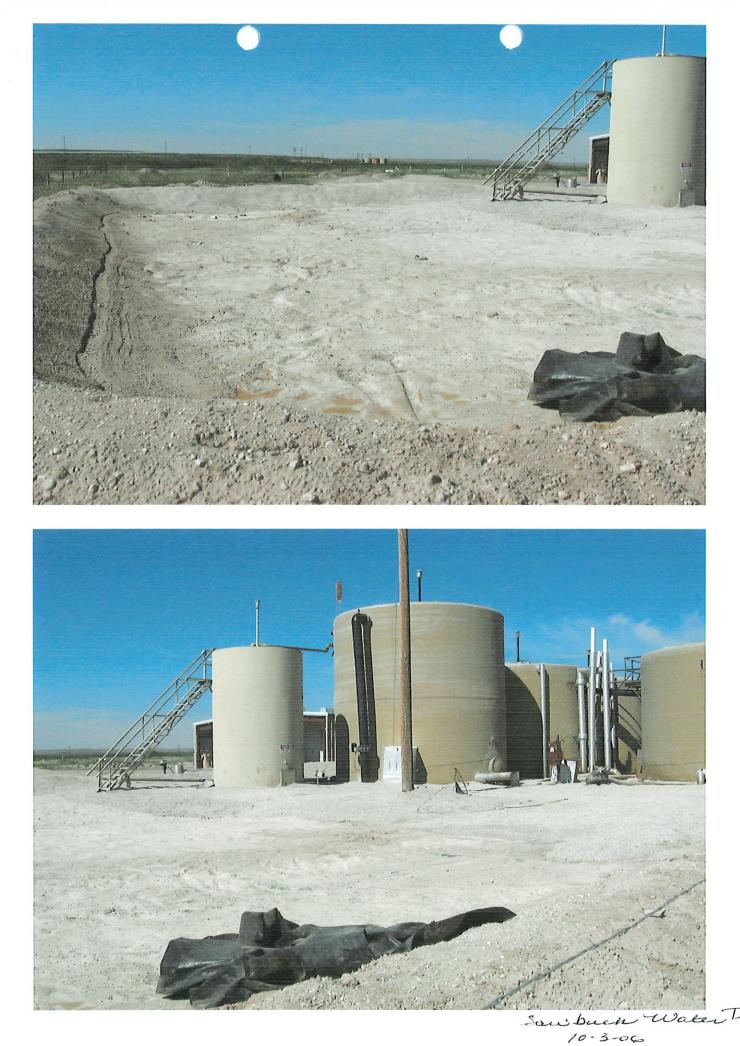
Sample Receipt Checklist

			Client	Initials
Temperature of container/ cooler?	Yes	No	3.5 °C	
2 Shipping container in good condition?	Xes	No		
3 Custody Seals intact on shipping container/ cooler?	Fas	No	Not Present	
4 Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
5 Chain of Custody present?	¥@s	No		
3 Sample instructions complete of Chain of Custody?	Yes	No		
7 Chain of Custody signed when relinquished/ received?	¥е ђ	No		
8 Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
9 Container label(s) legible and intact?	X≉ess	No	Not Applicable	
10 Sample matrix/ properties agree with Chain of Custody?	Yes	No		
11 Containers supplied by ELOT?	Yes	No		
12 Samples in proper container/ bottle?	YES	No	See Below	
13 Samples properly preserved?	Yes	No	See Below	
14 Sample bottles intact?	Yes	No_		
15 Preservations documented on Chain of Custody?	Yes	No		
16 Containers documented on Chain of Custody?) Čes	No		
17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
t18 All samples received within sufficient hold time?	¥e3	No_	See Below	
419 VOC samples have zero headspace?	Yes	No	Not Applicable	

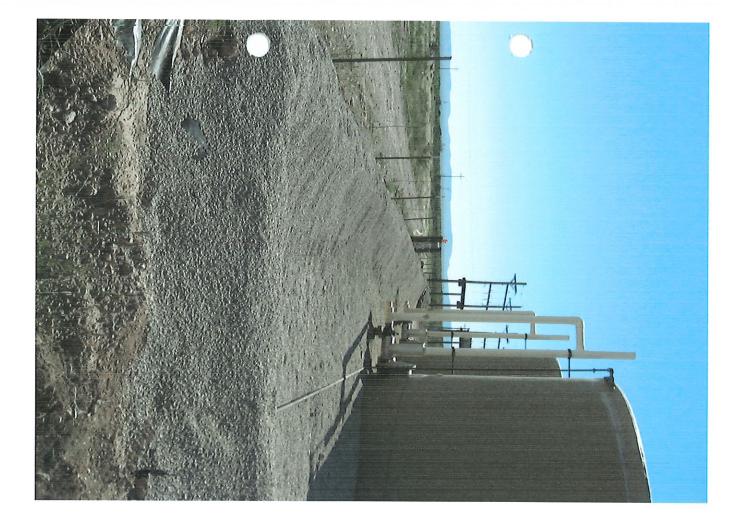
Variance Documentation

Contact:	 Contacted by:	Date/ Time:
Regarding:		·
Corrective Action Taken:		
×	 	
CE:ved by OCD: 7/19/2023 11:04:39 AA	See attached e-mail/ fax Client understands and would like to Cooling process had begun shortly a	

Received by OCD: 7/19/2023 11:04:19 AM





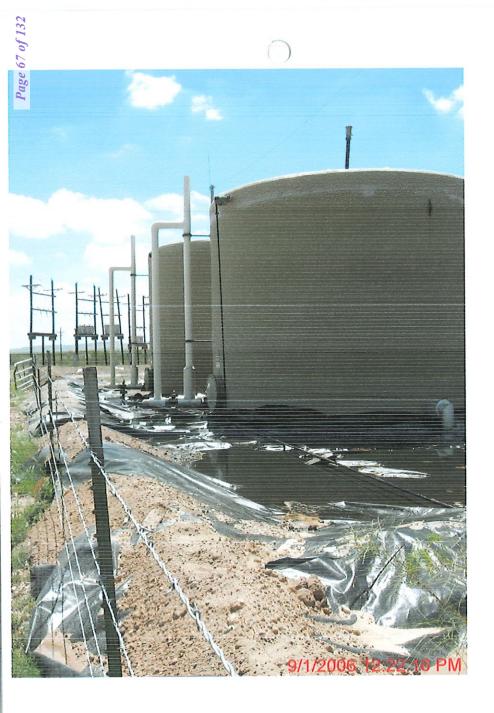


Sawbuck Water

District I 1625 N. French District II 1301 W. Grand District III 1000 Rio Brazos District IV 1220 S. St. Fran	Avenue, Arto Road, Azte	esia, NM 88210 c, NM 87410		Energy Mi	nerals	and Natura	is Distant	ED SIA	20 30 31 -	Form C-141 Revised October 10, 2003 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form
			Rele	ease Notific	catio	1 and C	precisive A	Ĝ,	/	
Name of Co	mnany			OGRID Nur	PERA	TOR Contact	VER ULCS	1.99 [%]] Initia	Report 🗌 Final Report
YATES PE		M CORPOR	ATION	25575		SHERRY E	ONHAM			
Address 105 S. 4 TH S	TREET					Telephone 1 505-748-14				
Facility Nar	ne	TRANSFE	ર	API Number		Facility Typ SWD				
Surface Ow FEDERAL	ner			Mineral C FEDERA					Lease N	lo.
				LOCA	ATIO	N OF RE	LEASE			
Unit Letter G	Section 23	Township 20S	Range 24E	Feet from the	North/	South Line	Feet from the	East/We	est Line	County EDDY
]	Latitude		Longitude				
				NAT	URE	OF REL	EASE			
Type of Relea PRODUCED						Volume of 50 B/PW	Release		√olume R I7 B/PW	tecovered
Source of Rel GUN BARRI Was Immedia	EL RISER		Yes [No 🗌 Not R	equired	Date and I 9/20/06 8 If YES, To MIKE BR	Whom?		Date and D/20/06 8	Hour of Discovery 3:45 AM
By Whom?						Date and H				
SHERRY BC Was a Watero		thed?				9/20/06 9	00 AM	the Water	ourca	
			Yes 🗵			N/A			.ouise.	
If a Watercou		•								
Describe Cau CHECK VAI CALLED IN.	VE FAILU				JUN BA	RREL RISE	R. SHUT MAIN	VALVES	. VACU	UM TRUCK AND CREW
Describe Area ALL FLUIDS REMOVED I SITE RANKI	WERE CO ROM PLA	ONTAINED V	VITHIN F	LASTIC LINED	BERMS N COMI	S. STANDIP PLETION, F	IG FLUIDS VAC	CUUMED. BE SUBM	IMPAC	TED MATERIALS TO BE
regulations al public health should their o	l operators or the envir perations h ment. In a	are required to ronment. The ave failed to a ddition, NMC	o report an acceptanc idequately ICD accep	d/or file certain r e of a C-141 repo investigate and r	elease no ort by the emediate	otifications a e NMOCD m e contaminat	nd perform correc arked as "Final R on that pose a thr	ctive action Report" doo reat to grou	ns for rele es not reli and water	tuant to NMOCD rules and cases which may endanger eve the operator of liability r, surface water, human health ompliance with any other
			-				OIL CON	SERVA	TION	DIVISION
Signatuce	Sherry Do	The second				Approved by	District Supervis	sor:		
Title: Environ			1			Annroval Da	a.		nination	Data
						Approval Da		E>	piration	
E-mail Addre Date: Septem		· · ·		e: 505-748-1471		Conditions o	f Approval:			Attached 🔲
Attach Addit					l					.L

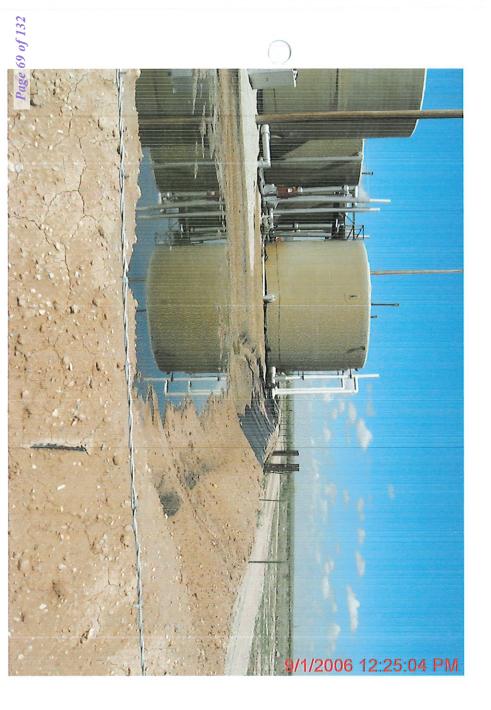
<u>istrict III</u> 000 Rio Brazos istrict IV	Avenue, Arte Road, Aztec	esia, NM 88210	Ĩ.	Energy Mir Oil C 1220 Sa	onerals Conse Sout anta H	ervation Di th St. Franc Fe, NM 875	l Resources vision vis Dr. 505			Form C-14 Revised October 10, 200 Submit 2 Copies to appropria District Office in accordanc with Rule 116 on bac side of for	
			Rele				orrective A	ction			
Name of Co				OGRID Nun		ATOR Contact		\boxtimes	Initial	Report 🗌 Final Repo	
Name of Co YATES PE		M CORPOR	ATION	25575	ibei	SHERRY E	ONHAM				
Address						Telephone					
105 S. 4 TH S Facility Nar				API Number		505-748-1471 Facility Type					
		TRANSFER	٤			SWD					
Surface Owner Mineral Ow FEDERAL FEDERAL						,			Lease No.		
				LOCA	TIC	ON OF RE	LEASE				
Unit Letter	Section	Township	Range	Feet from the		h/South Line	Feet from the	East/We	est Line	County	
G	23	208	24E							EDDY	
				Latitude		Longitude					
				Sec. March 1997		E OF REL		_			
Type of Rele	ase			IVAI	UNI	Volume o		V	Volume F	Recovered	
PRODUCED						395 B/PW 5 B/O			380 B/PW 4 B/O	V	
Source of Re	lease					Date and	Hour of Occurrence	ce I	Date and Hour of Discovery		
TANK OVE		Given?				8/31/06 1 If YES, T		8	8/31/06 1	1:00 PM	
			Yes [No 🗌 Not R	equire						
By Whom? SHERRY BO	NHAM					Date and 8/31/06 3					
Was a Water				1		If YES, Volume Impacting the Watercourse.					
If a Watercon	urse was Im	pacted, Descr				N/A					
POWER FA TRUCK AN Describe Are	D CREW C	ALLED IN.	E THUNI	DERSTORM. R						NUAL VALVES. VACUUM	
	FROM PLA						NG FLUIDS VAC 'INAL C-141 TO			CTED MATERIALS TO BE	
regulations a public health should their or the enviro	Il operators or the envi operations I nment. In a	are required to ironment. The have failed to	o report a acceptan adequatel DCD acce	nd/or file certain ce of a C-141 rep y investigate and r	release ort by remedi	e notifications a the NMOCD r iate contamina	and perform corre narked as "Final F lion that pose a the ve the operator of	ctive actio Report" do reat to gro responsib	ns for rel es not rel und wate ility for c	suant to NMOCD rules and leases which may endanger lieve the operator of liability r, surface water, human health compliance with any other	
Signature	Sheri	Buch				OIL CONSERVATION DIVISION					
Printed Nam	e: Sherry B	onham				Approved b	y District Supervis	sor:			
		egulatory Age	nt			Approval D	ate:	E	xpiration	Date:	
		o@ypcnm.con	1			Conditions	of Approval:			Attached	
Date: Septer Attach Add		ets If Medes		<u>ca</u>	nn	for Par	2ma 9.1-	06 sm			

