MARTIN YATES, III 1912-1985 FRANK W. YATES 1936-1986

> S.P YATES 1914-2008



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

www.yatespetroleum.com

Mr. Mike Bratcher/Mrs. Heather Patterson NMOCD District II 811 S. First St. Artesia, NM 88210

Re:

Dayton Water Line (Gushwa DX #1)

30-015-21703

August 17, 2015

Section 21, T18S-R26E Eddy County, New Mexico

Mr. Bratcher/Mrs. Patterson,

Yates Petroleum Corporation is submitting the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 report dated February 18, 2015.

If there are no objections with the scope of work described in the plan, Yates will have a contractor begin work on or after September 1, 2015.

If you have any questions, feel free to call me at (575) 748-4171

Thank you.

YATES PETROLEUM CORPORATION

Chase Settle **Environmental Regulatory Agent**

Enclosure(s)

JOHN A. YATES

JOHN A. YATES JR.

DOUGLAS E. BROOKS PRESIDENT CHIEF EXECUTIVE OFFICER

JOHN D. PERINI

EXECUTIVE VICE PRESIDENT CHIEF FINANCIAL OFFICER

JAMES S. BROWN CHIEF OPERATING OFFICER

Yates Petroleum Corporation

Dayton Water Line (Gushwa DX #1) Work Plan

Section 21, T18S-R26E

Eddy County, New Mexico

August 17, 2015

2RP-2824

I. Location

The release is located approximately 8 miles south of Artesia, 0.5 mile east on Dayton Road, and 0.7 mile north.

II. Background

On February 18, 2015, Yates Petroleum Corporation submitted to the NMOCD District II office a Form C-141 for the release of 5400 B/PW with 5160 B/PW recovered. The total affected area is approximately 1000 feet by 230 feet on the west side of the railroad tracks running northeast from the south, 705 feet by 90 feet on the east side of the railroad tracks running to the north with 2 fingers splitting off to the east, one approximately 395 feet by 50 feet and the other 595 feet by 75 feet. The release was from failure of a six (6) inch produced water flow line. Initial delineation samples were taken (3/10/2015 and 3/11/2015) and sent to a NMOCD approved laboratory (3/18/2015 and 3/19/2015, results enclosed). Further sampling was conducting (4/2/2015) and sent to a NMOCD approved laboratory (4/14/2015, results enclosed). Sampling again occurred in the S1 area for further delineation of chlorides (4/22/2015) and sent to a NMOCD approved laboratory (4/28/2015, results enclosed). Full delineation of the S1 release area was impracticable due to the extremely hard soil encountered at 15.5' below surface level and the maximum depth the backhoe could sample without increasing the chances for cross contamination. A line graph is enclosed displaying a trend line that was created using the analytical data of attained soil samples that portrays the estimated depth where chlorides will drop below 250 ppm.

III. Surface and Ground Water

Area surface geology ranges from Cenozoic Quaternary to Paleozoic Permian. The ChevronTexaco Trend Map displays at this location (Section 21, T18S-R26E) that depth to groundwater is approximately 75' feet making the site ranking for this site a ten (10). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is ten (10) based on the as following:

Depth to ground water 50' - 99'
Wellhead Protection Area > 1000'
Distance to surface water body > 1000'

IV. Soils

The area consists of soils that are loamy top soil with clay then caliche found beneath, providing a low permeability barrier to retard vertical percolation of contaminants into the subsurface.

V. Scope of Work

Based on enclosed analytical results, the depth to groundwater (75'), and a decrease in chlorides, Yates Petroleum Corporation will excavate five (5) feet of impacted soil within the S2 release area and two (2) feet in the S3 and S4 release areas, hauling the excavated soils to a NMOCD approved facility. Yates Petroleum Corporation will then backfill the excavated areas with similar soils. Yates Petroleum Corporation will also excavate four (4) feet in the S1 release area, hauling the excavated soils to a NMOCD approved facility. Yates Petroleum Corporation will then install a 20 ml liner over the release area and backfill with two (2) feet of caliche and two (2) feet of like, similar topsoil allowing for vegetative repopulation of the disturbed area and protection from groundwater contamination. No work will be performed in the Right of Way of the railroad per their request with concerns for railway safety in mind. The TPH & BTEX are within the RRAL's for BTEX (50 ppm) and TPH (1000 ppm) for the Total Ranking Score of ten (10), no further analytical testing of TPH and/or BTEX will be conducted (all chloride analytical results are for documentation). When remediation work is completed a C-141, Final Report, will be submitted to the NMOCD requesting closure of the site.

