

EOG Resources, Inc. Artesia Division Office 104 S. 4th Street Artesia, N. M. 88210

March 29, 2022

NMOCD 1220 South St. Francis Drive Santa Fe, NM 87505

Re:

Dayton Townsite Water System (Williams Water Line)

25-18S-26E

Eddy County, New Mexico

2RP-3840 nAB1623631164

Mr. Billings,

EOG Resources, Inc. is submitting the enclosed Closure Report for the above referenced site. The plan is being submitted accompanying the C-141 Closure on the most recent form.

The original Closure Report was submitted April 3, 2017, EOG Resources, Inc. hereby again submits the Closure Report for above referenced site.

Included with this Closure Report request is the Remediation Plan originally submitted for the site in 2016, and the approval email from NMOCD for the Remediation Plan.

If you have any questions, feel free to call me at (575) 748-1471.

Respectfully,

Chase Settle

Rep Safety & Environmental Sr.

EOG Resources, Inc.

Chase Settle

Dayton Townsite Water System (Williams) Closure Report 2RP-3840 nAB1623631164



March 29, 2022

EOG Resources, Inc.

Dayton Townsite Water System (Williams Water Line)

Closure Report

25-18S-26E

Eddy County, New Mexico

March 29, 2022

2RP-3840

nAB1623631164

Dayton Townsite Water System (Williams)
Closure Report



2RP-3840 nAB1623631164 March 29, 2022

310200	Table of Contents	20
1.	Location	1
II.	Background	1
III.	Scope of Work Completed	1
IV.	Closure Request	1

Appendices:

Appendix A: C-141 (Updated Form)

Appendix B: Remediation Plan

Appendix C: NMOCD Approval Email

Appendix D: Original C-141 Initial

Appendix E: Original C-141 Final

Photos

Dayton Townsite Water System (Williams) Closure Report 2RP-3840



March 29, 2022

nAB1623631164 I. Location

The release is located approximately 8 miles south of Artesia, NM, on Dayton Road, and approximately 3.2 miles east of Highway 285.

II. Background

On August 19, 2016, EOG Y Resources, Inc (EOG) submitted to the NMOCD District II office a Form C-141 Initial for the release of an unknown volume of produced water with 1 barrel recovered. The affected area was approximately 0.35 acre immediately adjacent to the release point of the produced water transfer line.

A Remediation Plan (Appendix B) was submitted to NMOCD on December 9, 2016, which outlined the proposed remediation method for the site. This consisted of excavating four (4) feet of impacted soil, hauling the excavated soil to a NMOCD approved disposal facility, lining the bottom of the excavation with a 20 ml synthetic liner, and then backfilling the site with caliche followed by topsoil for the last two (2) feet.

NMOCD approved the Remediation Plan without conditions of approval, but a preferred request for a more robust liner or doubling of the proposed 20 ml synthetic liner. EOG agreed to meet the request and replied on December 19, 2016 (Appendix C).

III. Scope of Work Completed

After approval of the Remediation Plan by EOG, a bid process was held to determine the contractor that would be completing the remediation of the site. On January 11, 2017, the contractor was awarded the bid, and the remediation work began on January 24, 2017.

Excavation and disposal activities for the release site were conducted from January 24 through February 23, 2017. This consisted of excavating four (4) feet of impacted soils and hauling the impacted material to R360 Environmental Solutions for disposal. Once the site had been excavated to four (4) feet below grade surface (bgs), two 20 ml synthetic liners were installed in the bottom of the excavation. The site was then backfilled with two (2) feet of caliche, followed by two (2) feet of topsoil.

On August 10, 2017, the site was seeded to coincide with the monsoonal rainfall season which historically falls in the July to September timeframe for Southeast New Mexico.

IV. Closure Request

This release, remediation work, and original C-141 Final submission occurred prior to the passage of the current Spill Rule (NMAC 19.15.29), therefore the requirements for a scaled site map, confirmation (bottom of excavation and sidewalls) sampling, and excavation photographs cannot be accommodated as they were not required or requested when the work plan was approved by NMOCD in December 2016.

Based on the remediation work approval and completion, EOG Resources, Inc. believes enough evidence is provided to substantiate that remedial activities were completed correctly for the time period, and requests Closure of nAB1623631164 (2RP-3840), the current C-141 Closure Form is included with this Closure Report as Appendix A.

energy opportunity growth

Dayton Townsite Water System (Williams) Closure Report 2RP-3840 nAB1623631164



March 29, 2022

Appendix AC-141 (Updated Form)

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 2RPP-3840 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAB1623631164
District RP	2RP-3840
Facility ID	
Application ID	

Release Notification

	Responsible Party								
Responsible	Party EOG	Resources, II	nc.		OGRID 73	77			
Contact Nam					Contact Telephone 575-748-1471				
	Contact email Chase_Settle@eogresources.com					Incident # (assigned by OCD) nAB1623631164			
	Contact mailing address 104 S. 4th Street, Artesia, NM 8								
7			Location		900	ource			
Latitude 32.	72062				Longitude _	104.34295			
			(NAD 83 in dec	cimal deg	grees to 5 decim	al places)			
Site Name Dayton Townsite Water System (Williams Water Line)					Site Type P	roduced Water Transfer Line			
Date Release Discovered 08/09/2016					API# (if appl	licable)			
Thirt is a Continue Township Dance					Coun				
Unit Letter Section Township Range						<u> </u>			
	25 18S 26E Edd								
Surface Owne	Surface Owner: State Federal Tribal Private (Name:					anning and Sons			
	Nature and Volu								
	Materia	ıl(s) Released (Select al	I that apply and attach	calculat	ions or specific	justification for the volumes provided below)			
Crude Oi	1	Volume Release				Volume Recovered (bbls)			
✓ Produced	Water	Volume Release	ed (bbls) Unknov	wn		Volume Recovered (bbls) 1			
		Is the concentrate produced water	tion of dissolved c >10,000 mg/l?	chloride	le in the Yes No				
Condensa	ate	Volume Release			Volume Recovered (bbls)				
☐ Natural C	as	Volume Release	ed (Mcf)			Volume Recovered (Mcf)			
Other (de	Other (describe) Volume/Weight Released (provide units					Volume/Weight Recovered (provide units)			
Cause of Rel	lease Pleas	se refer to the	original C-14	1 for o	details of 2	2RP-3840.			

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	nAB1623631164
District RP	2RP-3840
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respons	sible party consider this a major release?				
19.15.29.7(A) NMAC?						
☐ Yes ☑ No						
	,					
	i i de cope per la company	0 What and have between (whom a small stale)				
If YES, was immediate no	otice given to the OCD? By whom? To who	om? When and by what means (phone, email, etc)?				
a a	Initial Re	sponse				
The responsible	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury				
☐ The source of the rele	ease has been stopped.					
	as been secured to protect human health and t	he environment.				
· · · · · · · · · · · · · · · · · · ·	BAN BANDARA MARANA	kes, absorbent pads, or other containment devices.				
✓ All free liquids and recoverable materials have been removed and managed appropriately.						
If all the actions described above have <u>not</u> been undertaken, explain why:						
		9				
has begun, please attach	a narrative of actions to date. If remedial e	mediation immediately after discovery of a release. If remediation ifforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.				
I hereby certify that the info	ormation given above is true and complete to the b	est of my knowledge and understand that pursuant to OCD rules and				
nublic health or the environ	ment. The acceptance of a C-141 report by the O	ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have				
failed to adequately investig addition, OCD acceptance of	gate and remediate contamination that pose a threat of a C-141 report does not relieve the operator of a	at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws				
and/or regulations.		- 10 m				
Printed Name: Chase	Settle	Title: Rep Safety & Environmental Sr				
Signature: Chase	Settle	Date: 03/29/2022				
email: Chase_Settle	@eogresources.com	Telephone: 575-748-1471				
OCD Only						
Received by:		Date:				

Form C-141 Page 6

State of New Mexico Oil Conservation Division

Incident ID	nAB1623631164
District RP	2RP-3840
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.								
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC							
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office							
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)							
Description of remediation activities								
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially inditions that existed prior to the release or their final land use in							
Printed Name: Chase Settle Title: Rep Safety & Environmental Sr								
Signature: Chase Settle Date: 03/29/2022								
email: Chase_Settle@eogresources.com	Telephone: 575-748-1471							
OCD Only								
Received by:	Date:							
remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and/o	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.							
Closure Approved by: Lattany Hall	Date:11/02/2022							
Printed Name: Brittany Hall	Title: Environmental Specialist							

Dayton Townsite Water System (Williams) Closure Report 2RP-3840 nAB1623631164



March 29, 2022

Appendix BRemediation Plan

energy opportunity growth



EOG Resources, Inc. Artesia Division Office 105 S. 4th Street Artesia, N. M. 88210

December 9, 2016

Mr. Mike Bratcher NMOCD District II 811 South First Artesia, NM 88210

RE:

Dayton Townsite Water System (Williams Water Line)

Section 25, T18S-R26E Eddy County, New Mexico

Mr. Bratcher,

EOG Y Resources, Inc. would like to submit the following plan of work to you regarding the release that was discovered at the above mentioned facility on 8/9/2016 (2RP-3840). The release was unknown amounts of crude oil and produced water with 1 barrel of produced water recovered.

With NMOCD approval of this work plan, EOG Y will hold a bid meeting allowing several contractors the opportunity to submit bids on this remediation project. Bids that are received will be forwarded to EOG Y Management for review. Once EOG Y Management reviews the bids and gives approval, the remediation project will be awarded to a contractor for work to commence.

If you have any questions or concerns, I can be reached at (575) 748-4111 or by email at amber_griffin@eogresources.com.

Thank You,

Amber Griffin

Environmental Representative

EOG Y Resources, Inc.

EOG Y Resources, Inc. - Artesia Division Office

Dayton Townsite Water System (Williams Water Line) Work Plan

Section 25, T18S-R26E

Eddy County, New Mexico

December 9, 2016

I. Location

The release is located approximately 8 miles south of Artesia, NM on Highway 285 and approximately 3.2 miles east of Highway 285 on Dayton Road.

II. Background

On August 9, 2016, a release was discovered along a pipeline right-of-way. The release was unknown amounts of crude oil and produced water, with 1 barrel of produced recovered. An initial Form C-141 was submitted, via e-mail, to the NMOCD District II on August 19, 2016.

On August 16, 2016 EOG Y personnel returned to the site and collected soil samples from the release area with a backhoe, which was split into four sections. The soil samples were sent to an approved NMOCD laboratory and tested for BTEX 8021B, TPH 8015M and Chlorides 300.0. EOG Y received the analytical results on August 24 and 29, 2016 (Reports 1608B49 and 1608C32 attached to this work plan). Analytical results showed that all four sections had non-detectable levels of TPH and BTEX and were below NMOCD RRAL's. For chlorides, Sections 1 and 2 had delineated to acceptable levels while Sections 3 and 4 still showed elevated levels.

On September 13, 2016 EOG Y personnel returned to the site and collected additional soil samples from Sections 3 and 4 of the release area with a trackhoe. The soil samples were sent to an approved NMOCD laboratory and tested for Chlorides 300.0. EOG Y received the analytical results on September 27, 2016 (Report 1609856 attached to this work plan). Analytical results showed that chlorides were still at elevated levels for these two sections.

On September 13, 2016 horizontal soil samples were also taken to show that EOG Y had found the horizontal extent of the release area. EOG Y received the analytical results on September 22, 2016 (Report 1609852 attached to this work plan).

On November 15, 2016 EOG Y personnel returned to the site and collected additional soil samples with a core rig from an area between Sections 3 and 4 of the release area. The soil samples were sent to an approved NMOCD laboratory and tested for Chlorides 300.0. EOG Y received the analytical results on November 30, 2016 (Report 1611A17 attached to this work plan). Analytical results showed that chlorides had delineated to acceptable levels.

III. Surface and Ground Water

Area surface geology is Cenozoic. Groundwater records listed on NMOSE shows depth to groundwater to be approximately 35 feet making the site ranking for this site a twenty (20). It should be noted that while we had the core rig on location obtaining samples, groundwater was not encountered at 35' or 40' below the surface level, so depth to groundwater is actually deeper than 40'. Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is twenty (20) based on the as following:

Depth to ground water <50'
Wellhead Protection Area >1000'
Distance to surface water body >1000'

IV. Soils

The area consists of native soil, interspersed with clay seams providing a low permeability barrier to retard vertical percolation of contaminants into the subsurface.

V. Scope of Work

Based on analytical results which show complete vertical and horizontal delineation, EOG Y proposes to excavate all sections to a depth of 4' below the surface level. A 20 mil liner will be installed in the bottom of the excavation. The excavation will be backfilled with 2' of caliche and 2' of top soil. The disturbed area will then be reseeded.

All contaminated soils will be hauled to a NMOCD approved facility.

A Final C-141 will be submitted to NMOCD once all work has been completed.