•

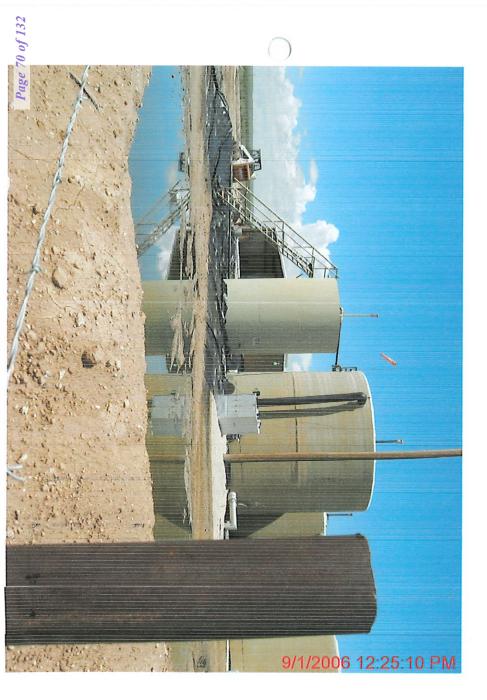


 \bigcirc





 \bigcirc



1301 W. Orand <u>District III</u> 1000 Rio Brazos		•)		Oil C	onsei	rvation Div	vision			Submit 2 Copi District Off	es to appropriate ce in accordance
District IV 1220 S. St. Fran			5				h St. Franc				with R	tule 116 on back side of forn
B 0608				ease]			e, NM 875 n and Co	orrective A	ction			
	•							RATOR		Xir	nitial Report	Final Repo
LB 0608 Name of Co	mpany	Yates Petrole	um Corp).	······································	_	Contact Da	an Dolan				
and the second se		St., Artesia N ick Water Tr		0			Telephone I Facility Typ	No. 748-4181 be Water trans	for stati	on		
Surface Ow	ner Wilb	anks Ranch		1	Mineral O	wner	Fed			Lease N	٠. ١٥.	
												
		1	-	<u> </u>			N OF RE					
Unit Letter	Section	Township 20S	Range 24E	Feetf	rom the	North	/South Lin	Feet from the	East/W	est Line	County Eddy	
G	23	<u> </u>		<u> </u>	[titude	e_Longitur	le l	L	· · · · · · · · · · · · · · · · · · ·		
							OF REL					
Type of Rele							Volume of	Release 290bbl			Recovered 260	
tanks to over	tlaw.	er failure, mai	in control	valve le	aked causi	ng	Date and 1 03-05-06,	lour of Occurrenc 0900hrs		Date and 03-05-06,	Hour of Discove , 0900hrs	ery
Was Immedi	ate Notice		Yes N	no Na	t Required		If YES, To Mike Brat	Whom? cher, District 2 NI	MOCD			
	Dan Do	85					Date and I	Tour 03-06-06, 01	300hrs			
By Whom?									A		-	
Was a Water If a Watercou Describe Cau	course Rea irse was In	ched?	dial Actio	K No .*			<u> </u>	Olume Impactin <u>e</u> (
Was a Water If a Watercou Describe Cau Power failure Describe Are Area was inst testing,	course Rea irse was In ise of Proble, tanks ove a Affected ide good bo	ched?	Ycs X ibe Fully. dial Actio er restored Action Tal eld tested	K No .* On Taken d, vacuus ken.* for chlor	<u>m trucks pl</u> ride, and re	media	ip free water, I action takon	based on that test	. If found	ł gaod, Od		
Was a Water If a Watercou Describe Cau Power failure Describe Are Area was ins testing, Ranking for t	course Rea irse was Im ise of Proble tanks over a Affected ide good bo his area is	ched?	Ycs X ibe Fully. dial Actio er restored Action Tal eld tested epth to gro	* • • • • • • • • • • • • • • • • • • •	<u>m trucks pl</u> ride, and re ter-0, Wellf	medial	ip free water, I action takon rotection area	based on that test -0, Distance to sur	. If found	f gaod, Od er-0. Wata	er 125'(trend ma	ф)
Was a Water If a Watercou Describe Cau Power failure Describe Are Area was ins testing, Ranking for t I hereby certi regulations al public health should their o or the envirge	course Rea irse was In se of Proble tanks over a Affected ide good be his area is fy that the l operators or the envi- porations i iment. In a	ched?	Yes X ibe Fully. dial Action er restored Action Tal eld tested or report an acceptant acceptant acceptant acceptant acceptant	No Taken d, vacuur ken.* for chlor ound wat e is true und/or fil ice of a C	m trucks pl ride, and re ter-0, Wellf and comple e certain re C-141 repor gate and re	emedial head pi ete to t elease n rt by th emedial	ip free water, I action takon rotection area- the best of my notifications a te NMOCD m te contaminat	based on that test	. If found face wat ndorstan. tive actio eport" do eat to gr	f good, OG er-0. Wate d that purs ons for rel oes not rel ound wate	er 125'(trend ma suant to NMOCI bases which may leve the operator r, surface water,	p) D rules and y endanger r of liability human health
Was a Water If a Watercou Describe Cau Power failure Describe Are Area was insi testing. Ranking for t I hereby certi regulations al public health should their o or the envirge	course Rea irse was In se of Proble tanks over a Affected ide good be his area is fy that the l operators or the environment. In se	ched?	Yes X ibe Fully. dial Action er restored Action Tal eld tested or report an acceptant acceptant acceptant acceptant acceptant	No Taken d, vacuur ken.* for chlor ound wat e is true und/or fil ice of a C	m trucks pl ride, and re ter-0, Wellf and comple e certain re C-141 repor gate and re	emedial head pi ete to t elease n rt by th emedial	ip free water, I action takon rotection area- the best of my notifications a te NMOCD m te contaminat	based on that test -0, Distance to sur knowledge and u nd perform correct arked as "Final R ion that pose a thr te the operator of	. If found rface wat ndorstan tive actio eport" do eat to gro responsit	f good, OG er-0. Wate d that purs ons for rel bes not rel bund wate bility for c	er 125'(trend ma suant to NMOCI bases which may leve the operator r, surface water,	p) D rules and y endanger r of liability human health
Was a Water If a Watercon Describe Cau Power failure Describe Are Area was inst testing. Ranking for t I hereby certi regulations al public health should their of or the environ federal, state, Signature:	course Rea inse was Im ise of Problection tanks over a Affected ide good be his area is is fy that the l operators or the eavi- iment. In s or local la	ched?	Yes X ibe Fully. dial Action er restored Action Tal eld tested or report an acceptant acceptant acceptant acceptant acceptant	No Taken d, vacuur ken.* for chlor ound wat e is true und/or fil ice of a C	m trucks pl ride, and re ter-0, Wellf and comple e certain re C-141 repor gate and re	enedial head pr ete to t elease n rt by the medial eport d	up free water. I action takon rotection area the best of my notifications a the NMOCD m te contaminati does not reliev	based on that test -0, Distance to sur knowledge and u nd perform correct parked as "Final R ion that pose a thr re the operator of OIL CON	. If found rfaço wat ndorstan- tive actie eport" do eat to gro responsit SERV. TIM	f good, OG er-0. Wate d that purs ons for reli- ound water ound water	er 125'(trend ma suant to NMOCI bases which may leve the operator r, surface water, ompliance with DIVISION	p) D rules and y endanger r of liability human health
Was a Water If a Watercou Describe Cau Power failure Describe Are Area was ins testing, Ranking for t I hereby certi regulations al public health should their of or the environ federal, state, Signature: Printed Name	course Rea urse was Im use of Proble tanks over a Affected ide good be his area is fy that the l operators or the eavi- iment. In a or local la c. Dan Dol	ched?	Yes X ibe Fully. dial Actio ar restored Action Tal- eld tested path to gro iven above o report au acceptante acceptante i acceptante i acceptante i acceptante i acceptante i acceptante	No Taken d, vacuur ken.* for chlor ound wat e is true und/or fil ice of a C	m trucks pl ride, and re ter-0, Wellf and comple e certain re C-141 repor gate and re	enedial head pr ete to t elease n nt by th medial eport d	ip free water, I action takon rotection area the best of my notifications a to NMOCD m te contaminati does not reliev Approved by	based on that test -0, Distance to sur knowledge and u nd perform correc narked as "Final R on that pose a thr te the operator of OIL CON District Supervis	. If found rfaço wat ndorstan. trive actio ear to gro responsit SERV. SERV. TIM	f good, OG er-0. Wate ons for rel ons for rel ound wate sility for e ATION GUM MB 22	or 125'(trend ma suant to NMOCI bases which may leve the operator r, surface water, ompliance with DIVISION	p) D rules and y endanger r of liability human health
Was a Water If a Watercou Describe Cau Power failure Describe Are Area was insi- testing, Ranking for the l hereby certi- regulations al public health should their of or the environ- federal, state, Signature: Printed Name Title: Environ-	course Rea inse was Im ise of Proble tanks over a Affected ide good be his area is fy that the il operators or the eavi- iment. In a or local la c. Dan Dol nmental Re	ched?	dial Actio er restored Action Tal eld tested path to gro iven above o report au acceptante i acceptante i acc	No Taken d, vacuur ken.* for chlor ound wat e is true und/or fil ice of a C	m trucks pl ride, and re ter-0, Wellf and comple e certain re C-141 repor gate and re	enedial head pr ete to i elease n ri by th emedial eport d	up free water. I action takon rotection area the best of my notifications a the NMOCD m te contaminati does not reliev	based on that test -0, Distance to sur -0, Distance to sur -0, Distance to sur -0, Distance to sur- -0, District Supervise -0, District Supervis	. If found rfaço wat ndorstan. trive actio ear to gro responsit SERV. SERV. TIM	f good, OG er-0. Wate d that purs ons for reli- ound water ound water	er 125'(trend ma suant to NMOC) pases which may leve the operator r, surface water, ompliance with DIVISION Mc Aca Date:	p) D rules and y endanger r of liability human health
Was a Water If a Watercou Describe Cau Power failure Describe Are Area was ins testing, Ranking for t I hereby certi- regulations at public health should their of or the environ- federal, state, Signature: Printed Name Title: Environ-	course Rea inse was Im ise of Problect tanks over a Affected ide good be his area is is fy that the il operators or the eavi- porations h iment. In a or local la cor cor cor cor cor cor cor cor cor cor	ched?	dial Actio er restored Action Tal eld tested path to gro iven above o report an acceptants flations.	A No * on Taken d, vacuur ken.* for chlor ound wat re is true und/or fil ice of a C y investi ptance o	m trucks pl ride, and re ter-0, Wellf and comple e certain re C-141 repor gate and re	enedial head pr ete to i elease n ri by th emedial eport d	ip free water. I action takon rotoction area the best of my notifications a to NMOCD m te contaminati locs not reliev Approved by Approval Da	based on that test -0, Distance to sur -0, Distance to sur -0, Distance to sur -0, Distance to sur- -0, District Supervise -0, District Supervis	. If found rfaço wat ndorstan. trive actio ear to gro responsit SERV. SERV. TIM	f good, OG er-0. Wate ons for rel ons for rel ound wate sility for e ATION GUM	or 125'(trend ma suant to NMOCI bases which may leve the operation r, surface water, ompliance with DIVISION	p) D rules and y endanger r of liability human health
Was a Water If a Watercou Describe Cau Power failure Describe Are Area was ins testing, Ranking for t I hereby certi- regulations al public health should their of or the environ- federal, state, Signature: Printed Name Title: Environ-	course Rea inse of Proble tanks over a Affected ide good be his area is fy that the or the earlier or the earlier or local la cor cor cor cor cor cor cor cor cor cor	ched?	dial Actio er restored Action Tal eld tested peth to gro iven above o report an acceptant intequately flations.	A No * on Taken d, vacuur ken.* for chlor ound wat re is true und/or fil ice of a C y investi ptance o	m trucks pl ride, and re ter-0, Wellf and comple e certain re C-141 repor gate and re	enedial head pr ete to i elease n ri by th emedial eport d	ip free water. I action takon rotoction area the best of my notifications a to NMOCD m te contaminati locs not reliev Approved by Approval Da	based on that test -0, Distance to sur -0, Distance to sur -0, Distance to sur -0, Distance to sur- -0, District Supervise -0, District Supervis	. If found rfaço wat ndorstan. trive actio ear to gro responsit SERV. SERV. TIM	f good, OG er-0. Wate ons for rel ons for rel ound wate sility for e ATION GUM	er 125'(trend ma suant to NMOC) pases which may leve the operator r, surface water, ompliance with DIVISION Mc Aca Date:	p) D rules and y endanger r of liability human health
Was a Water If a Watercou Describe Cau Power failure Describe Are Area was ins testing, Ranking for t I hereby certi- regulations al public health should their of or the environ- federal, state, Signature: Printed Name Title: Environ- E-mail Addre	course Rea inse of Proble tanks over a Affected ide good be his area is fy that the or the earlier or the earlier or local la cor cor cor cor cor cor cor cor cor cor	ched?	dial Actio er restored Action Tal eld tested peth to gro iven above o report an acceptant intequately flations.	A No * on Taken d, vacuur ken.* for chlor ound wat re is true und/or fil ice of a C y investi ptance o	m trucks pl ride, and re ter-0, Wellf and comple e certain re C-141 repor gate and re	enedial head pr ete to i elease n ri by th emedial eport d	ip free water. I action takon rotoction area the best of my notifications a to NMOCD m te contaminati locs not reliev Approved by Approval Da	based on that test -0, Distance to sur -0, Distance to sur -0, Distance to sur -0, Distance to sur- -0, District Supervise -0, District Supervis	. If found rfaço wat ndorstan. trive actio ear to gro responsit SERV. SERV. TIM	f good, OG er-0. Wate ons for rel ons for rel ound wate sility for e ATION GUM	er 125'(trend ma suant to NMOC) pases which may leve the operator r, surface water, ompliance with DIVISION Mc Aca Date:	p) D rules and y endanger r of liability human health