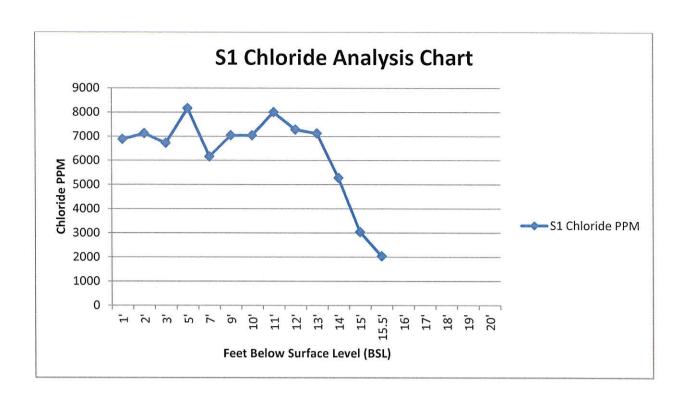


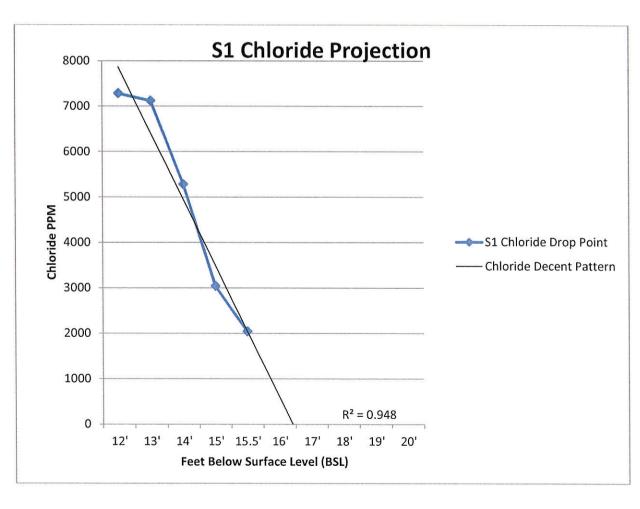


Dayton Water Line (Gushwa DX #1)