VER
Line)
Water
(Williams
System
Water
Townsite 1
Dayton

Release Area											
Release Area 81/62016 1608C32 GrabBsackhoe 2.5 BSL ND ND ND Release Area 81/62016 1608C32 GrabBsackhoe 67 BSL -		Sample Area	Sample Date	Analytical Report	Sample Type	Depth	BTEX		DRO	TOTAL	Chloride
Release Area 81/62016 1608623 Grab/Backhoe 4° ESL ND ND ND Release Area 81/62016 1608649 Grab/Backhoe 6° ESL -<	1-25	Release Area	8/16/2016	1608C32	Grab/Backhoe	2.5' BSL	ND	Ð	Q.	ND	2,600
Release Area 8116,2016 1608849 Grab/Backhoe 6 BSL	1.4	Release Area	8/16/2016	1608C32	Grab/Backhoe	4'BSL	ND	N	Q	ND	420
Release Area 816,2016 1608849 Grab/Backhoe 176,201 1		Release Area	8/16/2016	1608B49	Grab/Backhoe	6' BSL	•				180
Release Area \$1608149 Grab/Backhoe 17 BSL N N N Release Area \$1602016 16080222 Grab/Backhoe 2.5 BSL ND ND ND Release Area \$1762016 16080222 Grab/Backhoe 6 BSL - - - - Release Area \$1762016 1608849 Grab/Backhoe 17 BSL -<		Release Area	8/16/2016	1608B49	Grab/Backhoe	8' BSL	•	•		•	130
Release Area 81962016 1608C32 Grab/Backhoe 4 BSL ND ND ND Release Area 81962016 1608C32 Grab/Backhoe 4 BSL N <td>1-10.</td> <td>Release Area</td> <td>8/16/2016</td> <td>1608B49</td> <td>Grab/Backhoe</td> <td>10' BSL</td> <td>•</td> <td></td> <td>•</td> <td></td> <td>170</td>	1-10.	Release Area	8/16/2016	1608B49	Grab/Backhoe	10' BSL	•		•		170
Release Area 816/2016 1608249 Grab/Backhoe 6 BSL - - - Release Area 876/2016 1608249 Grab/Backhoe 6 BSL -	2-25	Release Area	8/16/2016	1608C32	Grab/Backhoe	2.5' BSL	QN	QV	ND	N D	18,000
Release Area 8716/2016 1608849 Grab/Backhoe 67 BSL	2-4	Release Area	8/16/2016	1608C32	Grab/Backhoe	4'BSL	QN	N	Q.	ND	14,000
Release Area 8/16/2016 1608849 Grab/Backhoe 17 BSL	2-6	Release Area	8/16/2016	1608B49	Grab/Backhoe	6' BSL	1				14,000
Release Area 81/6/2016 1608849 Grab/Backhoe 17 BSL	2-8	Release Area	8/16/2016	1608B49	Grab/Backhoe	8. BSL	•			,	17,000
Release Area 81/6/2016 1608849 Grab/Backhoe 17 BSL	2-10	Release Area	8/16/2016	1608B49	Grab/Backhoe	10' BSL	٠	•			9,000
Release Area 81/6/2016 1608849 Grab/Backhoe 4 BSL -	2-12	Release Area	8/16/2016	1608B49	Grab/Backhoe	12' BSL				ı	2,100
Release Area 8/16/2016 16086.32 Grab/Backhoe 4° BSL ND ND ND Release Area 8/16/2016 1608849 Grab/Backhoe 10° BSL - - - Release Area 8/16/2016 1608849 Grab/Backhoe 10° BSL - - - - Release Area 8/16/2016 1608849 Grab/Backhoe 10° BSL - - - - Release Area 8/16/2016 1608849 Grab/Backhoe 17° BSL - <td>2-14'</td> <td>Release Area</td> <td>8/16/2016</td> <td>1608B49</td> <td>Grab/Backhoe</td> <td>14' BSL</td> <td></td> <td></td> <td></td> <td></td> <td>310</td>	2-14'	Release Area	8/16/2016	1608B49	Grab/Backhoe	14' BSL					310
Release Area 8/16/2016 1608G32 Grab/Backhoe 6'BSL ND ND ND Release Area 8/16/2016 1608B49 Grab/Backhoe 10'BSL - - - Release Area 8/16/2016 1608B49 Grab/Backhoe 12'BSL - - - - Release Area 8/16/2016 1608B49 Grab/Trackhoe 16'BSL -	3-4"	Release Area	8/16/2016	1608C32	Grab/Backhoe	4' BSL	QN	N	N	ND	18,000
Release Area 81/6/2016 1608B49 Grab/Backhoe 8° BSL -	3-6	Release Area	8/16/2016	1608C32	Grab/Backhoe	6' BSL	QN	ND	QN	ND	16,000
Release Area 81/16/2016 1608B49 Grab/Backhoe 17 BSL - - - Release Area 81/16/2016 1608B49 Grab/Backhoe 17 BSL -		Release Area	8/16/2016	1608B49	Grab/Backhoe	8' BSL	•	•	,		20,000
Release Area 8/16/2016 1608849 Grab/Backhoe 17' BSL - - - Release Area 8/16/2016 1608856 Grab/Tackhoe 16' BSL -	3-10	Release Area	8/16/2016	1608B49	Grab/Backhoe	10' BSL	1				14,000
Release Area 8/16/2016 1608B49 Grab/Backhoe 14° BSL - <td>3-12</td> <td>Release Area</td> <td>8/16/2016</td> <td>1608B49</td> <td>Grab/Backhoe</td> <td>12' BSL</td> <td></td> <td></td> <td></td> <td>•</td> <td>15,000</td>	3-12	Release Area	8/16/2016	1608B49	Grab/Backhoe	12' BSL				•	15,000
Release Area 9/13/2016 1608856 Grab/Trackhoe 16 BSL - <td>3-14</td> <td>Release Area</td> <td>8/16/2016</td> <td>1608B49</td> <td>Grab/Backhoe</td> <td>14" BSL</td> <td>•</td> <td></td> <td></td> <td></td> <td>16,000</td>	3-14	Release Area	8/16/2016	1608B49	Grab/Backhoe	14" BSL	•				16,000
Release Area 9/13/2016 1609856 Grab/Trackhoe 20° BSL - <td>3-16</td> <td>Release Area</td> <td>9/13/2016</td> <td>1609856</td> <td>Grab/Trackhoe</td> <td>16' BSL</td> <td>•</td> <td></td> <td></td> <td></td> <td>22,000</td>	3-16	Release Area	9/13/2016	1609856	Grab/Trackhoe	16' BSL	•				22,000
Release Area 9/13/2016 169886 Grab/Trackhoe 20' BSL - <td>3-18</td> <td>Release Area</td> <td>9/13/2016</td> <td>1609856</td> <td>Grab/Trackhoe</td> <td>18' BSL</td> <td>·</td> <td></td> <td></td> <td></td> <td>24,000</td>	3-18	Release Area	9/13/2016	1609856	Grab/Trackhoe	18' BSL	·				24,000
Release Area 9/13/2016 1609856 Grab/Flackhoe 22' BSL - <td>3-20</td> <td>Release Area</td> <td>9/13/2016</td> <td>1609856</td> <td>Grab/Trackhoe</td> <td>20' BSL</td> <td></td> <td>•</td> <td></td> <td>,</td> <td>17,000</td>	3-20	Release Area	9/13/2016	1609856	Grab/Trackhoe	20' BSL		•		,	17,000
Release Area 8/16/2016 1608C32 Grab/Backhoe 2'BSL ND ND ND ND Release Area 8/16/2016 1608B49 Grab/Backhoe 6'BSL -	3-22	Release Area	9/13/2016	1609856	Grab/Trackhoe	22' BSL		-		,	5,200
Release Area 8/16/2016 1608B49 Grab/Backhoe 4° BSL ND ND ND ND Release Area 8/16/2016 1608B49 Grab/Backhoe 6° BSL - <td< td=""><td>4-2</td><td>Release Area</td><td>8/16/2016</td><td>1608C32</td><td>Grab/Backhoe</td><td>2' BSL</td><td>QN</td><td>ND</td><td>QN</td><td>Q</td><td>17,000</td></td<>	4-2	Release Area	8/16/2016	1608C32	Grab/Backhoe	2' BSL	QN	ND	QN	Q	17,000
Release Area 8/16/2016 1608B49 Grab/Backhoe 6'BSL -	4-4	Release Area	8/16/2016	1608C32	Grab/Backhoe	4' BSL	ND	Q	Ð	Q	17,000
Release Area 8/16/2016 1608B49 Grab/Backhoe 8'BSL -	4-6	Release Area	8/16/2016	1608B49	Grab/Backhoe	6. BSL	,				21,000
Release Area 8/16/2016 1608B49 Grab/Backhoe 10°BSL -	4-8	Release Area	8/16/2016	1608B49	Grab/Backhoe	8' BSL	•				21,000
Release Area 8/16/2016 1608B49 Grab/Backhoe 12*BSL -	4-10	Release Area	8/16/2016	1608B49	Grab/Backhoe	10' BSL					21,000
Release Area 8/16/2016 1608B49 Grab/Backhoe 14°BSL -	4-12	Release Area	8/16/2016	1608B49	Grab/Backhoe	12' BSL	,	•	,	,	22,000
Release Area 9/13/2016 1609856 Grab/Trackhoe 16**BSL - <td>4-14</td> <td>Release Area</td> <td>8/16/2016</td> <td>1608B49</td> <td>Grab/Backhoe</td> <td>14' BSL</td> <td></td> <td>•</td> <td></td> <td>1</td> <td>20,000</td>	4-14	Release Area	8/16/2016	1608B49	Grab/Backhoe	14' BSL		•		1	20,000
Release Area 9/13/2016 1609856 Grab/Trackhoe 18*BSL - <td>4-16</td> <td>Release Area</td> <td>9/13/2016</td> <td>1609856</td> <td>Grab/Trackhoe</td> <td>16' BSL</td> <td></td> <td>•</td> <td>•</td> <td>•</td> <td>720</td>	4-16	Release Area	9/13/2016	1609856	Grab/Trackhoe	16' BSL		•	•	•	720
Release Area 9/13/2016 1609856 Grab/Trackhoe 20°BSL - <td>4-18</td> <td>Release Area</td> <td>9/13/2016</td> <td>1609856</td> <td>Grab/Trackhoe</td> <td>18' BSL</td> <td></td> <td></td> <td>,</td> <td></td> <td>14,000</td>	4-18	Release Area	9/13/2016	1609856	Grab/Trackhoe	18' BSL			,		14,000
Release Area 11/15/2016 16/11A17 Grab/Core Rig 25'BSL - </td <td>4-20</td> <td>Release Area</td> <td>9/13/2016</td> <td>1609856</td> <td>Grab/Trackhoe</td> <td>20' BSL</td> <td></td> <td>•</td> <td></td> <td></td> <td>14,000</td>	4-20	Release Area	9/13/2016	1609856	Grab/Trackhoe	20' BSL		•			14,000
Release Area 11/15/2016 16/11A17 Grab/Core Rig 30°BSL - </td <td>CR - 25*</td> <td>Release Area</td> <td>11/15/2016</td> <td>1611A17</td> <td>Grab/Core Rig</td> <td>25' BSL</td> <td></td> <td></td> <td></td> <td></td> <td>190</td>	CR - 25*	Release Area	11/15/2016	1611A17	Grab/Core Rig	25' BSL					190
Release Area 11/15/2016 16/11A17 Grab/Core Rig 35'BSL - </td <td>CR-30'</td> <td>Release Area</td> <td>11/15/2016</td> <td>1611A17</td> <td>Grab/Core Rig</td> <td>30' BSL</td> <td>•</td> <td></td> <td></td> <td></td> <td>190</td>	CR-30'	Release Area	11/15/2016	1611A17	Grab/Core Rig	30' BSL	•				190
Release Area 11/15/2016 1611A17 Grab/Core Rig 40' BSL	CR-35	Release Area	11/15/2016	1611A17	Grab/Core Rig	35' BSL	•				260
	CR - 40*	Release Area	11/15/2016	1611A17	Grab/Core Rig	40° BSL	•	1			160

Site Ranking is TWENTY (20). Depth to Ground Water <50' (approx. 35', per NMOSE 24-18S-26E). All results are ppm. Recovered: 1 B/PW. Release Date: 8/9/2016. 2RP-3840

Dayton Townsite Water System (Williams Water Line)