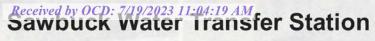


•

APPENDIX B – Closure Criteria Research Documentation

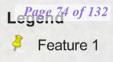
.

	ne: Sawbuck Water Transfer Station		
oill Coc	ordinates:	X: 32.562300	Y: -104.556110
te Spe	cific Conditions	Value	Unit
1	Depth to Groundwater	<50	feet
2	Within 300 feet of any continuously flowing	46 667	feet
Z	watercourse or any other significant watercourse	46,667	leet
3	Within 200 feet of any lakebed, sinkhole or playa lake	46,667	feet
J	(measured from the ordinary high-water mark)	40,007	ieet
4	Within 300 feet from an occupied residence, school,	20,067	feet
т	hospital, institution or church	20,007	1000
	i) Within 500 feet of a spring or a private, domestic		
5 fresh water well used by less than five households for		6,074	feet
5	domestic or stock watering purposes, or		
	ii) Within 1000 feet of any fresh water well or spring		feet
	Within incorporated municipal boundaries or within a		
	defined municipal fresh water field covered under a		(Y/N)
6	municipal ordinance adopted pursuant to Section 3-27-	No	
	3 NMSA 1978 as amended, unless the municipality		
	specifically approves		
7	Within 300 feet of a wetland	756	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
			Critical
9	Within an unstable area (Karst Map)	High	High
9		півн	Medium
			Low
10	Within a 100-year Floodplain	500	Woor
10	Within a 100-year hoodplain	500	year
11	Soil Type	Pima silt loam a	nd Reagan loam
11			na neugan ioani
12	Ecological Classification	Loamy and	Bottomland
12			
13	Geology	Q	þ
			<50'
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	51-100'
			>100'



0.5 mile Radius Well within radius is older than 25 years

27



Picket Rd

Picket

Sawbuck Water Transfer Station

27

27

323341104330401

Google Earth Released to Imaging: 7/25/2023 10:16:07 AM

2000 ft

N

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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)	(•						3=SW 4=SE rgest) (N	:) AD83 UTM in me	eters)	(In feet)	
	POD Sub-		Q	Q	Q							Depth	Depth	Water
POD Number	Code basin C	ounty	64	16	4 S	Бес Т	Гws	Rng	Х	Y	Distance		Water 0	Column
RA 04742	RA	ED		3	3	13 2	20S	24E	542408	3603517* 🌍	993	300		
RA 07771	RA	ED	4	1	4	22 2	20S	24E	540073	3602194* 🌍	1727			
RA 05146	RA	ED		1	2	14 2	20S	24E	541600	3604734* 🌍	1883	300	80	220
RA 05424	RA	ED	4	2	3	22 2	20S	24E	539669	3602194* 🌍	2106	1000	400	600
RA 04502	RA	ED		2	2	25 2	20S	24E	543656	3601480* 🌍	2413	300	268	32
RA 10140	RA	ED	2	1	1	35 2	20S	24E	540938	3599981* 🌍	2962	295		
RA 10139	RA	ED	3	3	2	21 2	20S	24E	538285	3602597* 🌍	3394	308		
RA 02775	RA	СН	1	4	3	21 2	20S	24E	537899	3601986* 🌍	3869	140	31	109
RA 04956	RA	ED		1	1	21 2	20S	24E	537605	3603101* 🌍	4072	1013		
RA 10618	RA	ED	1	1	4	20 2	20S	25E	546389	3602414 🌍	4739	342	212	130
RA 05038	RA	ED	1	1	4	20 2	20S	25E	546390	3602416* 🌍	4740	314	228	86
RA 05057	RA	ED		3	3	31 2	20S	25E	544071	3598678* 🌍	4815	380	312	68
RA 09978	RA	ED	3	1	2	29 2	20S	25E	546393	3601410* 🌍	4938	350		
										Avera	ge Depth to	Water:	218 f	eet
											Minimum	Depth:	31 f	eet
											Maximum	Depth:	400 f	eet
Record Count: 13				_										

UTMNAD83 Radius Search (in meters):

Easting (X): 541670

Northing (Y): 3602852

Radius: 5000

*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.

9/11/21 12:02 PM

Page 75 of 132



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

	Mahaw	Decentrates
0565	water	Resources

Groundwater	· •	United States	
Data Category:		Geographic Area:	

GO

Click to hideNews Bulletins

- Explore the NEW USGS National Water Dashboard interactive map to access realtime water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

site_no list =

• 323341104330401

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323341104330401 20S.24E.23.21444

Available data for this site Groundwater: Field measurements GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°33'41", Longitude 104°33'04" NAD27

Land-surface elevation 3,617 feet above NAVD88

The depth of the well is 272 feet below land surface.

This well is completed in the Roswell Basin aguifer system (S400RSWLBS) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

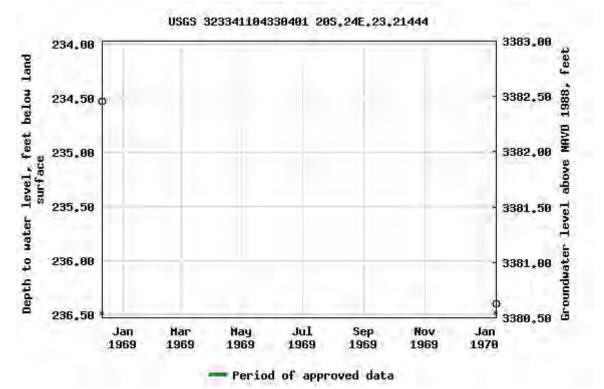
Output formats

Table of data

Tab-separated data

<u>Graph of data</u>

Reselect period



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

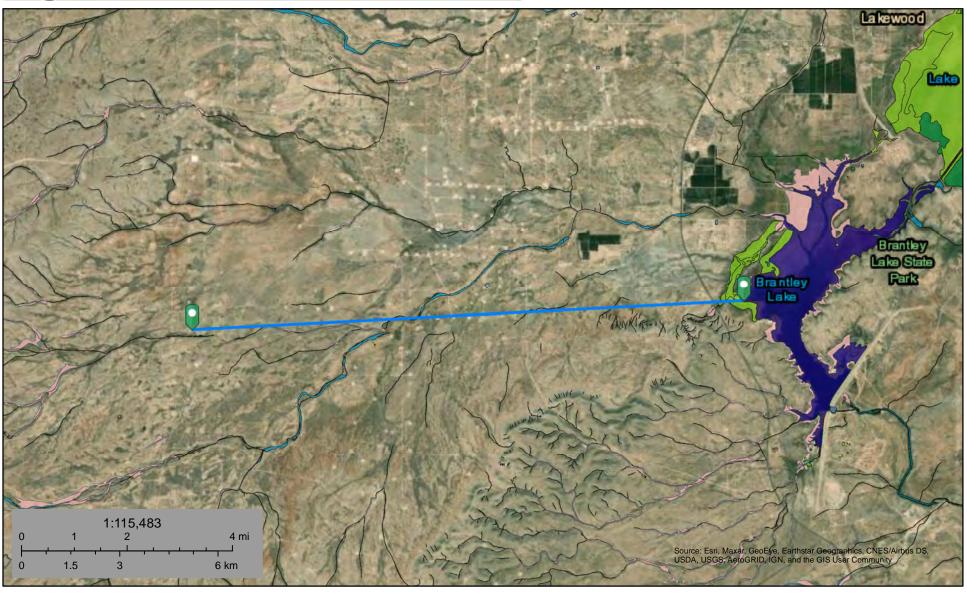
Page Contact Information: USGS Water Data Support Team Page Last Modified: 2021-09-13 14:13:21 EDT 0.61 0.51 nadww01



U.S. Fish and Wildlife Service

National Wetlands Inventory

Sawbuck Watercourse 46,667ft.



September 11, 2021

Wetlands

Estuarine and Marine Deepwater

Released to Imaging: 7/25/2023 10:16:07 AM

- Estuarine and Marine Wetland

- Freshwater Emergent Wetland Freshwater Forested/Shrub Wetland
- **Freshwater Pond**

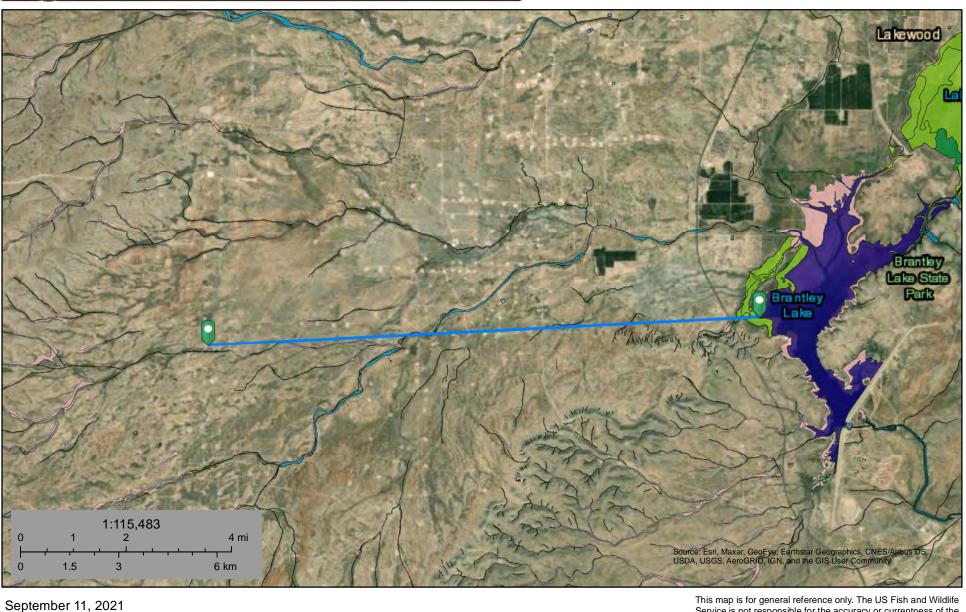
Lake Other Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

U.S. Fish and Wildlife Service

National Wetlands Inventory

Sawbuck Lake 46,667ft.



Wetlands

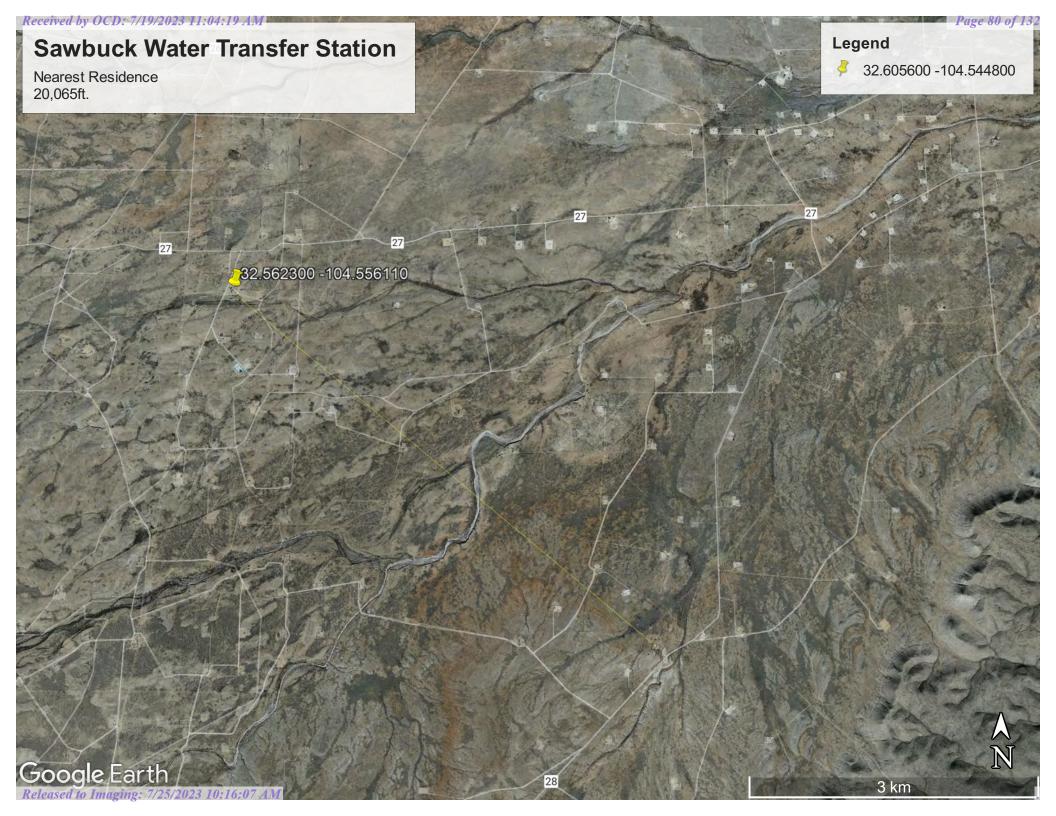
Estuarine and Marine Deepwater

- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- **Freshwater Pond**

Lake Other Riverine Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Released to Imaging: 7/25/2023 10:16:07 AM

National Wetlands Inventory (NWI) This page was produced by the NWI mapper





New Mexico Office of the State Engineer Active & Inactive Points of Diversion

(with Ownership Information)

				(R=POD has bee and no longer se	en replaced erves this file, (quarters are 1=NW 2=NE 3=SW	4=SE)
	(acre ft	per annum)		C=the file is close	ed) (quarters are smallest to largest)	(NAD83 UTM in meters)
	Sub			Well	qqq	
WR File Nbr	basin Use Div	ersion Owner	County POD Number	Tag Code Grant	Source 6416 4 Sec Tws Rng	X Y Distance
RA 04820	RA STK	3 LOYD FOSTER	ED <u>RA 04820</u>		3 2 23 20S 24E	541596 3602701* 😜 168
RA 04742	RA STK	3 LOYD FOSTER	ED <u>RA 04742</u>		Shallow 3 3 13 20S 24E	542408 3603517* 😑 993

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 541670

Northing (Y): 3602852

Radius: 1610

Sorted by: Distance

*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.