Area	Analysis #	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO I	Chlorides
RR1-1'	H500695	Release Area	3/10/2015	Hand Auger		<0.3	<10.0	<10.0	5440
RR1-2'	H500695	Release Area	3/10/2015	Hand Auger	2'	< 0.3	<10.0		5440
RR1-3'	H500695	Release Area	3/10/2015	Hand Auger	3'	<0.3	<10.0	RESUMBLISHED STREET	5680
RR2-1'	H500695	Release Area	3/10/2015	Hand Auger	1'	<0.3	<10.0	HEREROLD REPORT OF THE PERSON NAMED IN	5440
RR2-2'	H500695	Release Area	3/10/2015	Hand Auger	2'	<0.3	<10.0		3080
RR3-1'	H500695	Release Area	3/10/2015	Hand Auger	1'	<0.3	<10.0		7040
RR3-2'	H500695	Release Area	3/10/2015	Hand Auger	2'	<0.3	<10.0	REPORTED HOUSE STREET	3480
RR3-3'	H500695	Release Area	3/10/2015	Hand Auger	3'	<0.3	<10.0	BERTAIN BARBOCK BOOKS SEPTER	1680
RR4-1'	H500695	Release Area	3/10/2015	Hand Auger	1'	<0.3	<10.0	HEST HANDS SHOW THE REAL PROPERTY.	6000
RR4-2'	H500695	Release Area	3/10/2015	Hand Auger	2'	<0.3	<10.0	<10.0	3360
RR5-1'	H500694	THE RESIDENCE OF THE PARTY OF T	3/10/2015		1'	TOTAL PURPLE SHEET IN SHEET SHEET		RESIDENTIAL STREET, NO. 10 P. LEWIS CO., LANSING MICH.	
RR5-2'	H500694	Release Area		Hand Auger		0.549	<10.0		7040
		Release Area	3/10/2015	Hand Auger	2'	2.61	<10.0		8640
RR6-1'	H500694	Release Area	3/10/2015	Hand Auger	1	<0.3	<10.0		6160
RR6-2'	H500694	Release Area	3/10/2015	Hand Auger	2'	<0.3	<10.0	<10.0	1150
RR7-1'	H500694	Release Area	3/10/2015	Hand Auger	1'	<0.3	<10.0	<10.0	4960
RR8-1'	H500694	Release Area	3/10/2015	Hand Auger	1'	<0.3	<10.0	<10.0	5840
RR8-2'	H500694	Release Area	3/10/2015	Hand Auger	2'	<0.3	<10.0	<10.0	4720
S1-1'	H500697	Release Area	3/11/2015	Hand Auger	1'	<0.3	<10.0	<10.0	6880
S1-2'	H500697	Release Area	3/11/2015	Hand Auger	2'	<0.3	<10.0	<10.0	7120
S1-3'	H500938	Release Area	4/2/2015	Backhoe	3'	N/A	N/A	N/A	6720
S1-5'	H500938	Release Area	4/2/2015	Backhoe	5'	N/A	N/A	N/A	8160
S1-7'	H500938	Release Area	4/2/2015	Backhoe	7'	N/A	N/A	N/A	6160
S1-9	H500938	Release Area	4/2/2015	Backhoe	9'	N/A	N/A	N/A	7040
S1-10'	H501074	Release Area	4/22/2015	Backhoe	10'	N/A	N/A	N/A	7040
S1-11'	H501074	Release Area	4/22/2015	Backhoe	11'	N/A	N/A	N/A	8000
S1-12'	H501074	Release Area	4/22/2015	Backhoe	12'	N/A	N/A	N/A	7280
S1-13'	H501074	Release Area	4/22/2015	Backhoe	13'	N/A	N/A	N/A	7120
51-14'	H501074	Release Area	4/22/2015	Backhoe	14'	N/A	N/A	N/A	5280
S1-15 [']	H501074	Release Area	4/22/2015	Backhoe	15'	N/A	N/A	N/A	3040
S1-15.5	H501074	Release Area	4/22/2015	Backhoe	15.5'	N/A	N/A	N/A	2040
S2-1'	H500697	Release Area	3/11/2015	Hand Auger	1'	<0.3	<10.0	<10.0	8000
S2-2'	H500697	Release Area	3/11/2015	Hand Auger	2'	<0.3	<10.0	86.6	12300
S2-3'	H500938	Release Area	4/2/2015	Backhoe	3'	N/A	N/A	N/A	10100
S2-5'	H500938	Release Area	4/2/2015	Backhoe	5'	N/A	N/A	N/A	4240
S2-7'	H500938	Release Area	4/2/2015	Backhoe	7'	N/A	N/A	N/A	240
52-9'	H500938	Release Area	4/2/2015	Backhoe	9'	N/A	N/A	N/A	192
S3-1'	H500697	CHARLES NAPED BY COMPANY OF CHARLES	3/11/2015		1'	A CONTRACTOR OF THE OWNER.	EUGENE STATE OF THE STATE OF TH		
53-2'	H500697	Release Area	3/11/2015	Hand Auger	2'	<0.3	<10.0	<10.0	6720
S3-3'	H500938	Release Area	4/2/2015	Hand Auger	3'		<10.0	<10.0	4400
S3-5'		Release Area		Backhoe		N/A	N/A	N/A	384
	H500938	Release Area	4/2/2015	Backhoe	5'	N/A	N/A	N/A	32
\$3-7'	H500938	Release Area	4/2/2015	Backhoe	7'	N/A	N/A	N/A	144
\$3-9	H500938	Release Area	4/2/2015	Backhoe	9'	N/A	N/A	N/A	<16.0
S4-1'	H500697	Release Area	3/11/2015	Hand Auger	1'	<0.3	<10.0	<10.0	4560
\$4-2'	H500697	Release Area	3/11/2015	Hand Auger	2'	<0.3	<10.0	<10.0	2560
S4-3'	H500938	Release Area	4/2/2015	Backhoe	3'	N/A	N/A	N/A	704
\$4-5'	H500938	Release Area	4/2/2015	Backhoe	5'	N/A	N/A	N/A	128
S4-7'	H500938	Release Area	4/2/2015	Backhoe	7'	N/A	N/A	N/A	<16.0
\$4-9'	H500938	Release Area	4/2/2015	Backhoe	9'	N/A	N/A	N/A	<16.0
	5	ite Ranking is 1	en (10) 50-90	1' (75' Section	21 T185-E	DEE Tr	end Ma	n	

Site Ranking is Ten (10). 50-99' (75', Section 21, T18S-R26E, Trend Map All results are ppm. Chlorides for documentation Released: 5400 B/PW; Recovered: 5160 B/PW Release Date: 02/5/2015







March 19, 2015

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: DAYTON WATER LINE

Enclosed are the results of analyses for samples received by the laboratory on 03/13/15 11:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celes D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received:

03/13/2015

Sampling Date:

03/10/2015

Reported:

03/19/2015

Sampling Type:

Soil

Project Name:

DAYTON WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

205-0750

Sample Received By:

Celey D. Keene

Project Location:

GUSHWA DX #1

Sample ID: RR 1 - 1' (H500695-01)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2015	ND	2.11	105	2.00	4.32	
Toluene*	<0.050	0.050	03/17/2015	ND	1.93	96.6	2.00	3.26	
Ethylbenzene*	<0.050	0.050	03/17/2015	ND	1.85	92.6	2.00	5.80	
Total Xylenes*	<0.150	0.150	03/17/2015	ND	5.51	91.9	6.00	7.24	
Total BTEX	<0.300	0.300	03/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 %	6 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	03/16/2015	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/16/2015	ND	177	88.5	200	1.87	
DRO >C10-C28	<10.0	10.0	03/16/2015	ND	185	92.5	200	4.47	
Surrogate: 1-Chlorooctane	82.5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	89.9	% 52.1-170	6						