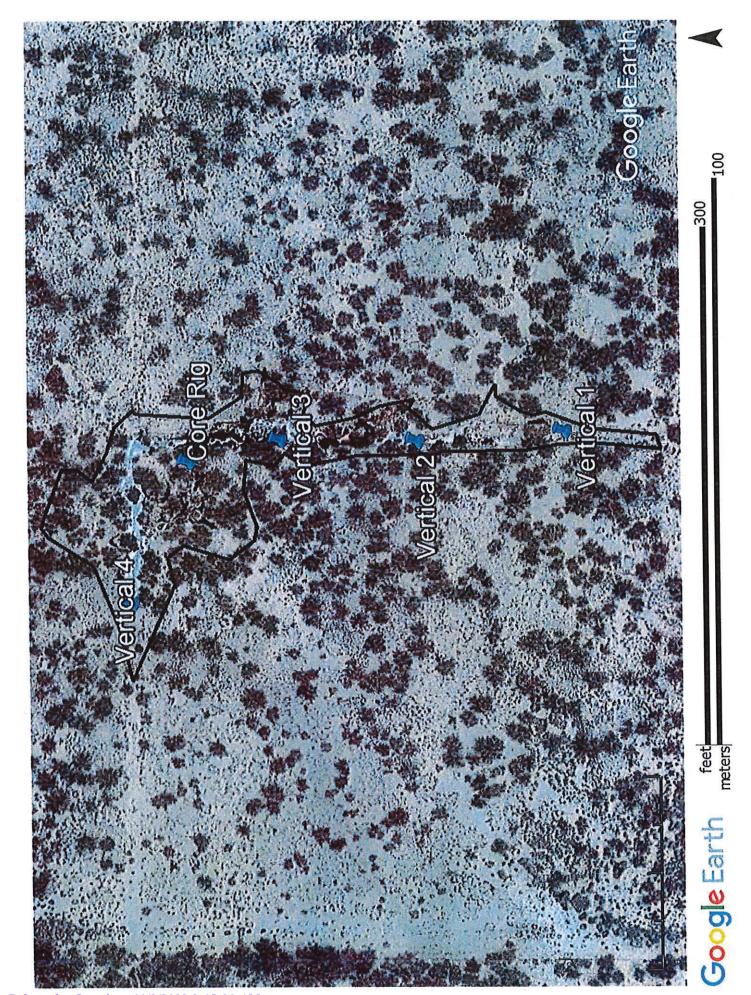
HORIZONTAL

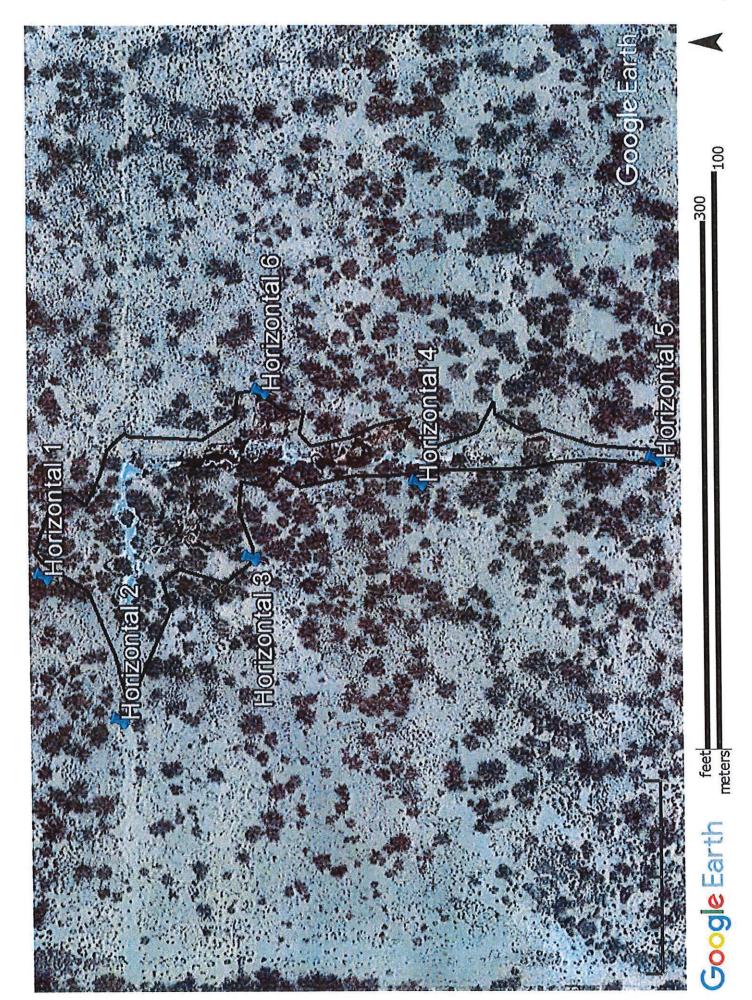
	Sample Area	Sample Date	Sample Date Analytical Report	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	BTEX GRO DRO TOTAL Chloride
Att Laboration 1	Outcide Peleace Area	9/13/2016	1609852	Grab/Backhoe	2-3'BSL					60
HOTIZORICAL #1	Outside Release Area	9/13/2016	1609852	Grab/Backhoe	2-3'BSL			•		ND
HOTIZOTICAI #2	Outside Release Area	9/13/2016	1609852	Grab/Backhoe	2-3'BSL					ND
HOTIZOTICAL #3	Outside Release Area	9/13/2016	1609852	Grab/Backhoe	2-3'BSL	•	•	•	•	32
Horizontal #5	Outside Release Area	9/13/2016	1609852	Grab/Backhoe	2-3'BSL	,		,	•	32
Horizontal #6	Outside Release Area	9/13/2016	1609852	Grab/Backhoe	2-3'BSL	,		,		140

Site Ranking is TWENTY (20). Depth to Ground Water <50' (approx. 35', per NMOSE 24-18S-26E).

All results are ppm.

Released: Unknown B/PW; Recovered: 1 B/PW. Release Date: 8/9/2016. 2RP-3840







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

August 24, 2016

Amber Griffin
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111

FAX

RE: Dayton Townsite Water System (Williams Water Line)

OrderNo.: 1608B49

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 17 sample(s) on 8/18/2016 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 qualifers 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 #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 1608B49

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/24/2016

	ates Petroleum Corpo		ıms Wate	Li	ab Order: 1608	B49
Lab ID: Client Sample ID:	1608B49-001 1-6		And the state of t	Collection Date:	8/16/2016 8:24:00 A	.M
Analyses	111	Result	PQL Qual		DF Date Analyzed	Batch ID
EPA METHOD 300	.0: ANIONS		127120			alyst: MRA
Chloride		180	30	mg/Kg	20 8/22/2016 12:20:1	4 PM 27113
Lab ID:	1608B49-002			Collection Date:	: 8/16/2016 8:29:00 A	M
Client Sample ID:	1-8			Matrix	: SOIL	
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS					alyst: MRA
Chloride		130	30	mg/Kg	20 8/22/2016 12:57:2	9 PM 27113
Lab ID:	1608B49-003			Collection Date	: 8/16/2016 8:33:00 A	M
Client Sample ID:	1-10			Matrix	: SOIL	
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS	39			Ar	nalyst: MRA
Chloride		170	30	mg/Kg	20 8/22/2016 1:09:53	3 PM 27113
Lab ID:	1608B49-004			Collection Date	: 8/16/2016 9:16:00 A	AM
Client Sample ID:	2-6			Matrix	: SOIL	
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS				Ar	nalyst: MRA
Chloride		14000	750	mg/Kg	500 8/23/2016 9:40:2	2 PM 27113
Lab ID:	1608B49-005			Collection Date	e: 8/16/2016 9:20:00 A	AM
Client Sample ID:	2-8			Matrix	C: SOIL	
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 30	0.0: ANIONS				A	nalyst: MRA
Chloride		17000	750	mg/Kg	500 8/23/2016 9:52:4	6 PM 27113

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

- * 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order: 1608B49

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/24/2016

	ates Petroleum Corpora ayton Townsite Water S		ams Wate	La	ab Order: 1608	B49
Lab ID: Client Sample ID:	1608B49-006 2-10			Collection Date: Matrix:	8/16/2016 9:24:00 A SOIL	М
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	9000	750	mg/Kg	An 500 8/23/2016 10:05:1	alyst: MRA 1 PM 27113
Lab ID: Client Sample ID:	1608B49-007 2-12			Collection Date: Matrix:	8/16/2016 9:30:00 A SOIL	M
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	2100	75	mg/Kg	An 50 8/23/2016 10:17:3	alyst: MRA 6 PM 27113
Lab ID:	1608B49-008			Collection Date:	8/16/2016 9:35:00 A	M
Client Sample ID:	2-14			Matrix:	SOIL	
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	310	30	mg/Kg	An 20 8/22/2016 2:36:46	alyst: MRA PM 27113
Lab ID:	1608B49-009			Collection Date:	8/16/2016 9:48:00 A	M
Client Sample ID:	3-8			Matrix:	SOIL	
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	20000	1500	mg/Kg	An 1E 8/23/2016 10:30:0	nalyst: MRA 00 PM 27113
Lab ID:	1608B49-010			Collection Date:	8/16/2016 9:51:00 A	M
Client Sample ID:	3-10			Matrix:	SOIL	
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	14000	750	mg/Kg	Ar 500 8/23/2016 10:42:2	nalyst: MRA 25 PM 27113

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

- 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
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits J Page 2 of 5
- Sample pH Not In Range
- P RL
- Reporting Detection Limit Sample container temperature is out of limit as specified

Analytical Report

Lab Order: 1608B49

DF Date Analyzed

DF Date Analyzed

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/24/2016

1608B49

Batch ID

Batch ID

CLIENT:	Yates Petroleum Corporation	Lab O	rder:	1608B49
Project:	Dayton Townsite Water System (Williams Wate			
Lab ID:	1608B49-011	Collection Date: 8/1	6/2016 9	:56:00 AM
Client Sample	e ID: 3-12	Matrix: SO	IL	

DF Date Analyzed **Batch ID** Result PQL Qual Units Analyses Analyst: MRA **EPA METHOD 300.0: ANIONS** 500 8/23/2016 10:54:50 PM 27113 Chloride 15000 750 mg/Kg

Collection Date: 8/16/2016 10:02:00 AM 1608B49-012 Lab ID:

Matrix: SOIL Client Sample ID: 3-14 Result

Analyses Analyst: MRA **EPA METHOD 300.0: ANIONS** 500 8/23/2016 11:07:14 PM 27113 16000 750 mg/Kg Chloride

PQL Qual Units

Collection Date: 8/16/2016 10:40:00 AM 1608B49-013 Lab ID: Matrix: SOIL Client Sample ID: 4-6

DF Date Analyzed Batch ID Result PQL Qual Units Analyses

Analyst: MRA **EPA METHOD 300.0: ANIONS** 500 8/23/2016 11:44:29 PM 27113 21000 750 mg/Kg Chloride

Collection Date: 8/16/2016 10:43:00 AM 1608B49-014 Lab ID:

Matrix: SOIL Client Sample ID: 4-8 Result

PQL Qual Units Analyses Analyst: MRA **EPA METHOD 300.0: ANIONS** 1E 8/23/2016 11:56:54 PM 27113 1500 mg/Kg Chloride 21000

Collection Date: 8/16/2016 10:46:00 AM 1608B49-015 Lab ID:

Matrix: SOIL Client Sample ID: 4-10

DF Date Analyzed **Batch ID** PQL Qual Units Result Analyses Analyst: MRA **EPA METHOD 300.0: ANIONS**

21000 1E 8/24/2016 12:09:18 AM 27113 1500 mg/Kg Chloride

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

Value exceeds Maximum Contaminant Level. Qualifiers:

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range E

Analyte detected below quantitation limits J Page 3 of 5

Sample pH Not In Range

Reporting Detection Limit RL

Sample container temperature is out of limit as specified

Client Sample ID: 4-14

EPA METHOD 300.0: ANIONS

Analyses

Chloride

Analytical Report

Lab Order: 1608B49

DF Date Analyzed

500 8/24/2016 12:34:08 AM 27113

Batch ID

Analyst: MRA

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/24/2016

CLIENT: Project:	Yates Petroleum Corp Dayton Townsite Wat		iams Wate		Lab Order:	1608B49
Lab ID: Client Sample	1608B49-016				Pate: 8/16/2016 10:50	0:00 AM
Analyses	. 12	Result	PQL Qua		DF Date Analy	zed Batch ID
EPA METHO Chloride	D 300.0: ANIONS	22000	1500	mg/Kg	1E 8/24/2016 12	Analyst: MRA 2:21:43 AM 27113
Lab ID:	1608B49-017			Collection I	Date: 8/16/2016 10:5	6:00 AM

Result

20000

PQL Qual Units

750

mg/Kg

Matrix: SOIL

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

- * 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1608B49 24-Aug-16

Client:

Yates Petroleum Corporation

Project:

Dayton Townsite Water System (Williams Wate

Sample ID MB-27113

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: Prep Date:

PBS

Batch ID: 27113

RunNo: 36677

8/22/2016 Analysis Date: 8/22/2016

SeqNo: 1136325

Units: mg/Kg

RPDLimit

Qual

Analyte Chloride

Result ND

SPK value SPK Ref Val %REC LowLimit PQL 1.5

HighLimit

%RPD

Sample ID LCS-27113

LCSS

Batch ID: 27113

RunNo: 36677

TestCode: EPA Method 300.0: Anions

LowLimit

Prep Date:

Client ID:

8/22/2016

Analysis Date: 8/22/2016

SampType: Ics

SeqNo: 1136326

Units: mg/Kg

RPDLImit %RPD

Analyte

Result

SPK value SPK Ref Val 15.00

94.2

Chloride

PQL

1.5

%REC

HighLimit 110

Qual

14

90

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

RPD outside accepted recovery limits R

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank В

E Value above quantitation range

Analyte detected below quantitation limits J

Page 5 of 5

P Sample pH Not In Range

Reporting Detection Limit RL

Sample container temperature is out of limit as specified



tiali Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505.345.3075 FAY: 505.345.4107

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Yates Petioleum Corpora Work Order Number:	1608B49		RoptNo: 1	
Received by/date				
Logged By: Ashley Gallegos 8/18/2016 9:55:00 AM		SAS		
Completed By: Ashley Gallegos 8/19/2016 8:41:28 AM		A		
Reviewed By: 40 08 17 16		V		
Chain of Custody				
1. Custody seals intact on sample bottles?	Yes 🗌	No 🗆	Not Present 🗹	
2. Is Chain of Custody complete?	Yes 🗹	No 🗆	Not Present	•
3. How was the sample delivered?	Courier			
<u>Log In</u>				
4. Was an attempt made to cool the samples?	Yes 🗌	No 🗹	NA □	
	Not req	ulred		
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗌	No 🗹	NA 🗆	*
6. Sample(s) in proper container(s)?	Not requ	uired No 🗆		
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗆		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗆		
9. Was preservative added to bottles?	Yes	No 🗹	NA 🗆	
10.VOA vials have zero headspace?	Yes 🔲	No 🗆	No VOA Vials 🗹	
11. Were any sample containers received broken?	Yes	No ₩. [# of preserved	
42 Page account match to the label 2	v	vs. □	bottles checked for pH:	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🔽	No 🗆	TOMOLITA A PRINCIPAL	>12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🔽	No □	Adjusted?	
14. Is it clear what analyses were requested?	Yes 🗹	No 🗆		
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🔽	No 🗆	Checked by:	
			*	
Special Handling (if applicable) 16. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗆	NA 🗹	
	TES L.I	NO LI	MA [V]	
Person Notified: Date	w., _		П. в. в	
By Whom: Via: Regarding:	eMail	Phone Fax	☐ In Person	
Client Instructions:		-	-	
17. Additional remarks:			· · · · · · · · · · · · · · · · · · ·	J
18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By	I	
1 22.1 Good Yes				5 T
		,		