New Mexico Office of the State Engineer Point of Diversion Summary

Well Tag	POD Number RA 05146	(quarters are 1=NW (quarters are smalle Q64 Q16 Q4 Se 1 2 14	est to largest) c Tws Rng	(NAD83 UTM in meters) X Y 541600 3604734*	•
Driller Licer Driller Nam		Driller Company: (SBOURN DRIL	LING & PUMP CO.	
Drill Start D Log File Da		Drill Finish Date: PCW Rcv Date:	05/06/1968	Plug Date: Source:	Shallow
Pump Type	:	Pipe Discharge Size):	Estimated Yield	d:
Casing Size	; ;	Depth Well:	300 feet	Depth Water:	80 feet

*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.

Received by OCD: 7/19/2023 11:04:19 AM Sawbuck water Transfer Station

Nearest Town: Seven Rivers, NM Distance: 8.15 miles (43,046 feet)

23

26

Legena³ of 132

285)

A

N

23

28A

27

F. BS. BATZER

Seven Rivers

R Hwy

285

3 mi

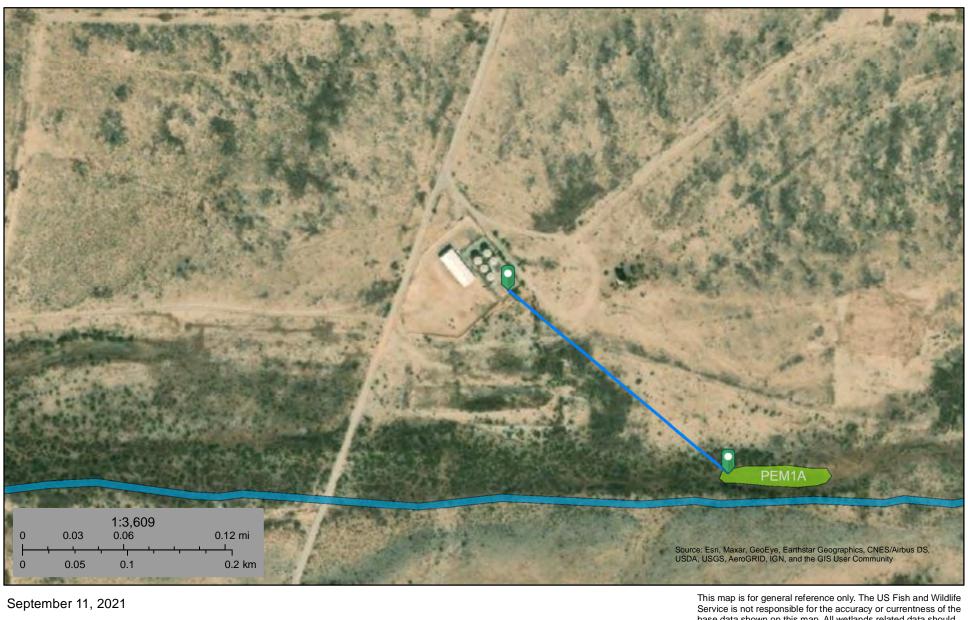
Sawbuck Water Transfer Station



U.S. Fish and Wildlife Service

National Wetlands Inventory

Sawbuck Wetland 756ft



Lake

Other

Riverine

Freshwater Emergent Wetland

Freshwater Pond

Freshwater Forested/Shrub Wetland

Wetlands

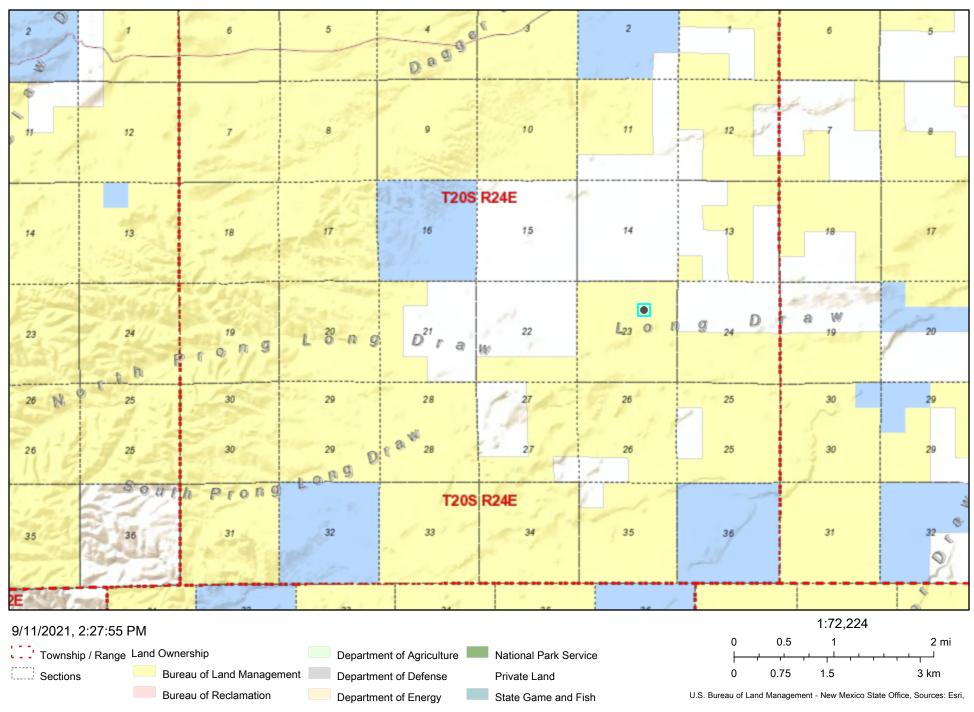
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Released to Imaging: 7/25/2023 10:16:07 AM

base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Page 85 of 132

EMNRD MMD GIS Coordinator

Active Mines in New Mexico



Released to Imaging: 7/25/2023 10:16:07 AM

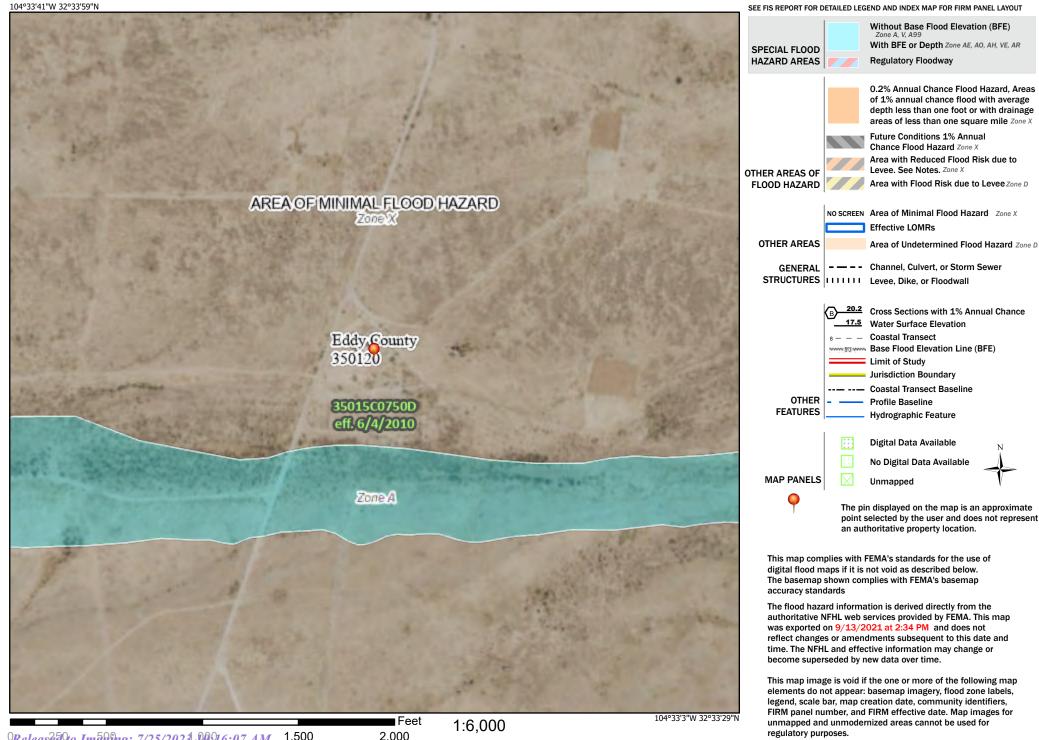
NM Energy, Minerals and Natural Resources Department (http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795)

Received by OCD: 7/19/2023 11:04:19 AM National Flood Hazard Layer FIRMette



Legend

Page 86 of 132

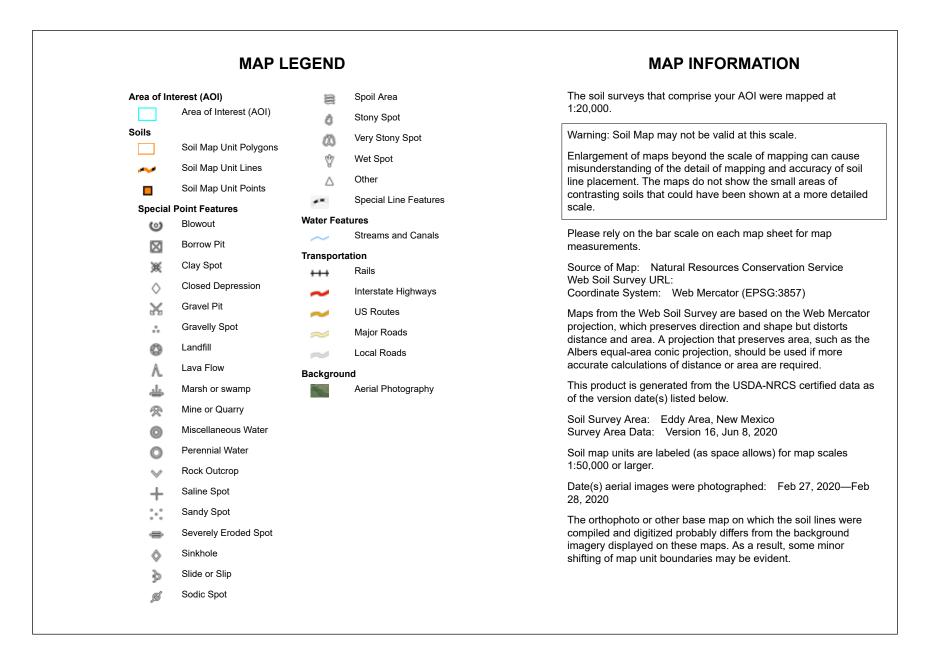


Releaseato Imaging: 7/25/2023 90916:07 AM 1,500

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

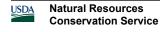


USDA Natural Resources Conservation Service Released to Imaging: 7/25/2023 10:16:07 AM Web Soil Survey National Cooperative Soil Survey 9/13/2021 Page 1 of 3



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PM	Pima silt loam, 0 to 1 percent slopes	1.1	27.1%
RA	Reagan loam, 0 to 3 percent slopes	3.0	72.9%
Totals for Area of Interest		4.2	100.0%



Eddy Area, New Mexico

PM—Pima silt loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 1w56 Elevation: 600 to 4,200 feet Mean annual precipitation: 8 to 25 inches Mean annual air temperature: 60 to 70 degrees F Frost-free period: 195 to 290 days Farmland classification: Farmland of statewide importance

Map Unit Composition

Pima and similar soils: 98 percent Minor components: 2 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pima

Setting

Landform: Alluvial fans, alluvial flats, flood plains Landform position (three-dimensional): Rise, talf Down-slope shape: Linear, convex Across-slope shape: Linear, convex Parent material: Alluvium

Typical profile

H1 - 0 to 3 inches: silt loam *H2 - 3 to 60 inches:* silty clay loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: RareNone
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: High (about 11.9 inches)

Interpretive groups

Land capability classification (irrigated): 1 Land capability classification (nonirrigated): 7c Hydrologic Soil Group: C Ecological site: R042XC017NM - Bottomland Hydric soil rating: No

Minor Components

Dev

Percent of map unit: 1 percent *Ecological site:* R042XC017NM - Bottomland *Hydric soil rating:* No

Reagan

Percent of map unit: 1 percent *Ecological site:* R042XC007NM - Loamy *Hydric soil rating:* No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020



Eddy Area, New Mexico

RA—Reagan loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5c Elevation: 1,100 to 4,400 feet Mean annual precipitation: 7 to 14 inches Mean annual air temperature: 60 to 70 degrees F Frost-free period: 200 to 240 days Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 98 percent Minor components: 2 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reagan

Setting

Landform: Alluvial fans, fan remnants Landform position (three-dimensional): Rise Down-slope shape: Linear, convex Across-slope shape: Linear Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam *H2 - 8 to 60 inches:* loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water
(Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 6e Hydrologic Soil Group: B *Ecological site:* R042XC007NM - Loamy *Hydric soil rating:* No

Minor Components

Upton

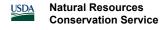
Percent of map unit: 1 percent Ecological site: R042XC025NM - Shallow Hydric soil rating: No

Atoka

Percent of map unit: 1 percent *Ecological site:* R042XC007NM - Loamy *Hydric soil rating:* No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020



Functional / Structural Groups Worksheet

State		Office		4SO	Ecological Site	Bottomland R042	XC017NM
Observers	John Tunbe				_ 8		2/12/10
	nctional / Structu			Spee	cies List for Function		roups
	lame	Potenti.1.	Actua?	D' G		Names	
	very tall bunchgrass			Big Saca			
	nid height stolon gr			Tobosag			
warm season ta	-	D		Alkali Sa			
warm season lo	ow stolon grass	D		Vine Me	squite, Plains Bristleg	grass	
XX 7		S		Cours 1 la		£-1	
	nid bunchgrass			_	lestem, white tridens,	Talse modesgrass	
salt tolerant shi	rub	S		Fourwin	g saltbush		
deciduous shru	b legume	М		honey m	esquite		
drought toleran		М			plume, american tarw	ort, littleleaf sumac	
					<u>.</u>		
Forbs		М		Coyote g	gourd, common sunflo	wer, pepperweed, gl	obemallow
					· · ·		

Indicate whether each "structural/functional group" is a Dominant (D) (roughly 40-100% composition), a Subdominant (S) (roughly 11-40%) composition) a Minor Component (M) (3-11% composition), or a Trace Component (T) (<3% composition) based on weight or cover composition in the area of interest (e.g., "Actual" column) relative to the "Potential" column derived from information found in the ecological site/description and/or at the ecological reference area.