Cardinal Laboratories

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Celay & Krema-



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

03/13/2015

Sampling Date:

03/10/2015

Reported:

03/19/2015

Sampling Type:

Soil

Project Name:

DAYTON WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

205-0750

Sample Received By:

Celey D. Keene

Project Location:

GUSHWA DX #1

Sample ID: RR 1 - 2' (H500695-02)

BTEX 8021B	mg/kg		Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2015	ND	2.11	105	2.00	4.32	
Toluene*	<0.050	0.050	03/17/2015	ND	1.93	96.6	2.00	3.26	
Ethylbenzene*	<0.050	0.050	03/17/2015	ND	1.85	92.6	2.00	5.80	
Total Xylenes*	< 0.150	0.150	03/17/2015	ND	5.51	91.9	6.00	7.24	
Total BTEX	<0.300	0.300	03/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 %	6 61-154							
Chloride, SM4500CI-B		kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	03/17/2015	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/16/2015	ND	177	88.5	200	1.87	
DRO >C10-C28	<10.0	10.0	03/16/2015	ND	185	92.5	200	4.47	
Surrogate: 1-Chlorooctane	84.1 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	91.0	% 52.1-17	6						

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Celley & Keene



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 (505) 748-4635

Fax To:

Received:

03/13/2015

Sampling Date:

03/10/2015

Reported:

03/19/2015

Sampling Type:

Soil

Project Name:

DAYTON WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

205-0750

Sample Received By:

Celey D. Keene

Project Location:

GUSHWA DX #1

Sample ID: RR 1 - 3' (H500695-03)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2015	ND	2.11	105	2.00	4.32	
Toluene*	< 0.050	0.050	03/17/2015	ND	1.93	96.6	2.00	3.26	
Ethylbenzene*	<0.050	0.050	03/17/2015	ND	1.85	92.6	2.00	5.80	
Total Xylenes*	<0.150	0.150	03/17/2015	ND	5.51	91.9	6.00	7.24	
Total BTEX	<0.300	0.300	03/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 %	61-154							
Chloride, SM4500Cl-B mg/		kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	03/17/2015	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	
Surrogate: 1-Chlorooctane	90.1	% 47.2-15	7				N. C.		
Surrogate: 1-Chlorooctadecane	91.0	% 52.1-17	6						

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*=Accredited Analyte

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Celes Ditreme -



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received:

03/13/2015

Sampling Date:

03/10/2015

Reported:

03/19/2015

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

Project Number:

DAYTON WATER LINE 205-0750

Sample Received By:

Celey D. Keene

Project Location:

GUSHWA DX #1

Sample ID: RR 2 - 1' (H500695-04)

BTEX 8021B	mg/kg		Analyzed By: ms						The state of the s
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2015	ND	2.11	105	2.00	4.32	
Toluene*	<0.050	0.050	03/17/2015	ND	1.93	96.6	2.00	3.26	
Ethylbenzene*	<0.050	0.050	03/17/2015	ND	1.85	92.6	2.00	5.80	
Total Xylenes*	<0.150	0.150	03/17/2015	ND	5.51	91.9	6.00	7.24	
Total BTEX	<0.300	0.300	03/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 %	6 61-154	6						7709 ()
Chloride, SM4500Cl-B	Chloride, SM4500CI-B mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	03/17/2015	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	
Surrogate: 1-Chlorooctane	90.9	% 47.2-15	7			A			
Surrogate: 1-Chlorooctadecane	91.6	% 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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Celing D. treene



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received: Reported: 03/13/2015

DAYTON WATER LINE

Project Number: Project Location:

Project Name:

205-0750 GUSHWA DX #1

03/19/2015

Sampling Condition: Sample Received By:

Sampling Date:

Sampling Type:

03/10/2015 Soil Cool & Intact

Celey D. Keene

Sample ID: RR 2 - 2' (H500695-05)

BTEX 8021B	mg/kg		Analyze	Analyzed By: ms			in History		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2015	ND	2.11	105	2.00	4.32	
Toluene*	<0.050	0.050	03/17/2015	ND	1.93	96.6	2.00	3.26	
Ethylbenzene*	<0.050	0.050	03/17/2015	ND	1.85	92.6	2.00	5.80	
Total Xylenes*	<0.150	0.150	03/17/2015	ND	5.51	91.9	6.00	7.24	
Total BTEX	<0.300	0.300	03/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 %	6 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	03/17/2015	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	
Surrogate: 1-Chlorooctane	88.1 9	% 47.2-15	7			=			
Surrogate: 1-Chlorooctadecane	91.2 9	% 52,1-17	6						