C.
CLUSTOR Correction Correc

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited

HALL ENVIRONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Fax 505-345-4107	Analysis Request				308 808	e LeOI LeOI (AC	etal cidee (Ac	RCRA 8 M Aniona (F, 68081 Pesti 8260B (VC 8270 (Sem	×	×	×	×	×			Anions: Chloride only. PAGE 2 OF 2.	
HALI	ANA	www.h	4901 Hawkins NE	Tel. 505-345-3975		luo	388) F (Ga	191 88 (1.	+: 910	8 po 9 po 9 po	M + X3T8 M + X3T8 H9T Meth (Meth								Remarks: Anions: Ch	
1 UTITIONING 1 INTE.	Standard Rush	oject Name:	Dayton Townsite Water System (Williams Water Line)	Project #:	8/9/2016 Release	Project Manager:		PO # 205-2020	Sampler: Amber Griffin AG	□ Yes	Sample Terriperature: 22.1	Container Preservativ HEAL No. Type and # e Type (1008 P.C.)	1-40z -013	1-40z -D1Cf	1.40z	1-40z	1-40z			Received by: Date Time Minched Cornelly 8/18/16 0455	ceived by: (Date Time
cora	Yates Petroleum Corporation	n.	1	05 South 4th Street Artesia, NM 88210	575-513-8799 or 575-748-4111			☐ Level 4 (Full Validation)	-	Other		Matrix Sample Request ID	4-6	4-8	4-10'	4-12	4-14'			Relinquished by:	<u>}</u>
Chain-of-(lient: Yates Petrol		lalling Address:	South 4th Street	hone #: 575-	ax#.		Standard	cereditation:		(ed/	Date Time Ma	/16/2016 10:40 Soil	/16/2016 10:43 Soil		/16/2016 10:50 Soil				ate: Time: Relin	Time:



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

August 29, 2016

Amber Griffin
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4195

FAX

RE: Dayton Townsite Water System (Williams Water Line)

OrderNo.: 1608C32

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 8 sample(s) on 8/18/2016 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 #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andigl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 1608C32 Date Reported: 8/29/2016

Hall Environmental Analysis Laboratory, Inc.

	ates Petroleum Corpo ayton Townsite Wate		ms Wate	La	b Order: 16080	232
Lab ID: Client Sample ID:	1608C32-001 1-2.5'			Collection Date: Matrix:	8/16/2016 8:19:00 A SOIL	M
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 300.	.0: ANIONS	2600	75	mg/Kg	Ana 50 8/26/2016 4:21:44	alyst: MRA PM 27138
Lab ID: Client Sample ID:	1608C32-002 1-4'	144 - 145 - 146 -		Matrix:		M
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	420	30	mg/Kg	An 20 8/24/2016 11:14:5	alyst: MRA 0 AM 27138
Lab ID: Client Sample ID:	1608C32-003 2-2.5'		10	Collection Date: Matrix:	8/16/2016 9:12:00 A SOIL	M
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	18000	750	mg/Kg	An 500 8/26/2016 4:34:08	alyst: MRA PM 27138
Lab ID: Client Sample ID:	1608C32-004 2-4'			Collection Date: Matrix	: 8/16/2016 9:14:00 A	M
Analyses		Result	PQL Qua	Units	DF Date Analyzed	Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	14000	750	mg/Kg	Ar 500 8/26/2016 4:46:33	nalyst: MRA BPM 27138
Lab ID: Client Sample ID:	1608C32-005 3-4'			Matrix		
Analyses		Result	PQL Qua	l Units	DF Date Analyzed	Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	18000	750	mg/Kg	Ai 500 8/26/2016 4:58:5	nalyst: MRA 7 PM 27138

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
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits J Page 1 of 3
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Lab ID:

Analyses

Chloride

Client Sample ID: 4-4'

EPA METHOD 300.0: ANIONS

Analytical Report

Lab Order: 1608C32

Hall Environmental Analysis Laboratory, Inc.

1608C32-008

Date Reported: 8/29/2016

	Yates Petroleum Corp Dayton Townsite Wat		ıms Wate		Lab Order:	1608C32	
Lab ID: Client Sample ID:	1608C32-006 3-6'		(ite: 8/16/2016 9:4	15:00 AM	
Analyses		Result	PQL Qual	Units	DF Date Ana	lyzed B	Batch ID
EPA METHOD 30 Chloride	0.0: ANIONS	16000	750	mg/Kg	500 8/26/2016	<i>U</i>	et: MRA 27138
Lab ID: Client Sample ID:	1608C32-007 4-2'		,	STATES AND NOTES	ate: 8/16/2016 10	:32:00 AM	e R
Analyses		Result	PQL Qual	Units	DF Date Ana	alyzed F	Batch ID
EPA METHOD 30 Chloride	0.0: ANIONS	17000	750	mg/Kg	500 8/26/2016		st: MRA 1 27138

Result

17000

PQL Qual Units

mg/Kg

750

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
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank

Collection Date: 8/16/2016 10:36:00 AM

DF Date Analyzed

500 8/26/2016 6:00:59 PM 27138

Batch ID

Analyst: MRA

Matrix: SOIL

- Value above quantitation range E
- Analyte detected below quantitation limits Page 2 of 3
- Sample pH Not In Range P
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1608C32

29-Aug-16

Client:

Yates Petroleum Corporation

Project:

Dayton Townsite Water System (Williams Wate

Sample ID MB-27138

Sample ID LCS-27138

SampType: mblk

TestCode: EPA Method 300.0: Anions

LowLimit

Client ID: **PBS** Batch ID: 27138

RunNo: 36705

Prep Date: 8/23/2016 Analysis Date: 8/24/2016

SeqNo: 1137468

Units: mg/Kg

HighLimit

%RPD

RPDLimit

Qual

Analyte Chloride

Result ND

SampType: Ics Batch ID: 27138

1.5

TestCode: EPA Method 300.0: Anions

RunNo: 36705

SeqNo: 1137469

%REC LowLimit

Units: mg/Kg

HighLimit

RPDLimit

Qual

Analyte Chloride

Client ID:

Prep Date:

8/23/2016

LCSS

Analysis Date: 8/24/2016

Result

14

SPK value SPK Ref Val %REC

0

SPK value SPK Ref Val

93.8

90

%RPD

15.00

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

% Recovery outside of range due to dilution or matrix

Not Detected at the Reporting Limit ND

RPD outside accepted recovery limits R

B Analyte detected in the associated Method Blank

E Value above quantitation range

Analyte detected below quantitation limits J

Page 3 of 3

Sample pH Not In Range P

Reporting Detection Limit RL

Sample container temperature is out of limit as specified

Released to Imaging: 11/2/2022 9:15:31 AM



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Yates Petroleum Corporat Work Order Number:	1608C32		RcptNo: 1	
Received by/date: AS 08/18/16		And Allen		į
Logged By: Lindsay Mangin 8/18/2016 9:55:00 AM		Joseph Hofgo Joseph Hofgo		
Completed By: Lindsay Mangin 8/22/2016 12:28:41 PM	i	James Herry		ļ
Reviewed By: 08/23//6				1
Chain of Custody				
1. Custody seals intact on sample bottles?	Yes 🗆	No 🗆	Not Present	
2. Is Chain of Custody complete?	Yes 🗹	No 🗆	Not Present	
3. How was the sample delivered?	Courier	M		
<u>Log In</u>				
4. Was an attempt made to cool the samples?	Yes 🕏	No 🗆	NA 🗆	
	P=273		🖂	
Were all samples received at a temperature of >0° C to 6.0°C	Yes 🖈	No 🗆	na 🗀	
6. Sample(s) in proper container(s)?	Yes 🐼	No 🗆		
	Yes 🐼	No □		
7. Sufficient sample volume for indicated test(s)?	Yes 🐼	No []		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗆	No 🐼	NA 🗆	
9. Was preservative added to bottles?	100			
10.VOA vials have zero headspace?	Yes 🗆	No 🗆	No VOA Vials	
11. Were any sample containers received broken?	Yes 🗆	No 🗗	# of preserved	
	Yes 🐼	No □	bottles checked for pH;	
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 💌	NO LL	(<2 0	or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🖝	No 🗆	Adjusted?	
14. Is it clear what analyses were requested?	Yes 🐼	No □	Charled by	
15. Were all holding times able to be met?	Yes 🕝	No 🗀	Checked by:	
(If no, notify customer for authorization.)				
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗆	NA 🐼	
Person Notlfied: Date:	***************************************	**************************************		
By Whom: Via:	eMail] Phone [] Fax	☐ In Person	1
Regarding:				
Client Instructions:		3. €0.		i
17. Additional remarks:				
18. Cooler Information		¥	30	
Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By	4	
1 1.5 Good Yes		.1	7	



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

August 29, 2016

Amber Griffin
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4195

FAX

RE: Dayton Townsite Water System (Williams Water Line)

OrderNo.: 1608C32

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 8 sample(s) on 8/18/2016 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 qualifers 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 #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report
Lab Order 1608C32
Date Reported: 8/29/2016

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: 1-2.5'

Project: Dayton Townsite Water System (William

CLIENT: Yates Petroleum Corporation

Collection Date: 8/16/2016 8:19:00 AM

Lab ID: 1608C32-001

Matrix: SOIL

Received Date: 8/18/2016 9:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	5				Analys	: TOM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	8/24/2016 11:28:14 AM	27096
Surr: DNOP	75.6	70-130		%Rec	1	8/24/2016 11:28:14 AM	27096
EPA METHOD 8015D: GASOLINE RAN	IGE					Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/24/2016 12:43:58 PM	27122
Surr: BFB	81.1	68.3-144		%Rec	1	8/24/2016 12:43:58 PM	27122
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	ND	0.024		mg/Kg	1	8/24/2016 12:43:58 PM	27122
Toluene	ND	0.049)	mg/Kg	1	8/24/2016 12:43:58 PM	27122
Ethylbenzene	ND	0.049)	mg/Kg	1	8/24/2016 12:43:58 PM	1 27122
Xylenes, Total	ND	0.097		mg/Kg	1	8/24/2016 12:43:58 PM	1 27122
Surr: 4-Bromofluorobenzene	95.2	80-120)	%Rec	1	8/24/2016 12:43:58 PM	1 27122

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

- 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1608C32

Date Reported: 8/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: 1-4'

Project:

Dayton Townsite Water System (William

Collection Date: 8/16/2016 8:21:00 AM

Lab ID:

1608C32-002

Matrix: SOIL

Received Date: 8/18/2016 9:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/24/2016 11:50:12 AM	27096
Surr: DNOP	84.8	70-130	%Rec	1	8/24/2016 11:50:12 AM	27096
EPA METHOD 8015D: GASOLINE RAN	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/24/2016 1:54:24 PM	27122
Surr: BFB	80.6	68.3-144	%Rec	1	8/24/2016 1:54:24 PM	27122
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	8/24/2016 1:54:24 PM	27122
Toluene	ND	0.048	mg/Kg	1	8/24/2016 1:54:24 PM	27122
Ethylbenzene	ND	0.048	mg/Kg	1	8/24/2016 1:54:24 PM	27122
Xylenes, Total	ND	0.095	mg/Kg	1	8/24/2016 1:54:24 PM	27122
Surr: 4-Bromofluorobenzene	95.7	80-120	%Rec	1	8/24/2016 1:54:24 PM	27122

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

- 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1608C32 Date Reported: 8/29/2016

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: 2-2.5'

Project: Dayton Townsite Water System (William

CLIENT: Yates Petroleum Corporation

Collection Date: 8/16/2016 9:12:00 AM

Lab ID: 1608C32-003

Matrix: SOIL

Received Date: 8/18/2016 9:55:00 AM

Analyses	Result	PQL	Qual Units	DF Date Analyzed Ba	atch
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANIC	S		Analyst: To	ОМ
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1 8/24/2016 12:12:00 PM 2	7096
Surr: DNOP	82.1	70-130	%Rec	1 8/24/2016 12:12:00 PM 2	7096
EPA METHOD 8015D: GASOLINE RAN	IGE			Analyst: N	ISB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1 8/24/2016 3:04:46 PM 2	7122
Surr: BFB	82.4	68.3-144	%Rec	1 8/24/2016 3:04:46 PM 2	27122
EPA METHOD 8021B: VOLATILES				Analyst: N	1SB
Benzene	ND	0.024	mg/Kg	1 8/24/2016 3:04:46 PM 2	27122
Toluene	ND	0.048	mg/Kg	1 8/24/2016 3:04:46 PM 2	27122
Ethylbenzene	ND	0.048	mg/Kg	1 8/24/2016 3:04:46 PM 2	27122
Xylenes, Total	ND	0.095	mg/Kg	1 8/24/2016 3:04:46 PM 2	27122
Surr: 4-Bromofluorobenzene	96.2	80-120	%Rec	1 8/24/2016 3:04:46 PM 2	27122