Biological Crust dominance is evaluated solely on **cover** not composition by weight.

Biological Crus?

Ecological Reference Worksheet

Author(s) / participant(s):	John Tunberg,						
Contact for lead author :	505-761-4488	Reference site used? Yes/No No					
Date: 2/12/2010 M	ILRA: 42.3 Ecological Site: Loamy	This <i>must</i> be verified based on soils					
and climate (see Ecological Si	and climate (see Ecological Site Description). Current plant community <u>cannot</u> be used to identify the ecological site.						
	tor, describe the potential for the site. Where possi	· · · · · · · · · · · · · · · · · · ·					
range of values for above and (3) site data. Continue descrip	below average years for <u>each</u> community within the tion on separate sheet.	e reference state, when appropriate &					
1. Number and extent of rills	There should not be any rills.						
	gh human or herbivore impacts or extended drought or c						
	nargins of this site after high-intensity summer thunders	storms. Any rills formed should not be long lived or					
interconnected and should heal ra							
-	tterns: There can be evidence of sheet flow.						
present following intense storm e	that should be short and discontinuous. There can be so events on upper slope limits at the margins of this site. N after wildfires, or abnormally high human or herbivore i	Numerous obstructions alter flow paths. Flow pattern					
3. Number and height of eros	sional pedestals or terracettes: Pedestals should be	rare. Terracettes can occure and should be discontinuous					
There can be a few pedestals that	t should be less than 1 inch high. Terracettes can be con	nmon and should be discontinuous. If present plant or					
~	almost always in flow patterns. Wind caused pedestals						
	nan or herbivore impacts or extended drought or combin	nations of these disturbances. These would show signs					
of healing within 1 year after eve	nt. cal Site Description or other studies (rock, litter, lich	an moss plant canony are not hare ground) :					
	o of the ground cover on this site according to the ESD.						
5. Number of gullies and eros	· · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · · ·	1					
	· · · · · · · · · · · · · · · · · · ·						
	ith gullies should be rare are infrequent. Typically, gulli						
	o active cutting are common on this site. There should n vildfire, or abnormally high human or herbivore impacts						
	1 would be accelerated for a year or two. Evidence of he						
	lowouts and/or depositional area						
	bured, blowouts and/or depositional areas. However the	re can be notential for denositional areas Wind					
-	is in a well vegetated condition. Significant wind erosio	· ·					
	dfire, or abnormally high human or herbivore impacts or						
	xposed soil surfaces form physical crusts that tend to re						
	s in fact a primary soil forming process. This site is suc	ceptable to wind erosion when vegetation is removed					
or significantly decreased.							
	t (describe size and distance expected to travel) :						
	"1 in diameter) and its movement should be minimal. Most of the litter movement on this site will be litter that						
	on the site and only travels short distances.	it has been transported onto the site from adjacent sites.					
	resistance to erosion (stability) values are averages -	most sites will show a range of values for both					
plant canopy and interspace	ces, if different) :	U U					
This site can be susceptible to all	uvial erosion. Stability values are estimated to be 1-2 in	n interspaces and 3-5 at bases of vegetation. This would					
9. Soil surface structures and plant canopy and interspace	l SOM content (include type and strength of structu ces, if different) :	re, and A-horizon color and thickness for both					
The SOM content should be less	than 1%. A0 to 6 inches; grayish brown (10YR 5/2) I	oam, dark grayish brown (10YR 4/2) moist; weak fine					
subangular blocky structure; hard, friable, slightly sticky; surface 1/2 to 2 inches has weak thin to medium platy structure; common very fine							
and fine pores; common very fine, fine and medium roots; strongly calcareous; slightly alkaline (pH 7.6); clear smooth boundary. (4 to 8 inches							
thick) 10. Effect of plant community composition (relative proportion of different functional groups) & spatial distribution on infiltration							
10. Effect of plant community & runoff:	composition (relative proportion of different function	unal groups) & spatial distribution on inflitration					
	be slow for this site but can be higher around bases of g moderately deep. The moderately deep soils have either						
	res are loam, silt loam, very fine sandy loam, or clay loa						
	res are silt loam, clay loam silty clay loam, gravelly loa						
	and the available water holding capacity is high to mod						

11. Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction):

There should not be any compaction layers on this site. There are soil profile features in the top 9 inches of the soil profile that would be mistaken for a management induced soil compaction layer. Management induced compaction layers will be more difficult to penetrate than clay lenses.

12. Functional/Structural Groups (list in order of descending dominance by above-ground weight using symbols: indicate much greater than (>>), greater than (>), and equal to (=) :

black grama >> tobosa > C 4 bunch grasses (dropseeds) > C4 midgrasses (threeawns) >= soaptree yucca, ephedra, fourwing saltbush >= forbs (croton, desert marigold, globemallow, > broom snakeweed, prickly pear, = other forbs.

13. Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence) : Black grama and bunchgrasses can show decadence in centers of plants.

14. Average percent litter cover (_____%) and depth (_____ inches).

Average 15% cover and 0.75 inch deep. (As per ESD)

15. Expected annual production (this is <u>TOTAL</u> above-ground production, not just forage production):

(Low Production 650 lbs./ac.) (Average RV Production 925 lbs./ac.) (High Production 1200 lbs./ac.) After wildfires, high herbivore impacts, extended drought, or combinations of these disturbances, can cause production to be significantly reduced (100-200 lbs per ac. the first growing season following a wildfire) and recover slowly under below average precipitation regimes.

16. Potential invasive (including noxious) species (native and non-native). List species which characterize degraded states and which, after a threshold is crossed, "can, and often do, continue to increase regardless of the management of the site and may eventually dominate

Tarbush, creosote and mesquite can be invaders to this site. Invasive plants should not occur in reference plant community. However, lovegrass, Russian thistle, kochia, and other nonnative annuals may initialy invade following extended disturbance. Mesquite and tarbush and creosote and lovegrass are the greatest threat to dominate this site in the long term after disturbance (primarily following wildfire exclusion but also includes high human or herbivore impacts and extended drought). Mesquite and tarbush and creosote and lovegrass are most likely to retain dominance if allowed to alter natural fire regime (this alteration may require poor land management combined with years of wet winterspring; dry summer-fall conditions). Any of these invaded communities represent a departure from the reference state.

17. Perennial plant reproductive capability :

Black grama reproduces by seed sporadically and reproduction by tiller and stolon can be common. The C4 midgrasses should have high reproductive potential and rapidly recover from drought in the absence of additional stresses (grazing).

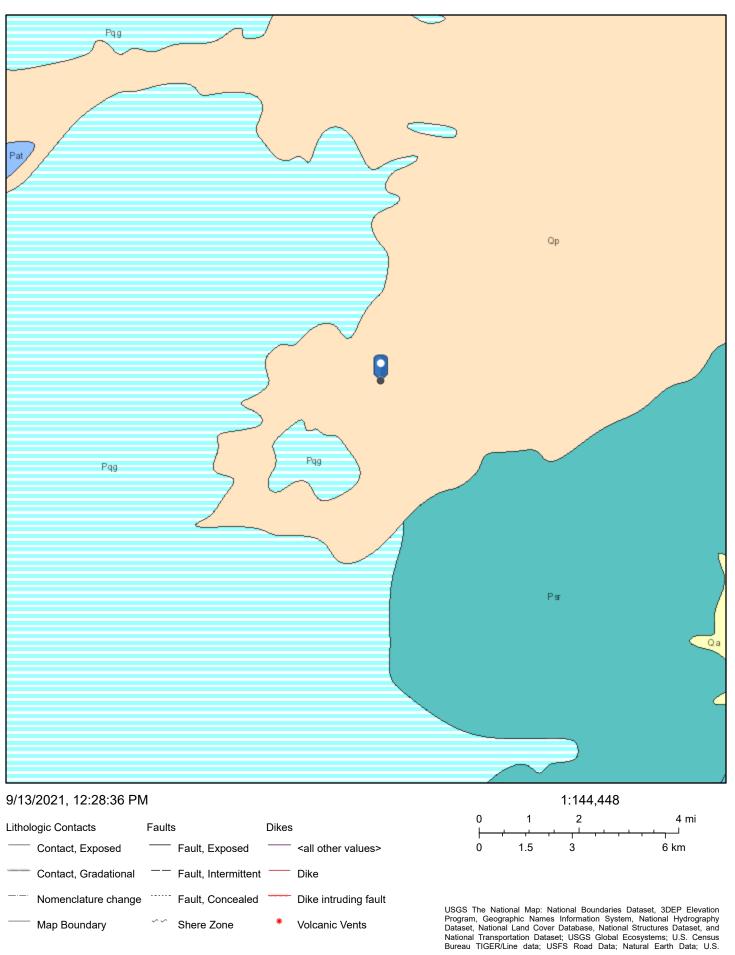
•

Photograph (s)

MLRA :]	Date :	
Ecological Site :				
Photo # 1				
Comments :				
Comments.				
Photo # 2				
Comments :				

Received by OCD: 7/19/2023 11:04:19 AM

Sawbuck Water Transfer Station



ArcGIS Web AppBuilder

APPENDIX C – Daily Field Report

Daily Site Visit Report



Client:	EOG Resources Inc.	Inspection Date:	6/5/2023		
Site Location Name:	Sawbuck Water Transfer	Report Run Date:	6/5/2023 5:27 PM		
Client Contact Name:	Chase Settle	API #:			
Client Contact Phone #:	575-703-6537				
Unique Project ID		Project Owner:			
Project Reference #		Project Manager:			
		Summary of	limes 🦷		
Arrived at Site	6/5/2023 9:30 AM				
Departed Site	6/5/2023 12:00 PM				
	Field Notes				

11:23 Arrived on site and filled out safety paperwork.

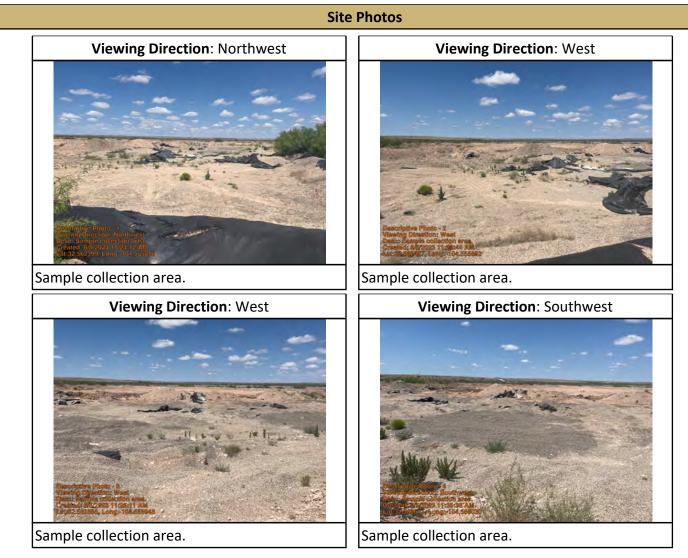
11:23 Collected and field screened samples BH23-03 through BH23-05 at 1'.

Next Steps & Recommendations

1

Daily Site Visit Report

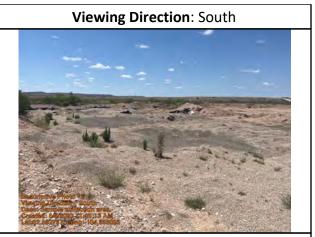




Run on 6/5/2023 5:27 PM UTC

Daily Site Visit Report





Sample collection area.