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

- 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1608C32
Date Reported: 8/29/2016

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: 2-4'

Project: Dayton Townsite Water System (William

CLIENT: Yates Petroleum Corporation

Collection Date: 8/16/2016 9:14:00 AM

Lab ID: 1608C32-004

Matrix: SOIL

Received Date: 8/18/2016 9:55:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	том
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	8/24/2016 12:33:53 PM	27096
Surr: DNOP	81.9	70-130	%Rec	1	8/24/2016 12:33:53 PM	27096
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/24/2016 3:28:18 PM	27122
Surr: BFB	8.08	68.3-144	%Rec	1	8/24/2016 3:28:18 PM	27122
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	8/24/2016 3:28:18 PM	27122
Toluene	ND	0.048	mg/Kg	1	8/24/2016 3:28:18 PM	27122
Ethylbenzene	ND	0.048	mg/Kg	1	8/24/2016 3:28:18 PM	27122
Xylenes, Total	ND	0.096	mg/Kg	1	8/24/2016 3:28:18 PM	27122
Surr: 4-Bromofluorobenzene	94.5	80-120	%Rec	1	8/24/2016 3:28:18 PM	27122

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

- 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1608C32

Date Reported: 8/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

t was a divini

Project: Dayton Townsite Water System (William

Lab ID: 1608C32-005

Client Sample ID: 3-4'

Collection Date: 8/16/2016 9:43:00 AM

Received Date: 8/18/2016 9:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANIC	S			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/24/2016 12:55:45 PM	27096
Surr: DNOP	81.8	70-130	%Rec	1	8/24/2016 12:55:45 PM	27096
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/24/2016 3:51:47 PM	27122
Surr: BFB	79.7	68.3-144	%Rec	1	8/24/2016 3:51:47 PM	27122
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	8/24/2016 3:51:47 PM	27122
Toluene	ND	0.048	mg/Kg	1	8/24/2016 3:51:47 PM	27122
Ethylbenzene	ND	0.048	mg/Kg	1	8/24/2016 3:51:47 PM	27122
Xylenes, Total	ND	0.095	mg/Kg	1	8/24/2016 3:51:47 PM	27122
Surr: 4-Bromofluorobenzene	91.7	80-120	%Rec	1	8/24/2016 3:51:47 PM	27122

Matrix: SOIL

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

- 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1608C32

Date Reported: 8/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Dayton Townsite Water System (William

Lab ID: 1608

Project:

1608C32-006

Matrix: SOIL

Client Sample ID: 3-6'

Collection Date: 8/16/2016 9:45:00 AM

Received Date: 8/18/2016 9:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	8			Analyst	: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/24/2016 1:17:43 PM	27096
Sur: DNOP	87.5	70-130	%Rec	1	8/24/2016 1:17:43 PM	27096
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/24/2016 4:15:10 PM	27122
Sur: BFB	79.3	68.3-144	%Rec	1	8/24/2016 4:15:10 PM	27122
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	8/24/2016 4:15:10 PM	27122
Toluene	ND	0.049	mg/Kg	1	8/24/2016 4:15:10 PM	27122
Ethylbenzene	ND	0.049	mg/Kg	1	8/24/2016 4:15:10 PM	27122
Xylenes, Total	ND	0.097	mg/Kg	1	8/24/2016 4:15:10 PM	27122
Surr: 4-Bromofluorobenzene	91.4	80-120	%Rec	1	8/24/2016 4:15:10 PM	27122

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

- 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1608C32 Date Reported: 8/29/2016

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: 4-2'

Project: Dayton Townsite Water System (William

CLIENT: Yates Petroleum Corporation

Collection Date: 8/16/2016 10:32:00 AM

Lab ID: 1608C32-007

Matrix: SOIL

Received Date: 8/18/2016 9:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	8			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/24/2016 1:39:33 PM	27096
Surr: DNOP	78.7	70-130	%Rec	1	8/24/2016 1:39:33 PM	27096
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/24/2016 8:56:03 PM	27122
Surr: BFB	81.8	68.3-144	%Rec	1	8/24/2016 8:56:03 PM	27122
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.024	mg/Kg	1	8/24/2016 8:56:03 PM	27122
Toluene	ND	0.048	mg/Kg	1	8/24/2016 8:56:03 PM	27122
Ethylbenzene	ND	0.048	mg/Kg	1	8/24/2016 8:56:03 PM	27122
Xylenes, Total	ND	0.096	mg/Kg	1	8/24/2016 8:56:03 PM	27122
Surr: 4-Bromofluorobenzene	94.8	80-120	%Rec	1	8/24/2016 8:56:03 PM	27122

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

- * 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1608C32

Date Reported: 8/29/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: 4-4'

Project: Dayton Townsite Water System (William

Collection Date: 8/16/2016 10:36:00 AM

Lab ID: 1608C32-008

Matrix: SOIL

Received Date: 8/18/2016 9:55:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANIC	S			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/24/2016 2:01:31 PM	27096
Surr: DNOP	81.1	70-130	%Rec	1	8/24/2016 2:01:31 PM	27096
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/24/2016 9:19:20 PM	27122
Surr: BFB	81.8	68.3-144	%Rec	1	8/24/2016 9:19:20 PM	27122
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	8/24/2016 9:19:20 PM	27122
Toluene	ND	0.050	mg/Kg	1	8/24/2016 9:19:20 PM	27122
Ethylbenzene	ND	0.050	mg/Kg	1	8/24/2016 9:19:20 PM	27122
Xylenes, Total	ND	0.099	mg/Kg	1	8/24/2016 9:19:20 PM	27122
Surr: 4-Bromofluorobenzene	94.4	80-120	%Rec	1	8/24/2016 9:19:20 PM	27122

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

- * 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1608C32

%RPD

RPDLimit

Qual

29-Aug-16

Client:

Yates Petroleum Corporation

Project:

Dayton Townsite Water System (Williams Wate

Sample ID LCS-27096	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch	Batch ID: 27096 RunNo: 36709								
Prep Date: 8/22/2016	Analysis Da	ate: 8/	24/2016	SeqNo: 1137693			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLImit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	112	62.6	124			
Sum: DNOP	4.9		5.000		98.6	70	130			
Sample ID MB-27096	SampTy	/pe: ME	зьк	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch ID: 27096			F	RunNo: 3	6709				
Prep Date: 8/22/2016	Analysis Da	Analysis Date: 8/24/2016			SeqNo: 1	137694	Units: mg/l	⟨ g		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Diesel Range Organics (DRO)	ND	10					
Surr: DNOP	9.0		10.00		89.5	70	130

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank B
- E Value above quantitation range
- Analyte detected below quantitation limits J

Page 9 of 11

- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1608C32

29-Aug-16

Client:

Yates Petroleum Corporation

24

850

5.0

25.00

1000

Project:

Gasoline Range Organics (GRO)

Surr: BFB

Dayton Townsite Water System (Williams Wate

Sample ID MB-27122	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 27122	RunNo: 36718
Prep Date: 8/23/2016	Analysis Date: 8/24/2016	SeqNo: 1138315 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	ND 5.0	
Surr: BFB	760 1000	76.0 68.3 144
Sample ID LCS-27122	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 27122	RunNo: 36718
Prep Date: 8/23/2016	Analysis Date: 8/24/2016	SeqNo: 1138316 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

0

95.6

84.7

80

68.3

120

144

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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits

Page 10 of 11

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1608C32

29-Aug-16

Client:

Yates Petroleum Corporation

Project: Dayton T	Cownsite W	later Sys	stem (Willi	ams Wate						
Sample ID MB-27122	SampType: MBLK TestCode: EPA Method 80				8021B: Volat	iles				
Client ID: PBS	Batcl	h ID: 271	122	R	tunNo: 36	6718				
Prep Date: 8/23/2016	Analysis D	Date: 8/2	24/2016	S	eqNo: 1	138341	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1,000		88.5	80	120			
Sample ID LCS-27122	Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 27	122	F	RunNo: 3	6718				
Prep Date: 8/23/2016	Analysis [Date: 8/	24/2016	5	SeqNo: 1	138342	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	87.1	75.3	123			
Toluene	0.92	0.050	1.000	0	92.0	80	124			
Ethylbenzene	0.97	0.050	1.000	0	96.6	82.8	121			
						505 100	100			
Xylenes, Total	2.9	0.10	3.000	0	97.5	83.9	122			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix S
- B Analyte detected in the associated Method Blank
- Value above quantitation range E
- J Analyte detected below quantitation limits

Page 11 of 11

- Sample pH Not In Range P
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Yates Petroleum Corporat Work Order Nu	mber: 1608C32		RcptNo: 1	
Received by/date: AS 08/18/11	9			i
Logged By: Lindsay Mangin 8/18/2016 9:55:0	MA 0	Strake Hlesty D Strake Hlesty D		11
Completed By: Lindsay Mangin 8/22/2016 12:28:	41 PM	Josephy Hongs		İ
Reviewed By: 08/23/16				į
Chain of Custody				
1. Custody seals intact on sample bottles?	Yes 🗆	No 🗆	Not Present	
2. Is Chain of Custody complete?	Yes 🖃	No 🗆	Not Present 🗌	
3. How was the sample delivered?	Courier			
<u>Log In</u>				
4. Was an attempt made to cool the samples?	Yes 🐼	No 🗆	NA □	
*			m	
5. Were all samples received at a temperature of >0° C to 6.0°C	C Yes 🗹	No 🗆	NA 🗀	
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗆		
	[- 2]			
7, Sufficient sample volume for indicated test(s)?	Yes 🗹	No LJ		
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑ Yes ☐	No 🗗	NA 🗀	
9. Was preservative added to bottles?	res 🗀	110 1111		
10.VOA vials have zero headspace?	Yes 🔲	No 🖸	No VOA Vials 🗹	
11. Were any sample containers received broken?	Yes 🗆	No 🐼	# of preserved	
40	Yes 🗹	No □	bottles checked for pH:	
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)	res 🖭	NO LL	(<2 0	r >12 unless noted
13, Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗆	Adjusted?	
14. Is it clear what analyses were requested?	Yes 🗹	No 🗆	Oh a shad bur	
15. Were all holding times able to be met?	Yes 🐼	No 🗆	Checked by:	
(If no, notify customer for authorization.)				
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes 🗆	No 🗆	NA 🐼	
Person Notified:	Date:			
By Whom:	the second secon] Phone 🔲 Fax	☐ In Person	1
Regarding:	munches and the same of the sa	- In the state of		!
Client Instructions:	The state of the s			i
17. Additional remarks:				
18. Cooler Information			5	
Cooler No Temp °C Condition Seal Intact Sea	I No Seal Date	Signed By	-	
1 1.5 Good Yes		1	1	



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

September 27, 2016

Amber Griffin
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4195
FAX

RE: Dayton Townsite Water System (Williams Water Line)

OrderNo.: 1609856

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 7 sample(s) on 9/15/2016 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 qualifers 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 #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Andist

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 1609856

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/27/2016

Mallace and increase for an order to the						
	ates Petroleum Corp Payton Townsite Wat		ms Wate	1	ab Order: 160985	6
riojecti L	ayton rownsite wat	or Dystem (William	110 11410			
Lab ID;	1609856-001				: 9/13/2016 10:08:00 AI	M
Client Sample ID:	3-16'			Matrix	: SOIL	
Analyses		Result	PQL Qua	al Units	DF Date Analyzed	Batch ID
EPA METHOD 300	.0: ANIONS				Anal	yst: LGT
Chloride		22000	750	mg/Kg	500 9/23/2016 3:49:40 A	M 27611
Lab ID:	1609856-002			Collection Date	e: 9/13/2016 10:14:00 A	M
Client Sample ID:	3-18'			Matrix	: SOIL	
Analyses		Result	PQL Qu	al Units	DF Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS				Anal	yst: LGT
Chloride		24000	1500	mg/Kg	1E 9/23/2016 4:02:05 A	M 27611
Lab ID:	1609856-003			Collection Date	e: 9/13/2016 10:20:00 A	М
Client Sample ID:	3-20'			Matrix	x: SOIL	
Analyses		Result	PQL Qu	al Units	DF Date Analyzed	Batch ID
EPA METHOD 300	0.0: ANIONS				Ana	lyst: LGT
Chloride		17000	750	mg/Kg	500 9/23/2016 4:14:29 A	AM 27611
Lab ID:	1609856-004			Collection Dat	e: 9/13/2016 10:35:00 A	M
Client Sample ID:	3-22'			Matri	x: SOIL	
Analyses		Result	PQL Qu	nal Units	DF Date Analyzed	Batch ID
EPA METHOD 30	0.0: ANIONS				Ana	lyst: LGT
Chloride		5200	300	mg/Kg	200 9/23/2016 4:26:54	AM 27611
Lab ID:	1609856-005			Collection Dat	e: 9/13/2016 11:01:00 A	M
Client Sample ID:	4-16'			Matri	x: SOIL	
Analyses		Result	PQL Qu	ual Units	DF Date Analyzed	Batch ID
EPA METHOD 30	0.0: ANIONS				Ana	alyst: LGT
						DIT DESIGN

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

30

mg/Kg

720

Qualifiers:

Chloride

- * 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 3

20 9/21/2016 4:28:55 PM 27611

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Chloride

Analytical Report

Lab Order: 1609856

Date Reported: 9/27/2016

500 9/23/2016 4:51:43 AM 27611

Hall Environmental Analysis Laboratory, Inc.

	Yates Petroleum Corp Dayton Townsite Wat		ams Wate		Lab Order: 1609	9856
Lab ID: Client Sample ID:	1609856-006 : 4-18'				ate: 9/13/2016 11:06:00	AM
Analyses		Result	PQL Qua	Units	DF Date Analyzed	Batch ID
EPA METHOD 30 Chloride	0.0: ANIONS	14000	750	mg/Kg	A 500 9/23/2016 4:39:1	nalyst: LGT 8 AM 27611
Lab ID: Client Sample ID	1609856-007 : 4-20'				Pate: 9/13/2016 11:12:00 trix: SOIL	AM
Analyses		Result	PQL Qua	l Units	DF Date Analyzed	Batch ID
EPA METHOD 30	00.0: ANIONS				Α	nalyst: LGT

750

mg/Kg

14000

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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 2 of 3

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609856

27-Sep-16

Client:

Yates Petroleum Corporation

Result

Project:

Dayton Townsite Water System (Williams Wate

Sample ID MB-27611

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 27611

RunNo: 37376

Prep Date: 9/20/2016 Analysis Date: 9/21/2016 PQL

SeqNo: 1161550

Units: mg/Kg

HighLimit

RPDLimit

Qual

Analyte Chloride

1.5 ND

Sample ID LCS-27611

SampType: LCS

TestCode: EPA Method 300.0: Anions

SPK value SPK Ref Val %REC LowLimit

SPK value SPK Ref Val %REC LowLimit

LCSS Client ID:

Batch ID: 27611

RunNo: 37376

Prep Date: 9/20/2016

Analysis Date: 9/21/2016

1.5

SeqNo: 1161552

Units: mg/Kg

%RPD

Qual

Analyte

15.00

94.5

HighLimit

%RPD

RPDLimit

PQL

110

Chloride

Result 14

90

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit ND RPD outside accepted recovery limits R

% Recovery outside of range due to dilution or matrix S

B Analyte detected in the associated Method Blank

E Value above quantitation range

Analyte detected below quantitation limits J

Page 3 of 3

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified W



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Yates Petroleum Corpora Work Orde	r Number: 1609856		RcptNo; 1	
Received by/date: CP 15 Logged By: Lindsay Mangin 9/15/2016 10 Completed By: Lindsay Mangin 9/15/2016 3: Reviewed By: O9 16	04;13 PM	Sportsy Hologo Sportsy Hologo		
Chain of Custody		No 🗆	Not Present	
1. Custody seals intact on sample bottles?	Yes 🗹	No [Not Present	
2. Is Chain of Custody complete?	Yes 🗹	NO LJ	Mot Pleasift LD	
3. How was the sample delivered?	Courier			
Log in 4. Was an attempt made to cool the samples?	Yes ✓	No 🗆	na □	
5. Were all samples received at a temperature of >0° C to	6.0°C Yes ☑	No 🗆	NA 🗆	
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗆		
7. Sufficient sample volume for indicated test(s)?	Yes 🔽	No 🗆		
8. Are samples (except VOA and ONG) properly preserved	? Yes ☑	No 🗆		
9. Was preservative added to bottles?	Yes 🗆	No 🗹	NA 🗆	
10.VOA vials have zero headspace?	Yes 🗆	No □	No VOA Vials 🗹	z ¹
11. Were any sample containers received broken?	Yes 🗆	No ☑ [# of preserved	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No □	bottles checked for pH: (<2 or : Adjusted?	>12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No □ No □		-
14. Is it clear what analyses were requested?	Yes ☑ Yes ☑	No 🗆	Checked by:	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	165 🖭			
Special Handling (if applicable)	Yes □	No 🗆	na 🗹	
16. Was client notified of all discrepancies with this order?		140 🗆	NA E	
Person Notified:	Date	Dhana 🗀 For	☐ In Person	
By Whom:	Via: eMail	Phone Fax	☐ III Leison	
Regarding: Client Instructions:				
17. Additional remarks:				Į.
18. Cooler Information	Seal No Seal Date	Signed By		

HALL ENVIRONMENTAL ANALYSIS LABORATORY	com	NM 87109	15-4107	st					(AO)	\-\L	ue	8) 07S8											AGE 1 0F 1.	1. 1. 1.	4/22/2016.	and an electric property	gibd on the analyses topos
HALL ENVIRONMENTAL	www.hallenvironmental.com	Ago1 Hawkins NE - Albuquerque, NM 87109	3975 Fax 505-345-4107	nal	90			ON (I	PAP- 10 ₃ , 10 ₃ ,	ets Cl,1	M in its	EDB (M. B310 (P. B310 (P. B310 (P. B081 P. B08	;	\ \ -	×	×	×	×	×				Anions: Chloride only. PAGE 1 OF 1.		Need by Thursday 9/122/2016		tracted data will be clearly non
3.8	M	A901 Hawkins	To! EUE 345.3975	Tel: 202-24	çlı	10 81	(G3	PH ()	T + :	9 po	oy)	3TEX + TPH Me TPH (Md											Remarks: Anio	į .			f this possibility. Any sub-cor
1 urn-Aroung 1 mie. 9 22 20 6 7 8 1 1 1 1 1 1 1 1 1	Project Name:		Dayton Townsite Water System (Williams Water Line)	Project #:	8/9/2016 Release	Project Manager:	Amber Griffin	PO#2	Sampler: Amber Griffin HO	Temperature.	T	Container Preservativ HEAL No. Type and # e Type // OCXY	1-40Z N/A	1-40Z N/A -UL	Section 1975	-4 02.			1-402 NA	1-4 oz. N/A			Pote Time	7	Received by. Date Time	,	I 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 analyses in the essary, 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 analyses in the experience of this possibility.
Chain-of-Custody Record	ent Yates Perroleum Corporation		ailing Address:	South 4th Street Artesia, NM 88210	575-513-8799 or 575-748-4111	ax#: agriffin@yatespetroleum.com		☐ Level 4 (Full Validation)	nr:	NELAP [] Other	EDD (Type)	Date Time Matrix Sample Request ID	432018 110-08 Soil 3-16					113/2016 11:01 Soil * 4+16'	1/13/2016 11:06 Soil 4-18'						9/14/16 (Link loes fruits in Relinquished by:		



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

September 22, 2016

Amber Griffin
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4195
FAX

RE: Dayton Townsite Water System (Williams Water Line)

OrderNo.: 1609852

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 6 sample(s) on 9/15/2016 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 qualifers 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 #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 1609852

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/22/2016

	ates Petroleum Corp Payton Townsite Wa	the state of the s	ms Wate		Lab Order:	1609852	2
Lab ID:	1609852-001				ate: 9/13/2016 1	1:23:00 AM	1
Client Sample ID:	Horizontal #1			Mat	rix: SOIL		
Analyses		Result	PQL Q	ual Units	DF Date A	nalyzed	Batch ID
EPA METHOD 300	.0: ANIONS					Analy	st: LGT
Chloride		60	30	mg/Kg	20 9/20/20	16 3:35:01 PN	M 27599
Lab ID:	1609852-002			Collection D	ate: 9/13/2016	1:25:00 AN	И
Client Sample ID:	Horizontal #2			Mat	rix: SOIL		
Analyses		Result	PQL Q	ual Units	DF Date A	nalyzed	Batch ID
EPA METHOD 300	0.0: ANIONS					Analy	st: LGT
Chloride		ND	30	mg/Kg	20 9/20/20	16 4:12:15 PI	M 27599
Lab ID:	1609852-003			Collection D	ate: 9/13/2016	11:27:00 AN	M
Client Sample ID:	Horizontal #3			Ma	trix: SOIL		
Analyses		Result	PQL (Qual Units	DF Date A	nalyzed	Batch ID
EPA METHOD 300	0.0: ANIONS					Analy	yst: LGT
Chloride		ND	30	mg/Kg	20 9/21/20	016 1:35:09 Pi	M 27611
Lab ID:	1609852-004			Collection I	Date: 9/13/2016	11:30:00 AI	M
Client Sample ID:	Horizontal #4			Ma	trix: SOIL		
Analyses		Result	PQL (Qual Units	DF Date A	nalyzed	Batch ID
EPA METHOD 30	0.0: ANIONS					Anal	yst: LGT
Chloride		32	30	mg/Kg	20 9/21/20	016 2:12:24 P	M 27611
Lab ID:	1609852-005			Collection I	Date: 9/13/2016	11:32:00 A	M
Client Sample ID:	Horizontal #5			Ma	trix: SOIL	×	
Analyses		Result	PQL (Qual Units	DF Date A	malyzed	Batch ID
EPA METHOD 30	0.0: ANIONS					Anal	lyst: LGT
Chloride		32	30	mg/Kg	20 9/21/2	016 2:24:48 P	PM 27611

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

- 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 3
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order: 1609852

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/22/2016

CLIENT:

Yates Petroleum Corporation

Lab Order:

1609852

Project:

Dayton Townsite Water System (Williams Wate

Result

Lab ID:

1609852-006

Collection Date: 9/13/2016 11:35:00 AM Matrix: SOIL

Analyses

Chloride

Client Sample ID: Horizontal #6

PQL Qual Units

DF Date Analyzed

Batch ID

EPA METHOD 300.0: ANIONS

140

30 mg/Kg 9/21/2016 2:37:13 PM 27611

Analyst: LGT

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank B
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 3
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609852

22-Sep-16

Client: Project: Yates Petroleum Corporation

Dayton Townsite Water System (Williams Wate

Sample ID MB-27599

SampType: MBLK

TestCode: EPA Method 300.0: Anions

TestCode: EPA Method 300.0: Anions

LowLimit

90

Client ID:

PBS

Batch ID: 27599

RunNo: 37349

Prep Date: 9/20/2016

Analysis Date: 9/20/2016

SeqNo: 1160293

Units: mg/Kg

Analyte Result PQL Chloride ND 1.5 SPK value SPK Ref Val %REC LowLimit

HighLlmit %RPD

RPDLimit

Qual

Sample ID LCS-27599 Client ID: LCSS

Prep Date: 9/20/2016

SampType: LCS Batch ID: 27599

RunNo: 37349

Analysis Date: 9/20/2016

SeqNo: 1160294

Units: mg/Kg

%RPD **RPDLimit** Qual

Analyte Chloride

Client ID:

Result 14 SPK value SPK Ref Val 15.00

%REC

94.1

HighLImit 110

RPDLimit

Sample ID MB-27611

Sample ID LCS-27611

Client ID: LCSS

SampType: MBLK

PQL

1.5

TestCode: EPA Method 300.0: Anions RunNo: 37376

Prep Date: 9/20/2016 Batch ID: 27611

Analysis Date: 9/21/2016

SeqNo: 1161550

Units: mg/Kg

HighLimit

Qual

Analyte Chloride

PQL

SampType: LCS

ND

Result

Result

14

1.5

SPK value SPK Ref Val

TestCode: EPA Method 300.0: Anions

%REC LowLimit

RunNo: 37376

HighLimit

Prep Date:

9/20/2016

Batch ID: 27611

SeqNo: 1161552

Units: mg/Kg

110

Analyte

Analysis Date: 9/21/2016

1.5

SPK value SPK Ref Val %REC

LowLimit

%RPD

%RPD

RPDLimit

Qual

Chloride

15.00

94.5

Page 3 of 3

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits % Recovery outside of range due to dilution or matrix S
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Sample Log-In Check List Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Client Name: Yates Petroleum Corpora	Work Order Number:	16098	52		ReptNo: 1	
Received by/date:	15/16			50.00		
Logged By: Lindsay Mangin 9	/15/2016 10:25:00 AM			of tillings		*
Completed By: Lindsay Mangin 9.	/15/2016 2:53:01 PM			July Holgo		
Reviewed By: CCS	09/16/16					
Chain of Custody					_	
1. Custody seals intact on sample bottles?		Yes		No 🗆	Not Present	
2. Is Chain of Custody complete?		Yes	V	No 🗆	Not Present	
3. How was the sample delivered?	·	Cour	er			
<u>Log In</u>						
4. Was an attempt made to cool the samples?		Yes	V	No 🗆	na 🗆	
5: Were all samples received at a temperature of	of >0° C to 6.0°C	Yes	V	No 🗆	na 🗆	
6. Sample(s) in proper container(s)?		Yes	V	No 🗆		
7. Sufficient sample volume for indicated test(s)	?	Yes	V	No 🗆		
8. Are samples (except VOA and ONG) properly	preserved?	Yes	V	No 🗆		
9. Was preservative added to bottles?		Yes		No 🗹	NA 🗆	
10.VOA vials have zero headspace?		Yes		No 🗆	No VOA Vials	
11. Were any sample containers received broker	n?	Yes		No 🗹	# of preserved	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	V	No 🗆	= 7, 2 1000000	>12 unless noted)
13. Are matrices correctly identified on Chain of	Custody?	Yes	V	No 🗆	Adjusted?	
14. Is it clear what analyses were requested?		Yes	200	No 🗆	20	
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes	$ \mathbf{\nabla} $	No 🗆	Checked by:	
Special Handling (if applicable)						
16. Was client notified of all discrepancies with t	his order?	Yes		No 🗆	NA 🗹	
Person Notified:	Date			A STATE OF THE STA		
By Whom:	Via:	☐ eN	Iall [] Phone 🔲 Fax	☐ In Person	
Regarding:				artini Nasa and Andrews	-0.64	
Client Instructions:						J
17. Additional remarks:						
18. Cooler Information Cooler No Temp °C Condition S 1 1.0 Good Ye		Seall	Date 	Signed By	1 .	
D 1.61		. -				