V

VERTEX

Daily Site Visit Report

Daily Site Visit Signature

Inspector: Hunter Klein

Signature:

Run on 6/5/2023 5:27 PM UTC

Page 4 of 4

•

APPENDIX D – Notification

From:	Tina Huerta
To:	<u>ocd.enviro@emnrd.nm.gov;</u> <u>blm_nm_cfo_spill@blm.gov</u>
Cc:	Artesia S&E Spill Remediation; Artesia Regulatory
Subject:	Sawbuck Water Transfer (nJMW1317031601 (2RP-1685), nJMW1327753065 (2RP-1973), nKMW0800954755, nKMW0800954324, nMLB0608954436, nKMW0800954709) Sampling Notification
Date:	May 30, 2023 4:44:29 PM
Attachments:	image001.png

Good afternoon,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Sawbuck Water Transfer G-23-20S-24E Eddy County, NM nJMW1317031601 (2RP-1685), nJMW1327753065 (2RP-1973), nKMW0800954755, nKMW0800954324, nMLB0608954436, nKMW0800954709

Sampling will begin at 9:00 a.m. on Thursday, June 1, 2023, and continue through Wednesday, June 7, 2023.

Thank you,

Tina Huerta Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121 Email: tina huerta@eogresources.com

?

Artesia Division

APPENDIX E – Laboratory Data Reports and Chain of Custody Forms



June 13, 2023

Chance Dixon Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040 FAX:

RE: Sawbuck Water Transfer

OrderNo.: 2306177

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 8 sample(s) on 6/6/2023 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project:

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2306177-001

Sawbuck Water Transfer

Separate Incident - Past Closure Report Hall Environmental Analysis Laboratory, Inc.

Lab Order 2306177 Date Reported: 6/13/2023 Client Sample ID: BH23-02 0'

Analytical Report

Collection Date: 6/2/2023 9:25:00 AM Received Date: 6/6/2023 8:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/7/2023 7:04:49 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/7/2023 7:04:49 PM
Surr: DNOP	92.8	69-147	%Rec	1	6/7/2023 7:04:49 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/10/2023 8:24:21 AM
Surr: BFB	97.7	15-244	%Rec	1	6/10/2023 8:24:21 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	6/10/2023 8:24:21 AM
Toluene	ND	0.048	mg/Kg	1	6/10/2023 8:24:21 AM
Ethylbenzene	ND	0.048	mg/Kg	1	6/10/2023 8:24:21 AM
Xylenes, Total	ND	0.095	mg/Kg	1	6/10/2023 8:24:21 AM
Surr: 4-Bromofluorobenzene	90.8	39.1-146	%Rec	1	6/10/2023 8:24:21 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	140	60	mg/Kg	20	6/8/2023 3:42:19 PM

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

Е Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 1 of 12

*

CLIENT: Vertex Resources Services, Inc.

Sawbuck Water Transfer

Separate Incident - Past Closure Report Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2306177 Date Reported: 6/13/2023

Client Sample ID: BH23-02 1' Collection Date: 6/2/2023 9:30:00 AM Received Date: 6/6/2023 8:35:00 AM

Lab ID: 2306177-002	Matrix: SOIL	Rece	eived Date:	6/6/20	23 8:35:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	16	9.8	mg/Kg	1	6/7/2023 7:15:49 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/7/2023 7:15:49 PM
Surr: DNOP	92.5	69-147	%Rec	1	6/7/2023 7:15:49 PM
EPA METHOD 8015D: GASOLINE RANGI	E				Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/10/2023 9:34:42 AM
Surr: BFB	99.7	15-244	%Rec	1	6/10/2023 9:34:42 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	6/10/2023 9:34:42 AM
Toluene	ND	0.048	mg/Kg	1	6/10/2023 9:34:42 AM
Ethylbenzene	ND	0.048	mg/Kg	1	6/10/2023 9:34:42 AM
Xylenes, Total	ND	0.097	mg/Kg	1	6/10/2023 9:34:42 AM
Surr: 4-Bromofluorobenzene	92.4	39.1-146	%Rec	1	6/10/2023 9:34:42 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	6/8/2023 3:54:43 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

- Not Detected at the Reporting Limit
- ND PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 12

Lab ID:

CLIENT: Vertex Resources Services, Inc.

2306177-003

Sawbuck Water Transfer

Separate Incident - Past Closure Report Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2306177 Date Reported: 6/13/2023

Client Sample ID: BH23-02 2' Collection Date: 6/2/2023 9:35:00 AM

Received Date: 6/6/2023 8:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: PRD
Diesel Range Organics (DRO)	10	9.4	mg/Kg	1	6/7/2023 7:37:41 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/7/2023 7:37:41 PM
Surr: DNOP	98.3	69-147	%Rec	1	6/7/2023 7:37:41 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/10/2023 10:45:13 AM
Surr: BFB	98.1	15-244	%Rec	1	6/10/2023 10:45:13 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	6/10/2023 10:45:13 AM
Toluene	ND	0.047	mg/Kg	1	6/10/2023 10:45:13 AM
Ethylbenzene	ND	0.047	mg/Kg	1	6/10/2023 10:45:13 AM
Xylenes, Total	ND	0.093	mg/Kg	1	6/10/2023 10:45:13 AM
Surr: 4-Bromofluorobenzene	92.4	39.1-146	%Rec	1	6/10/2023 10:45:13 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	6/8/2023 4:07:08 PM

Matrix: SOIL

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

Page 3 of 12

CLIENT: Vertex Resources Services, Inc.

Sawbuck Water Transfer

Separate Incident - Past Closure Report Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2306177

Date Reported: 6/13/2023

Client Sample ID: BH23-02 3' Collection Date: 6/2/2023 9:40:00 AM Dessived Deta: 6/6/2022 8:25:00 AM

Lab ID: 2306177-004	Matrix: SOIL	Rece	eived Date:	6/6/20	23 8:35:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	9.6	8.9	mg/Kg	1	6/7/2023 7:59:26 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	6/7/2023 7:59:26 PM
Surr: DNOP	101	69-147	%Rec	1	6/7/2023 7:59:26 PM
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/10/2023 11:08:46 AM
Surr: BFB	98.0	15-244	%Rec	1	6/10/2023 11:08:46 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	6/10/2023 11:08:46 AM
Toluene	ND	0.049	mg/Kg	1	6/10/2023 11:08:46 AM
Ethylbenzene	ND	0.049	mg/Kg	1	6/10/2023 11:08:46 AM
Xylenes, Total	ND	0.097	mg/Kg	1	6/10/2023 11:08:46 AM
Surr: 4-Bromofluorobenzene	91.2	39.1-146	%Rec	1	6/10/2023 11:08:46 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	6/8/2023 4:19:32 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 4 of 12

CLIENT: Vertex Resources Services, Inc.

Sawbuck Water Transfer

Separate Incident - Past Closure Report Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2306177

Date Reported: 6/13/2023

Client Sample ID: BH23-02 4' Collection Date: 6/2/2023 9:45:00 AM Dessived Deta: 6/6/2022 8:25:00 AM

Matrix: SOIL	Rec	eived Date:	6/6/20	023 8:35:00 AM
Result	RL Qu	al Units	DF	Date Analyzed
L RANGE ORGANICS				Analyst: PRD
13	9.7	mg/Kg	1	6/7/2023 8:21:10 PM
ND	49	mg/Kg	1	6/7/2023 8:21:10 PM
88.6	69-147	%Rec	1	6/7/2023 8:21:10 PM
IE RANGE				Analyst: JJP
ND	5.0	mg/Kg	1	6/10/2023 11:32:14 AM
97.4	15-244	%Rec	1	6/10/2023 11:32:14 AM
ES				Analyst: JJP
ND	0.025	mg/Kg	1	6/10/2023 11:32:14 AM
ND	0.050	mg/Kg	1	6/10/2023 11:32:14 AM
ND	0.050	mg/Kg	1	6/10/2023 11:32:14 AM
ND	0.099	mg/Kg	1	6/10/2023 11:32:14 AM
91.3	39.1-146	%Rec	1	6/10/2023 11:32:14 AM
				Analyst: JMT
ND	60	mg/Kg	20	6/8/2023 4:31:57 PM
	Result L RANGE ORGANICS 13 ND 88.6 IE RANGE ND 97.4 ES ND ND ND ND 91.3	Result RL Que L RANGE ORGANICS 13 9.7 ND 49 88.6 69-147 ND 5.0 97.4 15-244 ES ND 0.025 ND 0.050 ND 0.050 ND 0.050 ND 0.099 91.3 39.1-146	Result RL Qual Units 13 9.7 mg/Kg ND 49 mg/Kg 88.6 69-147 %Rec IE RANGE ND 5.0 mg/Kg 97.4 15-244 %Rec ES ND 0.025 mg/Kg ND 0.050 mg/Kg ND 0.099 mg/Kg 91.3 39.1-146 %Rec	Result RL Qual Units DF L RANGE ORGANICS 13 9.7 mg/Kg 1 ND 49 mg/Kg 1 88.6 69-147 %Rec 1 IE RANGE ND 5.0 mg/Kg 1 97.4 15-244 %Rec 1 97.4 15-244 %Rec 1 ES ND 0.025 mg/Kg 1 ND 0.050 mg/Kg 1 ND 0.050 mg/Kg 1 ND 0.050 mg/Kg 1 ND 0.099 mg/Kg 1 ND 0.099 mg/Kg 1 91.3 39.1-146 %Rec 1

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D н

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 5 of 12

CLIENT: Vertex Resources Services, Inc.

Sawbuck Water Transfer

Analytical Report Lab Order 2306177

Date Reported: 6/13/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-03 0' Collection Date: 6/2/2023 9:50:00 AM Received Date: 6/6/2023 8:35:00 AM

Lab ID: 2306177-006	Matrix: SOIL	Rec	eived Date:	6/6/20	23 8:35:00 AM
Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/7/2023 8:42:52 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/7/2023 8:42:52 PM
Surr: DNOP	89.8	69-147	%Rec	1	6/7/2023 8:42:52 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/10/2023 11:55:41 AM
Surr: BFB	98.3	15-244	%Rec	1	6/10/2023 11:55:41 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	6/10/2023 11:55:41 AM
Toluene	ND	0.048	mg/Kg	1	6/10/2023 11:55:41 AM
Ethylbenzene	ND	0.048	mg/Kg	1	6/10/2023 11:55:41 AM
Xylenes, Total	ND	0.097	mg/Kg	1	6/10/2023 11:55:41 AM
Surr: 4-Bromofluorobenzene	92.7	39.1-146	%Rec	1	6/10/2023 11:55:41 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	6/8/2023 5:09:11 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 6 of 12

Analytical Report Lab Order 2306177

Date Reported: 6/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-04 0 **Project:** Sawbuck Water Transfer Collection Date: 6/2/2023 9:55:00 AM Lab ID: 2306177-007 Matrix: SOIL Received Date: 6/6/2023 8:35:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: PRD EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 9.2 mg/Kg 1 6/7/2023 8:53:44 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 6/7/2023 8:53:44 PM Surr: DNOP 90.4 69-147 %Rec 1 6/7/2023 8:53:44 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.7 6/10/2023 12:19:11 PM mg/Kg 1 Surr: BFB 98.9 15-244 %Rec 1 6/10/2023 12:19:11 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 6/10/2023 12:19:11 PM 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 6/10/2023 12:19:11 PM Ethylbenzene ND 0.047 mg/Kg 1 6/10/2023 12:19:11 PM Xylenes, Total ND 0.095 mg/Kg 6/10/2023 12:19:11 PM 1 Surr: 4-Bromofluorobenzene 93.4 39.1-146 %Rec 1 6/10/2023 12:19:11 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT mg/Kg Chloride 6/8/2023 5:21:36 PM ND 60 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

Analyte detected in the associated Method Blank в

- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 7 of 12

Released to Imaging: 7/25/2023 10:16:07 AM

CLIENT: Vertex Resources Services, Inc.

Sawbuck Water Transfer

Analytical Report Lab Order 2306177

Date Reported: 6/13/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-05 0' Collection Date: 6/2/2023 10:00:00 AM **Received Date:** 6/6/2023 8:35:00 AM

Lab ID: 2306177-008	Matrix: SOIL	Rece	vived Date:	6/6/20	23 8:35:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/7/2023 9:04:39 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/7/2023 9:04:39 PM
Surr: DNOP	91.6	69-147	%Rec	1	6/7/2023 9:04:39 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: JJP
Gasoline Range Organics (GRO)	6.8	4.8	mg/Kg	1	6/10/2023 12:42:43 PM
Surr: BFB	109	15-244	%Rec	1	6/10/2023 12:42:43 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	0.028	0.024	mg/Kg	1	6/10/2023 12:42:43 PM
Toluene	0.17	0.048	mg/Kg	1	6/10/2023 12:42:43 PM
Ethylbenzene	0.061	0.048	mg/Kg	1	6/10/2023 12:42:43 PM
Xylenes, Total	0.46	0.096	mg/Kg	1	6/10/2023 12:42:43 PM
Surr: 4-Bromofluorobenzene	95.3	39.1-146	%Rec	1	6/10/2023 12:42:43 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	6/8/2023 5:34:01 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 8 of 12

Client: Project:		ex Resources Se buck Water Trai		Inc.									
Sample ID:	MB-75461	SampTy	/pe: mb	lk	Tes	tCode: EF	PA Method	A Method 300.0: Anions					
Client ID:	PBS	Batch	ID: 754	461	F	RunNo: 97318							
Prep Date:	6/8/2023	2023 Analysis Date: 6/8/2023 SeqNo: 3535350 Units: mg/Kg											
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Chloride		ND	1.5										
Sample ID:	LCS-75461	SampTy	/pe: lcs		Tes	tCode: EF	PA Method	300.0: Anions	;				
Client ID:	LCSS	Batch	ID: 754	461	F	RunNo: 97	7318						
Prep Date:	6/8/2023	Analysis Date: 6/8/2023 SeqNo: 3535352 Units: mg/Kg											
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Chloride		14	1.5	15.00	0	93.0	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 Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 12

2306177

13-Jun-23

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:		Resources Se k Water Trai		Inc.							
Sample ID:	LCS-75370	SampTy	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Dies	el Range	Organics	
Client ID:	LCSS	Batch	ID: 75	370	RunNo: 97270						
Prep Date:	6/6/2023	Analysis Da	ate: 6/	7/2023	S	SeqNo: 35	533132	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		5.4		5.000		108	69	147			
Sample ID:	LCS-75399	SampTy	/pe: LC	S	Tes	tCode: EF	PA Method	8015M/D: Dies	el Range	Organics	
Client ID:	LCSS	Batch	ID: 75	399	F	RunNo: 97	7270				
Prep Date:	6/6/2023	Analysis Da	ate: 6/	7/2023	S	SeqNo: 35	533133	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.3		5.000		86.4	69	147			
Sample ID:	LCS-75406	SampTy	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Dies	el Range	Organics	
Client ID:	LCSS	Batch	ID: 754	406	F	RunNo: 97	7270				
Prep Date:	6/7/2023	Analysis Da	ate: 6/	7/2023	S	SeqNo: 35	533134	Units: mg/Kg	J		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Organics (DRO)	48	10	50.00	0	95.2	61.9	130			
Surr: DNOP		4.7		5.000		93.1	69	147			
Sample ID:	MB-75370	SampTy	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Dies	el Range	Organics	
Client ID:	PBS	Batch	ID: 75	370	F	RunNo: 97	7270				
Prep Date:	6/6/2023	Analysis Da	ate: 6/	7/2023	S	SeqNo: 35	533136	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		11		10.00		109	69	147			
Sample ID:	MB-75399	SampTy	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Dies	el Range	Organics	
Client ID:	PBS	Batch	ID: 75	399	F	RunNo: 97	7270				
Prep Date:	6/6/2023	Analysis Da	ate: 6/	7/2023	S	SeqNo: 35	533137	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.6		10.00		96.3	69	147			
Sample ID:	MB-75406	SampTy	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Dies	el Range	Organics	
Client ID:	PBS	Batch	ID: 754	406	F	RunNo: 97	7270				
Prep Date:	6/7/2023	Analysis Da	ate: 6/	7/2023	Ş	SeqNo: 35	533138	Units: mg/Kg	J		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Organics (DRO)	ND	10								
Motor Oil Rang Surr: DNOP	ge Organics (MRO)	ND 9.5	50	10.00		95.3	69	147			
SUIT: DINOP		9.0		10.00		90.3	69	147			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- Р RL Reporting Limit

2306177

13-Jun-23

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Vertex Re Sawbuck			Inc.							
Sample ID:	lcs-75393	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	ine Range	•	
Client ID:	LCSS	Batch	n ID: 75	393	F	RunNo: 9 7	7323				
Prep Date:	6/6/2023	Analysis D	ate: 6/	10/2023	5	SeqNo: 3	537032	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	22	5.0	25.00	0	88.4	70	130			
Surr: BFB		1900		1000		192	15	244			
Sample ID:	mb-75393	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	ine Range		
Client ID:	PBS	Batch	n ID: 75	393	RunNo: 97323						
Prep Date:	6/6/2023	Analysis D	Analysis Date: 6/10/2023 SeqNo: 3537034 Units: mg/Kg								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	ND	5.0								
Surr: BFB		960		1000		95.8	15	244			
Sample ID:	2306177-001ams	SampT	ype: MS	6	Tes	tCode: El	PA Method	8015D: Gaso	ine Range)	
Client ID:	BH23-02 0'	Batch	n ID: 75	393	F	RunNo: 9 7	7323				
Prep Date:	6/6/2023	Analysis D	ate: 6/	10/2023	S	SeqNo: 3	537047	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	22	4.8	23.95	0	93.2	70	130			
Surr: BFB		1900		957.9		201	15	244			
Sample ID:	2306177-001amsd	SampType: MSD TestCode: EPA Method 8015D: Gasoline Range									
Client ID:	BH23-02 0'	Batch	n ID: 75	393	F	RunNo: 9 7	7323				

Client ID: BH23-02 0'	Batch	n ID: 753	393	F	RunNo: 97	/323				
Prep Date: 6/6/2023	Analysis D	ate: 6/*	10/2023	S	SeqNo: 35	537048	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	24.04	0	95.0	70	130	2.30	20	
Surr: BFB	2000		961.5		203	15	244	0	0	

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 Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2306177

13-Jun-23

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Vertex Re Sawbuck			Inc.								
Sample ID:	LCS-75393	Samp	Type: LC	S	Tes	tCode: EF						
Client ID:	LCSS	Batc	h ID: 75	393	F	RunNo: 97323						
Prep Date:	6/6/2023	Analysis [Date: 6/	10/2023	S	SeqNo: 3	537094	Units: mg/k	Units: mg/Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		0.91	0.025	1.000	0	91.1	70	130				
Toluene		0.90	0.050	1.000	0	90.5	70	130				
Ethylbenzene		0.89	0.050	1.000	0	88.8	70	130				
Xylenes, Total		2.7	0.10	3.000	0	90.0	70	130				
Surr: 4-Brom	ofluorobenzene	0.94		1.000		94.1	39.1	146				
Sample ID:	mb-75393	Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles			
Client ID:	PBS	Batc	h ID: 75 :	393	F	RunNo: 9 7	7323					
Prep Date:	6/6/2023	Analysis [Date: 6/	10/2023	S	SeqNo: 3	537096	Units: mg/k	٢g			
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-Brom	ofluorobenzene	0.90		1.000		89.7	39.1	146				
Sample ID:	2306177-002ams	Samp	Туре: МS	;	Tes	tCode: EF						
Client ID:	BH23-02 1'	Batc	h ID: 75 :	393	F	RunNo: 9 7						
Prep Date:	6/6/2023	Analysis I	Date: 6/	10/2023	S	SeqNo: 3	537107	Units: mg/k	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		0.88	0.024	0.9709	0	90.7	70	130				
Toluene		0.88	0.049	0.9709	0	90.9	70	130				
Ethylbenzene		0.89	0.049	0.9709	0	91.4	70	130				
Xylenes, Total		2.7	0.097	2.913	0	91.6	70	130				
Surr: 4-Brom	ofluorobenzene	0.92		0.9709		94.8	39.1	146				
Sample ID:	2306177-002amsd	Samp	Туре: МS	D	Tes	tCode: EF	PA Method	8021B: Volat	iles			
Client ID:	BH23-02 1'	Batc	h ID: 75 :	393	F	RunNo: 9 7	7323					
Prep Date:					c	537108	Units: mg/Kg					
T TOP Date.	6/6/2023	Analysis I	Date: 6/	10/2023	c c		57 100	e night	5			
Analyte	6/6/2023	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Analyte Benzene	6/6/2023	Result 0.88	PQL 0.024	SPK value 0.9737	SPK Ref Val 0	%REC 90.5	LowLimit 70	HighLimit 130	%RPD 0.137	20	Qual	
Analyte Benzene Toluene	6/6/2023	Result 0.88 0.89	PQL 0.024 0.049	SPK value 0.9737 0.9737	SPK Ref Val 0 0	%REC 90.5 91.8	LowLimit 70 70	HighLimit 130 130	%RPD 0.137 1.28	20 20	Qual	
Analyte Benzene Toluene Ethylbenzene	6/6/2023	Result 0.88 0.89 0.89	PQL 0.024 0.049 0.049	SPK value 0.9737 0.9737 0.9737	SPK Ref Val 0 0 0	%REC 90.5 91.8 91.1	LowLimit 70 70 70	HighLimit 130 130 130	%RPD 0.137 1.28 0.103	20 20 20	Qual	
Analyte Benzene Toluene Ethylbenzene Xylenes, Total	6/6/2023	Result 0.88 0.89	PQL 0.024 0.049	SPK value 0.9737 0.9737	SPK Ref Val 0 0	%REC 90.5 91.8	LowLimit 70 70	HighLimit 130 130	%RPD 0.137 1.28	20 20	Qual	

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 Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 12

WO#: 2306177

13-Jun-23

ANALY	ONMENT SIS ATORY	AL	TE	ll Environme L: 505-345-3 Website: www	49(Albuquero 975 FAX:	01 Hawk que. NM 505-34.	tins NE 87109 5-4107	Sar	nple Log-In Check Lis	st
Client Name:	Vertex Res Services, I		Work	Order Num	ber: 230	6177			RcptNo: 1	
Received By:	Joseph A	Iderette	6/6/202	3 8:35:00 A	м		J	f		
Completed By:	Tracy Cas		6/6/202	3 8:48:47 A	м					
Reviewed By:	JA 6	6-23								
Chain of Cust	odv									
1. Is Chain of Cu		lete?			Yes		Ν	io 🔽	Not Present	
2. How was the s					Cou	rier				
Log In 3. Was an attem	pt made to c	cool the samp	les?		Yes		N	o 🗌	NA 🗌	
4. Were all samp	les received	at a tempera	ture of >0° C	to 6.0°C	Yes		N	o 🗌		
5. Sample(s) in p	roper conta	iner(s)?			Yes		N	o 🗌		
6. Sufficient samp	ole volume f	or indicated te	est(s)?		Yes		N	• 🗆		
7. Are samples (e	except VOA	and ONG) pro	perly preserve	ed?	Yes		N	b		
8. Was preservati	ive added to	bottles?			Yes		N	o 🔽	NA 🗌	
9. Received at lea	ast 1 vial wit	h headspace	<1/4" for AQ \	/OA?	Yes		N	b		
10. Were any sam	ple containe	ers received b	roken?		Yes		N	o 🔽		
11. Does paperwor (Note discrepa			N		Yes		N	• 🗋	# of preserved bottles checked for pH: (<2 or >12 upless no	ted)
12. Are matrices co		-			Yes		N		Adjusted?	(icu)
13. Is it clear what			-		Yes		N	_	1	
14. Were all holdin (If no, notify cu	g times able	e to be met?			Yes			• 🗆	checked by: JN6/	6123
Special Handli		-								
15. Was client not	ified of all di	screpancies v	vith this order	?	Yes		N	•	NA 🗹	
Person	Notified:			Date	[attention and and and		
By Whor	m:	[Via:	eM	ail 🗌	Phone [] Fax	In Person	
Regardir	ng:			autentida en ant	PITA IN MUNICIPAL			600 / - ¹ 4 / = 108		
Client In:	structions:	Mailing addre	ss, phone nur	nber and Er	nail are m	nissing	on COC-	TMC 6	6/23	
16. Additional rem										
17. <u>Cooler Inform</u> Cooler No	nation Temp ºC	Condition	Seal Intact	Seal No	Seal D	ate	Ciana	1 By	1	
1	5.8	Good	Yes	Morty	Seal D	ale	Signe	гру		
	1						N=1 = 1 =		3	

Released to Imaging: 7/25/2023 10:16:07 AM

Page 120 of 132

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analvsis Recruest	(IneadAlinesend) mitotiloD listoT					dravy sical Duartex
HALL ENVIRONME ANALYSIS LABORA www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analvsis Renuest	EDB (Method 504.1) PPHs by 8310 or 8270SIMS RCRA 8 Metals CL)F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) 8270 (Semi-VOA)	5				DC: 4 roug = 100
4901 H	BTEX) MTBE / TMB's (8021) BH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's					Remarks:
sh 5 DW Later Transfer	NYON KIGYA DNO HEALNO.	100-	-002	100-	800-	US Pate Time Date Time Date Time
Rus Rus	Ves Ves	DEC				
Project #: Project #: Project #: Project #:	Project Manager: CLANC Sampler: NUDDEL On Ice: ETYes # of Coolers: Cooler Tempinauly cri): Container Preserve Type and # Type		ate Inci	dent - Pas	st Closure Rep	Received by:
E EOS / VCCERY B Address: OD EIIC		8423-02 0'	8423-02 1' BH23-02 2'	8423-04 0' 8423-03 0' 8423-04 0'	201	ir klein
Tain-of-Custo	Az Con Matrix	50.7			8	<u>a</u> <u>a</u>
Client: たのら Mailing Address:	Date Time	62	4:30 4:35 0:10	9:50	10:00	Date: Time: 5/87/3 (p. 15) 19/23 (9/00)



•

Released to Imaging: 7/25/2023 10:16:07 AM



June 19, 2023

Chance Dixon EOG 105 South Fourth Street Artesia, NM 88210 TEL: FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: Sawbuck

OrderNo.: 2306399

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/8/2023 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,

ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2306399

Date Reported: 6/19/2023

6/14/2023 12:15:00 AM 75478

6/14/2023 12:15:00 AM 75478

6/14/2023 12:15:00 AM 75478

CLIENT: EOG	Client Sample ID: BH23-03 1'									
Project: Sawbuck Lab ID: 2306399-001	Matrix: SOIL	Collection Date: 6/5/2023 10:00:00 AM Received Date: 6/8/2023 7:35:00 AM								
Analyses	Result				Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	SNS				
Chloride	ND	60	mg/Kg	20	6/14/2023 7:15:44 PM	75594				
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	DGH				
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/10/2023 12:37:14 AM	75498				
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/10/2023 12:37:14 AM	75498				
Surr: DNOP	98.4	69-147	%Rec	1	6/10/2023 12:37:14 AM	75498				
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	KMN				
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/14/2023 12:15:00 AM	75478				
Surr: BFB	95.4	15-244	%Rec	1	6/14/2023 12:15:00 AM	75478				
EPA METHOD 8021B: VOLATILES					Analyst	KMN				
Benzene	ND	0.025	mg/Kg	1	6/14/2023 12:15:00 AM	75478				
Toluene	ND	0.050	mg/Kg	1	6/14/2023 12:15:00 AM	75478				