A.	RY								N 10	Y) 8	Air Bubble				7	1	7	-		1	7	1	1			
HALL ENVIRONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analys	lno eell	gss)D	(G:3)	97 + 8310 1.81 1.40 (1.40 (HAC (HAC (HAC (HAC (HAC (HAC (HAC (HAC	HE SE	BTEX + Mathorn PTPH (Methorn (PNA) And (PNA) And (PNA) Andons (F, 8081 Pestil 8260B (VC) 8250 (Semi	×	×	× :	×	×	×							Remarks: Anions: Chloride only. PAGE 10F 1.	محود المراجعة المواصدة	to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
		-	Line)			21)		E'81	ئ ۱۳+	38 .	BTEX + MT							1	+					15 R 53		ofice of this pos
			n (Williams Wate	Project #:	ease		iffin	2020	Amber Griffin	0.1	HEAL No.	182-	2002	500-	THE	-005	-000					•		Regived by: Conclud 1916/16	. Date	es. This serves as n
round Time:	Rush	ë	site Water Syster		8/9/2016 Release	ager:	Amber Griffin	PO # 205-2020	Am Voc	1	Preservativ e Type	NA	NA	NA	N/A	N/A	NA							y, Conel		accredited laboratori
Turn-Around Time:	Standard	Project Name:	Dayton Town:	Project #:		Project Manager:			Sampler:	Sample Tem	Container Type and #	1-402	1-402	1-402	1-402	1 - 4 oz.	1-40Z							Regived by:	Received by:	contracted to other a
Chain-of-Custody Record	Yates Petroleum Corporation			sia, NM 88210	575-513-8799 or 575-748-4111	agriffin@yatespetroleum.com		□ Level 4 (Full Validation)			Sample Request ID	Horizontal #1	Horizontal #2	Horizontal #3	Horizontal #4	Horizontal #5	Horizontal #6							hed by:	led by:	If necessary, samples submitted to Hall Environmental may be subcontracted
of-Cus	Petroleum			105 South 4th Street Artesia, NM	575-513-	agriffin@					Matrix	44-02 Coil	11-25 Soil	11-27 Soil	11:30 Soil	11:32 Soil	11:35 Soil							Relinquished by:	Refinquished by:	y, samples subr
nain-	Yates		idress:	4th St		ax#:	kage:	5	ion:	lami	Time										_	_		тіте:	Time:	f necessar
ਹ	Client		Mailing Address:	105 South	Phone #:	email or Fax#:	QA/QC Package:	□ Standard	Accreditation:	C EDD (Type)	Date	21001010	0/13/2016	0/13/2016	0/12/2016	9/13/2016	9/13/2016							Date:	Date:	



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

November 30, 2016

Amber Griffin
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111

FAX

RE: Dayton Townsite Water System (Williams Water Line)

OrderNo.: 1611A17

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 4 sample(s) on 11/18/2016 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 qualifers 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 #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 1611A17

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/30/2016

	ates Petroleum Corpo Dayton Townsite Wate		ıms Wate	I	Lab Order: 1611A17
Lab ID: Client Sample ID:	1611A17-001 CR-25'		(e: 11/15/2016 2:45:00 PM
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	190	30	mg/Kg	Analyst: MRA 20 11/28/2016 1:21:12 PM 28872
Lab ID: Client Sample ID:	1611A17-002 CR-30'				e: 11/15/2016 2:55:00 PM x: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	190	30	mg/Kg	Analyst: MRA 20 11/28/2016 1:58:25 PM 28872
Lab ID: Client Sample ID:	1611A17-003 CR-35'				e: 11/15/2016 3:05:00 PM x: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	260	30	mg/Kg	Analyst: MRA 20 11/28/2016 2:35:39 PM 28872
Lab ID: Client Sample ID:	1611A17-004 CR-40'				e: 11/15/2016 3:18:00 PM x: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch ID
EPA METHOD 30 Chloride	0.0: ANIONS	160	30	mg/Kg	Analyst: MRA 20 11/28/2016 2:48:03 PM 28872

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

- 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 2
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1611A17

30-Nov-16

Client:

Yates Petroleum Corporation

Project:

Dayton Townsite Water System (Williams Wate

Sample ID MB-28872

Prep Date: 11/28/2016

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 28872

RunNo: 39009

Analysis Date: 11/28/2016

PQL

1.5

Analyte

Result

SeqNo: 1220081

Units: mg/Kg

HighLimit

RPDLimit

RPDLimit

Qual

Chloride

ND

SampType: Ics

TestCode: EPA Method 300.0: Anions

%REC

Client ID: LCSS Prep Date: 11/28/2016

Sample ID LCS-28872

Batch ID: 28872

RunNo: 39009

Analysis Date: 11/28/2016

SeqNo: 1220082

Units: mg/Kg

110

LowLimit HighLimit

Analyte Chloride

Result

PQL SPK value SPK Ref Val 15.00 1.5

93.4

SPK value SPK Ref Val %REC LowLimit

90

%RPD

%RPD

Qualifiers:

Sample Diluted Due to Matrix D Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit ND RPD outside accepted recovery limits R

% Recovery outside of range due to dilution or matrix

Value exceeds Maximum Contaminant Level.

B Analyte detected in the associated Method Blank

E Value above quantitation range

Analyte detected below quantitation limits J

Page 2 of 2

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified W



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

Sample Log-In Check List

Client Name:	EOG/Yates	W	fork Order Number:	1611A17		RcptNo:	1
Received by/date	de		11/18/10	D			
Logged By:	Ashley Galle	egos 11/1	8/2016 9:30:00 AM		A		
Completed By:	Ashley Galle	egos 11/1	8/2016 12:28:41 PI	М	A		
Reviewed By:	Rela	a	11/18/10		V		
Chain of Cust	ody		1-1-				
1. Custody seal	s intact on sar	mple bottles?		Yes 🗆	No []	Not Present [☑]	
2. Is Chain of C	ustody comple	ete?		Yes [V]	No [.]	Not Present [1]	
3. How was the	sample delive	ered?		Courier		eg r	
Log In							
4. Was an atter	mpt made to c	cool the samples?		Yes 🗹	No □	na []	
5. Were all sam	nples received	at a temperature of >	•0° C to 6.0°C	Yes ☐ Not reg	No 🗹	№ П	
6. Sample(s) in	proper contai	iner(s)?		Yes 🗹	No []		
7. Sufficient sar	mple volume f	or indicated test(s)?		Yes 🗸	No 🗀		
8. Are samples	(except VOA	and ONG) properly pr	eserved?	Yes 😾	No []		
9. Was preserv	ative added to	bottles?		Yes 🗌	No 🗹	NA 🗆	
10.VOA vials ha	ave zero heads	space?		Yes []	No 🗔	No VOA Vials 🚺	
11. Were any sa	ample contains	ers received broken?		Yes []	No 🗹	# of preserved	
10 Days		Wa takatan		Yes 😧	No []	bottles checked for pH:	
12. Does paperv (Note discret		ain of custody)		Yes LY	ואט ב		r >12 unless noted)
13. Are matrices	correctly iden	tified on Chain of Cus	tody?	Yes 🗸	No []	Adjusted?	
14. Is it clear wh	at analyses w	ere requested?		Yes 📝	No []	200 00 000	
15. Were all hold (If no, notify	2.77	e to be met? authorization.)		Yes 🗹	No []	Checked by:	
Special Hand	iling (if app	olicable)			500	ww.	
16. Was client n	otified of all di	screpancies with this	order?	Yes [No []	NA M	3
Person	n Notified:	*	Date	Ch. State Commission of the Co	AND THE PROPERTY OF THE PARTY O		
By Wh			Via:	eMail [_]	Phone Tax	☐ In Person	
Regar			Ventries de Lieux à de La compa	. R. San and American State of the Control of the C	AND THE SERVICE WAS A SERVICE		
Client	Instructions:						.]
17. Additional r	emarks:						
18. Cooler Info Cooler N	Carlo Hanning	Condition Seal I	ntact Seal No	Seal Date	Signed By		

Page 1 of 1

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com	Militams Water Line) 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	THE HAB'S (8021) BTEX + MTBE + TMB's (8021) BTEX + MTBE + TPH (Gas only TPH Method 8015B (Gas/Diese TPH (Method 504.1) EDB (Method 504.1) EDB (PNA or PAH)	××	-003	h00-		bothe Time Remarks: Anions: Chloride only. PAGE 1 OF 1. Analytical of by: 1 18 16 19 16 19 16 19 16 19 10 19 10 19 10 19 10 19 10 19 19
Turn-Around Time: X Standard 🗆 Rush Project Name:	Dayton Townsite Water System (Williams Water Line) Project #: 8/9/2016 Release	Project Manager: Amber Griffin PO # 205-2020 Sampler: Onfloe: Sample Temperature: Container Preservativ Type and # e Type	N/A	:			Received by: Received by: medical to other socredited laboratories
Record	88210	Level 4 (Full Validation)	CR-25	***			Joe Joseph And Franconnental may be subcoo
ain-of-Custody EOG Y Resources, Inc.	treet Artesi	e: amber griffi	2:45 Soil	2:55 Soil	3:18 Soil		Time: Relinquished by: Time: Relinquished by:
Chair Client EOK	Mailing Address: 105 South 4th Street Artesia, NM	Phone #: email or Fax#: OA/QC Package: □ Standard Accreditation: □ NELAP □ EDD (Type) □ Date Tin		11/15/2016			Date: Time: Date: Time: Time

Dayton Townsite Water System (Williams) Closure Report 2RP-3840 nAB1623631164



March 29, 2022

Appendix C NMOCD Approval Email

energy opportunity growth

Amber Griffin

From:

Amber Griffin

Sent:

Monday, December 19, 2016 7:20 AM

To:

'Bratcher, Mike, EMNRD'; Patterson, Heather, EMNRD; Weaver, Crystal, EMNRD

Subject:

RE: Dayton Townsite Water System (Williams Water Line) * 2RP-3840

Mike.

We don't have a problem with using a more robust liner or a double 20 mil liner.

Thank you, Amber

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

Sent: Thursday, December 15, 2016 2:51 PM

To: Amber Griffin; Patterson, Heather, EMNRD; Weaver, Crystal, EMNRD

Subject: RE: Dayton Townsite Water System (Williams Water Line) * 2RP-3840

** External email. Use caution.**

RE: EOG (Yates Pet per C-141) * Dayton Townsite Water System * 2RP-3840 * DOR: Discovered 8/9/16

Amber,

Your proposal for remediation of the above referenced release is approved. OCD would prefer a more robust liner be utilized, or possibly consider a double 20 mil liner, due to the elevated chloride column being left in place, and the potential existence of relatively shallow groundwater at the site. Please advise once remedial activities have been scheduled.

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

If you have any questions or concerns, and for notification, please contact me. Also, going forward, please copy Crystal Weaver on all correspondence.

Thank you,

Mike Bratcher NMOCD District 2 811 S. First St. Artesia NM 88210 575-748-1283 Ext 108 mike.bratcher@state.nm.us

From: Amber Griffin [mailto:Amber Griffin@eogresources.com]

Sent: Friday, December 9, 2016 8:36 AM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Patterson, Heather, EMNRD

< <u>Heather.Patterson@state.nm.us</u>>; Weaver, Crystal, EMNRD < <u>Crystal.Weaver@state.nm.us</u>> **Subject:** Dayton Townsite Water System (Williams Water Line) * 2RP-3840

Mike/Heather/Crystal,

Attached is a work plan for the release that occurred on the Dayton Townsite Water System (Williams Water Line), 2RP-3840

Should there be any questions, please let me know.

Thank you,

Amber Griffin

Environmental Representative EOG Resources – Artesia Division 105 S. 4th Street Artesia, NM 88210 575-748-4111 (Office) 575-513-8799 (Cell)

eog resources

Dayton Townsite Water System (Williams) Closure Report 2RP-3840 nAB1623631164



March 29, 2022

Appendix DOriginal C-141 Initial

NM O. CONSERVATION

ARTESIA DISTRICT

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

State of New Mexico Energy Minerals and Natural Resources

AUG 19 2016

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 RECEIVE appropriate District Office in RECEIVE accordance with 19.15.29 NMAC.