ND

ND

90.8

0.050

0.10

39.1-146

mg/Kg

mg/Kg

%Rec

1

1

1

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

Qualifiers:

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 7

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2306399

Date Reported: 6/19/2023

6/14/2023 12:37:00 AM 75478

6/14/2023 12:37:00 AM 75478

CLIENT: EOG Project: Sawbuck Lab ID: 2306399-002	Matrix: SOIL	Client Sample ID: BH23-04 1' Collection Date: 6/5/2023 10:05:00 AM Matrix: SOIL Received Date: 6/8/2023 7:35:00 AM									
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analyst	: SNS					
Chloride	ND	61	mg/Kg	20	6/14/2023 7:52:47 PM	75594					
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	: DGH					
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/10/2023 12:48:09 AM	75498					
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/10/2023 12:48:09 AM	75498					
Surr: DNOP	85.9	69-147	%Rec	1	6/10/2023 12:48:09 AM	75498					
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	: KMN					
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/14/2023 12:37:00 AM	75478					
Surr: BFB	94.7	15-244	%Rec	1	6/14/2023 12:37:00 AM	75478					
EPA METHOD 8021B: VOLATILES					Analyst	: KMN					
Benzene	ND	0.024	mg/Kg	1	6/14/2023 12:37:00 AM	75478					
Toluene	ND	0.048	mg/Kg	1	6/14/2023 12:37:00 AM	75478					
Ethylbenzene	ND	0.048	mg/Kg	1	6/14/2023 12:37:00 AM	75478					

ND

92.0

0.097

39.1-146

mg/Kg

%Rec

1

1

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

Qualifiers:

Xylenes, Total

Surr: 4-Bromofluorobenzene

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 7

Surr: 4-Bromofluorobenzene

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2306399

Date Reported: 6/19/2023

6/14/2023 12:58:00 AM 75478

CLIENT: EOG		Cl	ient Sample II	D: BH	123-05 1'						
Project: Sawbuck		Collection Date: 6/5/2023 10:10:00 AM									
Lab ID: 2306399-003	Matrix: SOIL	Received Date: 6/8/2023 7:35:00 AM									
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analyst	: SNS					
Chloride	ND	60	mg/Kg	20	6/14/2023 8:05:08 PM	75594					
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	t: DGH					
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	6/10/2023 12:59:03 AM	75498					
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	6/10/2023 12:59:03 AM	75498					
Surr: DNOP	90.4	69-147	%Rec	1	6/10/2023 12:59:03 AM	75498					
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	t: KMN					
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/14/2023 12:58:00 AM	75478					
Surr: BFB	100	15-244	%Rec	1	6/14/2023 12:58:00 AM	75478					
EPA METHOD 8021B: VOLATILES					Analyst	: KMN					
Benzene	ND	0.024	mg/Kg	1	6/14/2023 12:58:00 AM	75478					
Toluene	ND	0.048	mg/Kg	1	6/14/2023 12:58:00 AM	75478					
Ethylbenzene	ND	0.048	mg/Kg	1	6/14/2023 12:58:00 AM	75478					
Xylenes, Total	ND	0.096	mg/Kg	1	6/14/2023 12:58:00 AM	75478					

93.7

39.1-146

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в

1

%Rec

- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р Reporting Limit
- RL

Page 3 of 7

EOG

Client:

	WO#:	2306399
all Environmental Analysis Laboratory, Inc.		19-Jun-23

Project:	Sawbuck										
Sample ID: ME	B-75594	SampType: MBLK			Tes	tCode: EF					
Client ID: PB	S	Batch	ID: 75	594	F	RunNo: 97	7431				
Prep Date: 6	/14/2023	Analysis D	ate: 6/	14/2023	Ş	SeqNo: 35	541454	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: LC	S-75594	SampT	ype: LC	S	Tes	tCode: EF	PA Method	300.0: Anions	5		
Client ID: LC	ss	Batch	ID: 75	594	F	RunNo: 97	7431				
Prep Date: 6	/14/2023	Analysis D	ate: 6/	14/2023	S	SeqNo: 35	541455	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.1	90	110			

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 7

.

	WO#:	2306399	
ironmental Analysis Laboratory, Inc.		19-Jun-23	

Client: EOG Project: Sawbuck	ζ.									
Sample ID: LCS-75498	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	n ID: 75 4	198	F	RunNo: 9 7	7343				
Prep Date: 6/9/2023	Analysis D	Date: 6/	9/2023	S	SeqNo: 3	536614	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	35	10	50.00	0	70.8	61.9	130			
Surr: DNOP	5.0		5.000		99.4	69	147			
Sample ID: MB-75498	SampT	уре: МЕ	BLK	Tes	tCode: Ef	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	n ID: 75 4	198	F	RunNo: 9 7	7343				
Prep Date: 6/9/2023	Analysis D	Date: 6/	9/2023	Ş	SeqNo: 3	536619	Units: mg/K	g		
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	9.7		10.00		97.3	69	147			

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 5 of 7

Released to Imaging: 7/25/2023 10:16:07 AM

EOG

Client:

	WO#:	2306399
aboratory, Inc.		19-Jun-23

Project: Sawbuc	k										
Sample ID: Ics-75478	SampType	e: LCS	S	Tes	stCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID): 754	78	F	RunNo: 9 7	7367					
Prep Date: 6/8/2023	Analysis Date	e: 6/1	2/2023	S	SeqNo: 3	538457	Units: mg/k	g			
Analyte	Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.4	70	130				
Surr: BFB	2200		1000		220	15	244				
Sample ID: mb-75478	SampType	e: MB	LK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	•		
Client ID: PBS	Batch ID): 754	78	F	RunNo: 9 7	7367					
Prep Date: 6/8/2023	Analysis Date	e: 6/1	2/2023	S	SeqNo: 3	538458	Units: mg/k	g			
Analyte	Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	1000		1000		105	15	244				

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 Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 7

Released to Imaging: 7/25/2023 10:16:07 AM

EOG

Sawbuck

Client:

Project:

Client ID:

Sample ID: Ics-75478

LCSS

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

Batch ID: 75478

Prep Date: 6/8/2023	Analysis Date: 6/12/2023 SeqNo: 3538472						Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.9	70	130			
Toluene	0.93	0.050	1.000	0	92.9	70	130			
Ethylbenzene	0.92	0.050	1.000	0	92.4	70	130			
Xylenes, Total	2.8	0.10	3.000	0	92.3	70	130			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.3	39.1	146			
Sample ID: mb-75478	Tes	tCode: EF	PA Method	8021B: Volati	les					
	e annp i	Гуре: МВ								
Client ID: PBS	•	h ID: 754			RunNo: 97					
	•	h ID: 75 4	78	F		7367	Units: mg/K			
Client ID: PBS	Batcl	h ID: 75 4	78	F	RunNo: 97	7367			RPDLimit	Qual
Client ID: PBS Prep Date: 6/8/2023	Batcl Analysis [h ID: 75 4 Date: 6 /*	178 12/2023	F	RunNo: 97 SeqNo: 35	7367 538473	Units: mg/K	g	RPDLimit	Qual
Client ID: PBS Prep Date: 6/8/2023 Analyte	Batcl Analysis I Result	h ID: 75 4 Date: 6/ * PQL	178 12/2023	F	RunNo: 97 SeqNo: 35	7367 538473	Units: mg/K	g	RPDLimit	Qual
Client ID: PBS Prep Date: 6/8/2023 Analyte Benzene	Batcl Analysis I Result ND	h ID: 75 4 Date: 6/ * PQL 0.025	178 12/2023	F	RunNo: 97 SeqNo: 35	7367 538473	Units: mg/K	g	RPDLimit	Qual
Client ID: PBS Prep Date: 6/8/2023 Analyte Benzene Toluene	Batcl Analysis I Result ND ND	h ID: 754 Date: 6 /* PQL 0.025 0.050	178 12/2023	F	RunNo: 97 SeqNo: 35	7367 538473	Units: mg/K	g	RPDLimit	Qual

TestCode: EPA Method 8021B: Volatiles

RunNo: 97367

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- в Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

- RL Reporting Limit

Page 7 of 7

WO#: 2306399

19-Jun-23

HALL ENVIRONMENT ANALYSIS LABORATORY	AL	TEL: 505-345-3	ntal Analysis Labora 4901 Hawkin Albuquerque, NM 87 975 FAX: 505-345-4 v.hallenvironmental	s NE 7109 San 4107	Sample Log-In Check List					
Client Name: EOG		Work Order Num	ber: 2306399		RcptNo: 1					
Received By: Tracy Ca	sarrubias	6/8/2023 7:35:00 A	м							
Completed By: Tracy Ca	sarrubias	6/8/2023 8:50:48 A	М							
Reviewed By: JH 6	18/23									
Chain of Custody										
1. Is Chain of Custody com	plete?		Yes 🗌	No 🗹	Not Present					
2. How was the sample deli	vered?		Courier							
Log In 3. Was an attempt made to	cool the samples	\$?	Yes 🗹	No 🗌	NA 🗀					
4. Were all samples received	d at a temperatu	re of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗔					
5. Sample(s) in proper conta	ainer(s)?		Yes 🗹	No 🗔						
6. Sufficient sample volume	for indicated test	(s)?	Yes 🔽	No 🗌						
7. Are samples (except VOA	and ONG) prop	erly preserved?	Yes 🗹	No 🗌						
8. Was preservative added to	o bottles?		Yes	No 🗹	NA 🗌	1				
9. Received at least 1 vial wi	ith headspace <1	/4" for AQ VOA?	Yes	No 🗌	NA 🗹	160 m				
10. Were any sample contain	•		Yes	No 🔽		Pullic				
11. Does paperwork match bo			Yes 🗹	No 🗌	# of preserved bottles checked for pH:	106/02/7				
(Note discrepancies on ch					<pre></pre>	12 unless noted)				
12. Are matrices correctly iden		of Custody?	Yes 🗹		Adjusied?					
13. Is it clear what analyses w14. Were all holding times abl	·		Yes 🗹 Yes 🗹	No 🗌 No 🗍	Checked by:					
(If no, notify customer for										
Special Handling (if ap	plicable)				(
15. Was client notified of all c	discrepancies wit	h this order?	Yes 🗌	No 🗌						
Person Notified:	1	Date	[
By Whom:		Via:	eMail P	hone 🗌 Fax	In Person					
Regarding:					and the second second second second					
Client Instructions:	Mailing address	s, phone number, and Er	nail are missing on	COC- T MC 6	6/8/23					
16. Additional remarks:										
17. <u>Cooler Information</u> Cooler No Temp °C		Seal Intact Seal No	Seal Date	Signed By						
1 3.3	Good Y	'es Yogi								

Page 130 of 132

-	
-	
-	
- N	
0	
-	
-	
-	
N.	
0	
-	
-	
\mathcal{O}	
- Ci	
1	
0	
0	
1	
9	
5	
1	
-	
1	
1/1	
: 7/1	
0: 7/1	
D: 7/1	
D: 7/1	
CD: 7/1	
CD: 7/1	
CD: 7/1	
CD: 7/1	
, OCD: 7/1	
v OCD: 7/1	
, OCD: 7/1	
1 by OCD: 7/1	
1 by OCD: 7/1	
by OCD: 7/1	
d by OCD: 7/1	
ved by OCD: 7/1	
d by OCD: 7/1	
ved by OCD: 7/1	
eived by OCD: 7/1	
ceived by OCD: 7/1.	
ved by OCD: 7/1	
eceived by OCD: 7/1.	
ceived by OCD: 7/1.	

	coro
	5
	0
	0
	Sec
	~
	Ľ
7	-
1	>
9	po
	õ
5	stc
1	
27	7
	r 1
1	Ĩ
	4
-	0
	T
	2
-	-
۲.	<u>a</u>
-	-
	$\overline{\mathbf{O}}$
2	
č	
2	
2	

ceived by OCD: 7/19/2023 11:04:19 AM			Page 131 of 132
Chain-of-Custody Record	Turn-Around Time:		HALL ENVIRONMENTAL
Client: CO.A	A-Standard Kush 5 DAM	ANALY	ANALYSIS LABORATORY
Norter		www.haller	www.hallenvironmental.com
Mailing Address: On 5.40	Sawbuck	4901 Hawkins NE - A	Albuquerque, NM 87109
		Tel. 505-345-3975	Fax 505-345-4107
Phone #:	22E-00123 03		Analysis Request
email or Fax#:	na	(0	
age:	Prave Diver	IIWS SBIS MRR	
Standard Level 4 (Full Validation)	4	S02	
	Hunter M	(1, D) (1, 4, 1) (1, 808	(\
		als (0 0 (0 0 (0 0	∀ 0/
	Cooler Temp(inetueline cF): 3.3 - 0 = 3.2	5D((sticid 831 831 Met	(AC
	•	A 8 8016 8016 8016	əS) DV)
Date Time Matrix Sample Name	Container Preservative HEAL No. Type and # Type 7306399	ВТЕ) 8081 FDB FDB FDB	ClyF, ClyF, ClyF,
6/5/33 20:00 50:1 13H23-03 21	Ice	×	
1 50:07			
V 20:24 & BH33-BS-2'	1 1 003	X × ×	
Date: Time: Relinquished by: 6/5/33 13:90 Runt Aler	NULLINUL VIA: Pate T	<u>u</u>	ail to
VI105 19UD AVANAAAA	iarcourse Date	7:55 analytical@vertex	×,cq

.

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. Released to Imaging: 7/25/2023 10:16:07 AM

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

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	242087
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
amaxwell	None	7/25/2023

Page 132 of 132

Action 242087

.