1220 S. St. Franc	S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505													
PAB162	B1423629683 Release Notification and Corrective Action													
NAB16						,	OPERAT	FOR		Initia	l Report		Final Report	
Name of Co	mpany		25	557	15		Contact							
Yates Petrol Address	eum Corp	oration	20	, ,	d	-	Amber Griff Celephone N							
105 S. 4th St	reet Arte	sia, NM 882	10				75-748-147							
Facility Nan							acility Typ							
Dayton Tow	nsite Wat	er System (\	Williams	Wate	r Line)	ŀ	VC Flow I	Line						
Surface Own Donald Fani	100000	Sons			Mineral Owne	Т				API No.				
					LOCATI	NO	OF REI	LEASE						
Unit Letter	Section	Township	Range	Feet		_	South Line	Feet from the	East/Y	Vest Line	County			
	25	185	26E						L		Eddy			
					Latitude <u>32.72</u>	062	2 Longitud	e <u>104.34295</u>						
					NATUR	E	OF REL							
Type of Rele Produced Wa							Volume of Unknown			Volume F	lecovered			
Source of Re	lease						Date and I	lour of Occurrence	e		Hour of Di	scovery		
PVC Flow Li Was Immedia		Gluen?					Unknown	Whom?		8/9/2016;	PM			
mas minicon	ato Honça	C// [Yes 🛭	No	☐ Not Requir	ed	If YES, To Whom? N/A							
	By Whom? N/A Date and Hour: N/A													
Was a Water	course Rea		Yes 🗵	71 No.			If YES, V	olume Impacting	the Wate	ercourse.				
			121											
Describe Car	urse was in	npacted, Desc lem and Rem	edial Action	on Tak	en.*								•	
There was a	leak on a 4	"PVC flow li	ine, Wells	in the	area were shut i	n or	nd the line w	as isolated. A cre	w was c	alled to put	a fence are	ound the	e release area.	
		out of service		ken										
The affected	area is apr	proximately 0.	3554 ncres	s in th	e pasture. The ar	ea v	vas scraped t	o remove visibly	impacted	d soils and	the soils we	re take	n to a	
NMOCD ap	proved disp Chlorides	posal facility.	Vertical ar	id hor	izontal delineatio	on si	omples have ranking is 20	been taken from () a Final Report,	the relea C-141 v	se area and vill be subr	analysis w	OCD	requesting	
closure. If th	e analytica	l results are a	bove the R	RAL	s a work plan wi	II be	e submitted t	o the OCD. Dept	h to Gre	ound Wate	r: <50' (ap	proxin	nately 35',	
per 24-18S-	26E, NMC	SE), Wellher	ad Protect	ion A	rea: No, Distant	to I	be best of m	ater Body: >100 y knowledge and	0', SITI	ERANKIN	Suant to NA	MOCD	niles and	
regulations a	Il operator	s are required	to report a	and/or	file certain relea	se n	otifications	and perform corre	ctive ac	tions for re	leases whic	h may e	endånger	
public health	or the en	vironment. Th	ne acceptar	nce of	a C-141 report b	y th	e NMOCD r	narked as "Final l tion that pose a th	Report"	does not re	lieve the op	erator o	of liability	
or the enviro	operations onment. In	addition, NM	OCD acce	ptanc	e of a C-141 rep	ort d	loes not relie	ve the operator of	respons	sibility for	compliance	with a	ny other	
		aws and/or re		i.		_								
	Ω.	<i>^</i> .						OIL CON	1SEK	VATION	DIAIDI	<u>VIO</u>		
Signature: (lmb	2 bry	Kin_			4		Cianal D	19	1.1. x		02000		
Printed Nan	ic: Amber	Griffin	/0			1	Approved b	y Environment	Speciali	W/T /	KARONICA	4		
		Representative	e				Approval D	ate: 8 23	16	Expiration	Date: A	/A		
E-mail Add	ress: ngrif	fin@lyatespetr	roleum,con	<u>n</u>		_	Conditions Remed	of Approval: lation per O.	C.D. R	ules & G	iu del Me	9 D		
Date: Augu	ost 19, 201	6	P	hone:	575-748-4111		SUBMI	T REMEDIAT	ION P	ROPOS				
		neets If Nece	ecoru				LATER	THAN: al	15	110		00		

Dayton Townsite Water System (Williams) Closure Report 2RP-3840 nAB1623631164



March 29, 2022

Appendix EOriginal C-141 Final

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

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Santa Fe, NM 87505 Santa Fe, NM 87505														
			Releas	e Notific	ication and Corrective Action									
						OPERA'	ГOR		☐ Initia	al Report	\boxtimes	Final	Report	
Name of Co					(Contact				•			•	
EOG Y Res	ources, In	c.				Amber Grif								
Address	traat Arta	sia, NM 882	10			Felephone 1 575-748-14								
Facility Nar		sia, inivi ooz.	10			Facility Typ								
300		ter System (V	Williams Wat	ter Line)	100	PVC Flow 1								
Surface Ow	mer			Mineral O	wner				API No	1				
Donald Fan		Sons		141morar O	WHOI				7117110	•				
				LOCA	TION	OF RE	LEASE							
Unit Letter	Section	Township	Range Fe	et from the		South Line	Feet from the	East/W	Vest Line	County				
	25	18S	26E							Eddy				
				Latitude 3	2.72062	2062 Longitude 104.34295								
	NATURE OF RELE													
	Type of Release						Release			Recovered				
	Produced Water Source of Release						B/PW Hour of Occurrence	e	1 B/PW Date and	Hour of Dis	covery	tii		
	PVC Flow Line								8/9/2016;					
Was Immedi	ate Notice		Yes 🛛 N	o	equired	If YES, To Whom?								
By Whom?	N/A		1 103 M	o 🔲 Not Ko	quired	Date and I	Jour N/A							
Was a Water		ched?				The state of the s	olume Impacting t	the Wate	ercourse.					
			Yes 🛛 N	0										
		npacted, Descr												
Describe Cau	use of Probl	lem and Reme	dial Action Ta	aken.*	hut in or	d the line w	as isolated. A cre-	w was ca	alled to nut	t a fence aro	und the	release	e area	
		out of service.		ie alea wele si	nut ni an	id the file wa	is isolated. A cic	w was ca	inca to par	a rence are	and the	release	J arcu.	
		and Cleanup							., .,	d 1	. 1			
The affected	area is app	roximately 0.3	3554 acres in t Jertical and ho	he pasture. Th orizontal delin	ie area w eation sa	vas scraped to	o remove visibly i been taken from t	mpacted he releas	soils and	analysis wei	e takei Il be ru	n to a n for Tl	PH.	
BTEX, and (Chlorides.	If initial analyt	tical results ar	e under RRAI	's (site	ranking is 20) a Final Report,	C-141 w	ill be subn	nitted to the	OCD r	equesti	ng	
closure. If th	e analytical	results are ab	ove the RRAI	's a work plan	n will be	submitted to	the OCD. Depth	to Gro	und Wate	r: <50' (app	roxim	ately 3	5',	
							ater Body: >1000)', SITE	RANKIN	(G 18 20. EC	JG Y I	request	S	
closure as all work has been completed as per previously NMOCD I hereby certify that the information given above is true and complete to						he best of my	knowledge and u	ınderstar	nd that pur	suant to NM	OCD 1	ules an	d	
regulations all operators are required to report and/or file certain release						otifications a	nd perform correct	ctive acti	ions for rel	leases which	may e	ndange	r	
public health or the environment. The acceptance of a C-141 report should their operations have failed to adequately investigate and rem						e NMOCD n	narked as "Final R	Report" d	loes not rel	lieve the ope	rator o	f liabili	ty	
should their	operations l	have failed to	adequately inv	vestigate and r	emediat	e contaminat	ion that pose a thi	reat to gr	ound wate	r, surface wa	ater, hu	ıman he	ealth	
or the enviro	onment. In	addition, NIVIC	oco acceptan	ce of a C-141	report a	eport does not relieve the operator of responsibility for compliance with any other								
rederai, state	^	and of reg	diditions.			OIL CONSERVATION DIVISION								
G:	Inch	() -	11:0				ē.							
Signature:		er O/w	16hr		Approved by Environmental Specialist:									
Printed Nam	e: Amber (Griffin	0-			Approved by Environmental Speciali				planst.				
Title: Rep Safety & Environmental II						Approval Date: Exp			Expiration Date:					
	F. FREP.						Conditions of Approval:							
D-man Addi	-mail Address: amber_griffin@eogresources.com						Conditions of Approval:							

2RP-3840

Phone: 575-748-4111

* Attach Additional Sheets If Necessary

Date: April 3, 2017

Charled: Nmoch Cheleised to Maging: 18/2/2022-9:15:31/M/17 Az Dayton Townsite Water System (Williams) Closure Report 2RP-3840 nAB1623631164



March 29, 2022

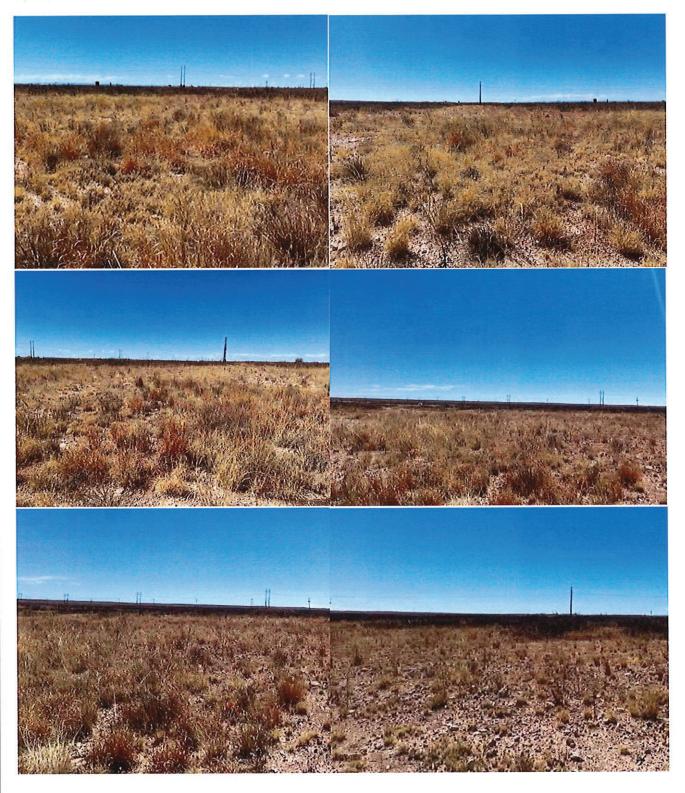
Photos

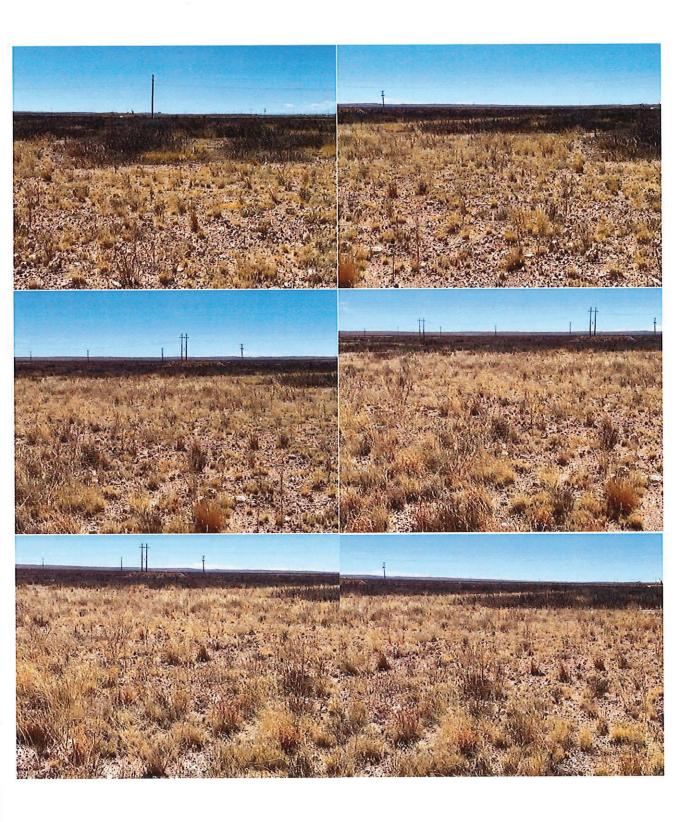
2017 Pictures



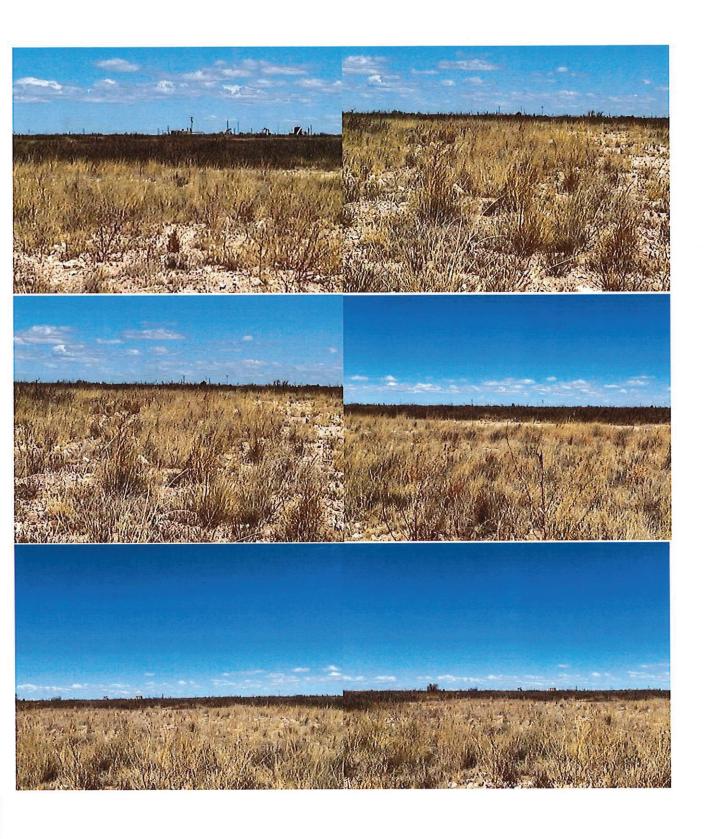


2022 Pictures









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

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

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

CONDITIONS

Action 94092

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	94092
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Crea	Condition	Condition
Ву		Date
bha	None	11/2/2022