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*=Accredited Analyte

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Celey & Krene -



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Fax

Received: Reported: 03/13/2015

03/19/2015

Project Name: Project Number: DAYTON WATER LINE

Project Location:

205-0750

GUSHWA DX #1

97.1%

52.1-176

Sampling Date:

Sample Received By:

Sampling Type:

Sampling Condition:

Cool & Intact

03/10/2015

Soil

Celey D. Keene

Sample ID: RR 3 - 1' (H500695-06)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2015	ND	2.11	105	2.00	4.32	
Toluene*	<0.050	0.050	03/17/2015	ND	1.93	96.6	2.00	3.26	
Ethylbenzene*	<0.050	0.050	03/17/2015	ND	1.85	92.6	2.00	5.80	
Total Xylenes*	<0.150	0.150	03/17/2015	ND	5.51	91.9	6.00	7.24	
Total BTEX	<0.300	0.300	03/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 9	% 61-154	· · · · · · · · · · · · · · · · · · ·						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AP						Herekin was dan
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7040	16.0	03/17/2015	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	
Surrogate: 1-Chlorooctane	86.0	% 47.2-15	7						

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Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celeg & Krene-



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

03/13/2015

Sampling Date:

03/10/2015

Reported:

03/19/2015

Sampling Type:

Soil

Project Name:

DAYTON WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

205-0750

Sample Received By:

Celey D. Keene

Project Location:

GUSHWA DX #1

Sample ID: RR 3 - 2' (H500695-07)

BTEX 8021B	mg/kg		Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2015	ND	2.11	105	2.00	4.32	
Toluene*	<0.050	0.050	03/17/2015	ND	1.93	96.6	2.00	3.26	
Ethylbenzene*	<0.050	0.050	03/17/2015	ND	1.85	92.6	2.00	5.80	
Total Xylenes*	<0.150	0.150	03/17/2015	ND	5.51	91.9	6.00	7.24	
Total BTEX	<0.300	0.300	03/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 %	61-154							
Chloride, SM4500Cl-B mg/kg		kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	03/17/2015	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	
Surrogate: 1-Chlorooctane	85.7	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	84.2	% 52.1-17	6						

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*=Accredited Analyte

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Celeg & Frene -



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received: Reported: 03/13/2015

00/10/2015

03/19/2015 DAYTON WATER LINE

Project Name: Project Number:

205 0750

Project Location:

205-0750 GUSHWA DX #1 Sampling Date:

03/10/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: RR 3 - 3' (H500695-08)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2015	ND	2.11	105	2.00	4.32	
Toluene*	<0.050	0.050	03/17/2015	ND	1.93	96.6	2.00	3.26	
Ethylbenzene*	<0.050	0.050	03/17/2015	ND	1.85	92.6	2.00	5.80	
Total Xylenes*	<0.150	0.150	03/17/2015	ND	5.51	91.9	6.00	7.24	
Total BTEX	<0.300	0.300	03/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 %	6 61-154							***************************************
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	03/17/2015	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	
Surrogate: 1-Chlorooctane	88.0 9	% 47.2-15	7					17	
Surrogate: 1-Chlorooctadecane	85.6	% 52.1-17	6						

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Celey D. Krene



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

03/13/2015

Sampling Date:

03/10/2015

Reported:

03/19/2015

Sampling Type:

Soil

Project Name:

DAYTON WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

205-0750

Sample Received By:

Celey D. Keene

Project Location:

GUSHWA DX #1

Sample ID: RR 4 - 1' (H500695-09)

BTEX 8021B	mg/kg		Analyzed By: ms				·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2015	ND	2.17	109	2.00	5.29	
Toluene*	0.066	0.050	03/18/2015	ND	1.99	99.3	2.00	4.00	
Ethylbenzene*	<0.050	0.050	03/18/2015	ND	1.91	95.3	2.00	6.10	
Total Xylenes*	<0.150	0.150	03/18/2015	ND	5.69	94.9	6.00	7.55	
Total BTEX	<0.300	0.300	03/18/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.3	% 61-154	α			***************************************			
Chloride, SM4500CI-B	nloride, SM4500CI-B mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	03/17/2015	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	
Surrogate: 1-Chlorooctane	86.3	% 47.2-15?	7						
Surrogate: 1-Chlorooctadecane	92.8	% 52.1-170	5						

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Celeg & Kune



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

, ,

Received: 03/13/2015 Reported: 03/19/2015

Project Name: DAYTON WATER LINE
Project Number: 205-0750

Project Location: GUSHWA DX #1

Sampling Date:

03/10/2015

Sampling Type: Soil Sampling Condition: Cool

Cool & Intact

Sample Received By: Celey D. Keene

Sample ID: RR 4 - 2' (H500695-10)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2015	ND	2.17	109	2.00	5.29	
Toluene*	<0.050	0.050	03/18/2015	ND	1.99	99.3	2.00	4.00	
Ethylbenzene*	<0.050	0.050	03/18/2015	ND	1.91	95.3	2.00	6.10	
Total Xylenes*	< 0.150	0.150	03/18/2015	ND	5.69	94.9	6.00	7.55	
Total BTEX	<0.300	0.300	03/18/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.4	% 61-154							
chloride, SM4500CI-B mg/kg		Analyze	d By: AP				-		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	03/17/2015	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	
Surrogate: 1-Chlorooctane	80.6	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	88.1	% 52.1-17	6						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey & Kreene -

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST 🚨 👌

Project Name:		
Dayton Water Line (
(Gushwa		

(505) 393-2326 FAX (505) 393-2476

Project Name:

S

Page 13 of 13

Project #:

Project Loc: Dayton Water

Line

Gushwa

DX #1)

PO#: 205-0750

x Standard TRRP **NPDES**

Report Format:

csettle@yatespetroleum.com TOTAL TCLP: yze For

NaOH Na₂S₂O₃ None Other (Specify) DW=Drinking Water SL=Sludge Matrix S S S S S S S S S GW = Groundwater S=Soil/Solid S NP=Non-Potable Specify Other × × × × × × × × TPH: × 418.1 8015M 8015B TPH: TX 1005 TX 1006 Laboratory Comments: Cations (Ca. Mg, Na, K) Anions (CI, SO4, Alkalinity) SAR/ESP/CEC Metals: As Ag Ba Cd Cr Pb Hg Se Volatiles Semivolatiles × × × × × × × × × BTEX 8021B/5030 or BTEX 8260 × RCI N.O.R.M × × × × × × × Chlorides × SAR RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

9:20 AM

9:10 AM

10:15 AM 10:30 AM

9:30 AM

ly)	(lab use only) ORDER #:							Re	2
	e#: #5006°	Sampler Signature:	Telephone No:	City/State/Zip:	Company Address:	Compi (505) 393-2320	Project Manager:	ARDINAL LA 101 East Maria	-

Artesia, NM 88210

105 South 4th Street

575-748-4171

Fax No:

575-748-4131

e-mail:

Yates Petroleum Corporation

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

ield Filtered Total #. of Containers

RR1-3'

RR2-1

RR1-2"

RR1-1

RR2-2"

AB # (lab use on

3-13-15 Date Date ime

Time

Received by:

Received by ELOT:

Date

ime

Relinquished by:

Relinquished by:

Special Instructions:

RR4-2" RR4-1' RR3-3' RR3-2 RR3-1'

3/10/2015 3/10/2015 3/10/2015 3/10/2015 3/10/2015 3/10/2015 3/10/2015 3/10/2015 3/10/2015 3/10/2015

1:05 PM

11:45 AM 12:45 PM

× × × × × × × × × Ice HNO. HCI H2SO4

11:30 AM 11:15 AM

Time

Date

Temperature Upon Receipt: Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS

റ്

ZZZZZZZ

Time

Sample Containers Intact? VOCs Free of Headspace?

×

× ×

××

Time

Custody seals on cooler(s) Labels on container(s)
Custody seals on container(s)



March 18, 2015

CHASE SETTLE
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: DAYTON WATER LINE

Enclosed are the results of analyses for samples received by the laboratory on 03/13/15 11:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.qov/field/qa/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received:

03/13/2015

Sampling Date:

03/10/2015

Reported:

03/18/2015

Sampling Type:

Soil

Project Name:

DAYTON WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

205-0750

Project Location:

GUSHWA DX #1

Sample Received By:

Celey D. Keene

Sample ID: RR 5 - 1' (H500694-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.271	0.050	03/17/2015	ND	2.11	105	2.00	4.32	
Toluene*	0.278	0.050	03/17/2015	ND	1.93	96.6	2.00	3.26	
Ethylbenzene*	<0.050	0.050	03/17/2015	ND	1.85	92.6	2.00	5.80	
Total Xylenes*	< 0.150	0.150	03/17/2015	ND	5.51	91.9	6.00	7.24	
Total BTEX	0.549	0.300	03/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 %	6 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7040	16.0	03/16/2015	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/16/2015	ND	177	88.5	200	1.87	
DRO >C10-C28	<10.0	10.0	03/16/2015	ND	185	92.5	200	4.47	
Surrogate: 1-Chlorooctane	88.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	94.8	% 52.1-17	6						

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Celey & Kreens



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

03/13/2015

Sampling Date:

03/10/2015

Reported:

03/18/2015

Sampling Type:

Soil

Project Name:

DAYTON WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

205-0750

Sample Received By:

Celey D. Keene

Project Location:

GUSHWA DX #1

Sample ID: RR 5 - 2' (H500694-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	1.53	0.050	03/17/2015	ND	2.11	105	2.00	4.32	
Toluene*	0.970	0.050	03/17/2015	ND	1.93	96.6	2.00	3.26	
Ethylbenzene*	0.111	0.050	03/17/2015	ND	1.85	92.6	2.00	5.80	
Total Xylenes*	<0.150	0.150	03/17/2015	ND	5.51	91.9	6.00	7.24	
Total BTEX	2.61	0.300	03/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.9 9	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	8640	16.0	03/16/2015	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	03/16/2015	ND	177	88.5	200	1.87	
DRO >C10-C28	<10.0	10.0	03/16/2015	ND	185	92.5	200	4.47	
Surrogate: 1-Chlorooctane	94.8	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	100 9	6 52.1-17	6						

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Celing D. trung



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

03/13/2015

03/10/2015

Reported:

03/18/2015

Sampling Date: Sampling Type:

Soil

Project Name:

DAYTON WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

205-0750

Sample Received By:

Celey D. Keene

Project Location:

GUSHWA DX #1

Sample ID: RR 6 - 1' (H500694-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms			Over the Contract of the Contr		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2015	ND	2.11	105	2.00	4.32	
Toluene*	<0.050	0.050	03/17/2015	ND	1.93	96.6	2.00	3.26	
Ethylbenzene*	<0.050	0.050	03/17/2015	ND	1.85	92.6	2.00	5.80	
Total Xylenes*	<0.150	0.150	03/17/2015	ND	5.51	91.9	6.00	7.24	
Total BTEX	<0.300	0.300	03/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	61-154				W-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6160	16.0	03/16/2015	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/16/2015	ND	177	88.5	200	1.87	
DRO >C10-C28	<10.0	10.0	03/16/2015	ND	185	92.5	200	4.47	
Surrogate: 1-Chlorooctane	88.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	97.0	% 52.1-17	6						

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Celing thema-



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

03/13/2015

Sampling Date:

03/10/2015

Reported:

03/18/2015

Sampling Type:

Soil

Project Name:

DAYTON WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

205-0750

Sample Received By:

Celey D. Keene

Project Location:

GUSHWA DX #1

Sample ID: RR 6 - 2' (H500694-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms					-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/17/2015	ND	2.11	105	2.00	4.32	
Toluene*	<0.050	0.050	03/17/2015	ND	1.93	96.6	2.00	3.26	
Ethylbenzene*	<0.050	0.050	03/17/2015	ND	1.85	92.6	2.00	5.80	
Total Xylenes*	<0.150	0.150	03/17/2015	ND	5.51	91.9	6.00	7.24	
Total BTEX	<0.300	0.300	03/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	61-154	7					A	
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	03/16/2015	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	03/16/2015	ND	177	88.5	200	1.87	
DRO >C10-C28	<10.0	10.0	03/16/2015	ND	185	92.5	200	4.47	
Surrogate: 1-Chlorooctane	92.5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	101 9	% 52.1-17	6						

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Celeg & Krene



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received: Reported: 03/13/2015

03/18/2015

DAYTON WATER LINE

Project Number: Project Location:

Project Name:

205-0750 GUSHWA DX #1 Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

03/10/2015

Sample ID: RR 7 - 1' (H500694-05)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2015	ND	2.11	105	2.00	4.32	
Toluene*	<0.050	0.050	03/17/2015	ND	1.93	96.6	2.00	3.26	
Ethylbenzene*	<0.050	0.050	03/17/2015	ND	1.85	92.6	2.00	5.80	
Total Xylenes*	<0.150	0.150	03/17/2015	ND	5.51	91.9	6.00	7.24	
Total BTEX	<0.300	0.300	03/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 %	6 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	03/16/2015	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/16/2015	ND	177	88.5	200	1.87	
DRO >C10-C28	<10.0	10.0	03/16/2015	ND	185	92.5	200	4.47	
Surrogate: 1-Chlorooctane	82.8 9	6 47.2-157	7						
Surrogate: 1-Chlorooctadecane	86.9 9	6 52.1-170	5						

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Celeg to treens -



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

03/13/2015

Sampling Date:

03/10/2015

Reported:

Soil

03/18/2015

Sampling Type:

Project Name:

DAYTON WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

205-0750

Sample Received By:

Celey D. Keene

Project Location:

GUSHWA DX #1

Sample ID: RR 8 - 1' (H500694-06)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2015	ND	2.11	105	2.00	4.32	
Toluene*	<0.050	0.050	03/17/2015	ND	1.93	96.6	2.00	3.26	
Ethylbenzene*	<0.050	0.050	03/17/2015	ND	1.85	92.6	2.00	5.80	
Total Xylenes*	<0.150	0.150	03/17/2015	ND	5.51	91.9	6.00	7.24	
Total BTEX	<0.300	0.300	03/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 %	6 61-154							-
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5840	16.0	03/16/2015	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/16/2015	ND	177	88.5	200	1.87	
DRO >C10-C28	<10.0	10.0	03/16/2015	ND	185	92.5	200	4.47	
Surrogate: 1-Chlorooctane	86.3 9	% 47.2-157	,		Thomas -				
Surrogate: 1-Chlorooctadecane	94.7 9	52.1-170	í						

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Celeg Streens-



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

03/13/2015

Reported:

03/18/2015

Project Name:

DAYTON WATER LINE

Project Number: Project Location: 205-0750

GUSHWA DX #1

Sampling Date:

03/10/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: RR 8 - 2' (H500694-07)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2015	ND	2.11	105	2.00	4.32	
Toluene*	<0.050	0.050	03/17/2015	ND	1.93	96.6	2.00	3.26	
Ethylbenzene*	<0.050	0.050	03/17/2015	ND	1.85	92.6	2.00	5.80	
Total Xylenes*	<0.150	0.150	03/17/2015	ND	5.51	91.9	6.00	7.24	
Total BTEX	<0.300	0.300	03/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 5	% 61-154	9				The second secon		
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	03/16/2015	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/16/2015	ND	177	88.5	200	1.87	
DRO >C10-C28	<10.0	10.0	03/16/2015	ND	185	92.5	200	4.47	
Surrogate: 1-Chlorooctane	87.7	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	94.4	% 52.1-17	6						

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Celey D. Krene-



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celleg & Keine

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST PS ()

Relinquished by:	Relinquished by:	Relinquished	Special		7	6	n	y	w	w	_	LAB # (lab use only)	ORDER #:	(lab use only)							6
hed by:	hed by:	ned by	Special Instructions:		RR8-2*	RR8-1'	RR7-1"	RR6-2'	RR6-1'	RR5-2'	RR5-1'	ě	*# #500	only)	Sampler Signature:	Telephone No:	City/State/Zip:	Company Address: 105 South 4th Street	Comp: (505) 393-232£ Yates Petroleum Corporation	Project Manager:	101 East Ma
		disagbon nempesir										FIELD CODE	1991	· `	e.	575-748-4171	Artesia, NM 88210	s: 105 South 4th S	32€ Yates Petroleun	Chase Settle	101 East Marland, Hobbs, NM 88240
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Time	Time	Time										Ending Depth			=						
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pera	by S by C	ody	ple o			-	╀				-	Anions (CI, SO4, Alkalinity)		TOTAL:		(S)	55				
Temperature Upon Receipt:	by Sampler/Client Rep. by Courier? UPS	Custody seals on cooler(s) Custody seals on cooler(s)	Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace?			-	-	-	-	+-	-	SAR / ESP / CEC	Co.	FP		x Standard	205-0750	Dayton		Dayton Water	
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March 19, 2015

CHASE SETTLE
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: DAYTON WATER LINE

Enclosed are the results of analyses for samples received by the laboratory on 03/13/15 11:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celes D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received:

03/13/2015

Sampling Date:

03/11/2015

Reported:

03/19/2015

Sampling Type:

Soil

Project Name:

DAYTON WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

205-0750

Project Location:

GUSHWA DX #1

Sample Received By:

Celey D. Keene

Sample ID: S 1 - 1' (H500697-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2015	ND	2.17	109	2.00	5.29	
Toluene*	0.069	0.050	03/18/2015	ND	1.99	99.3	2.00	4.00	
Ethylbenzene*	<0.050	0.050	03/18/2015	ND	1.91	95.3	2.00	6.10	
Total Xylenes*	<0.150	0.150	03/18/2015	ND	5.69	94.9	6.00	7.55	
Total BTEX	<0.300	0.300	03/18/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 61-154	pr				48		
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP		-			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6880	16.0	03/17/2015	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	
Surrogate: 1-Chlorooctane	84.7	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	96.2	% 52.1-17	6						

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Celeg to Krene-



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:

03/13/2015

Sampling Date:

03/11/2015

Reported:

03/19/2015

Sampling Type:

Soil

Project Name:

DAYTON WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

205-0750

Sample Received By:

Celey D. Keene

Project Location:

GUSHWA DX #1

Sample ID: S 1 - 2' (H500697-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2015	ND	2.17	109	2.00	5.29	
Toluene*	<0.050	0.050	03/18/2015	ND	1.99	99.3	2.00	4.00	
Ethylbenzene*	<0.050	0.050	03/18/2015	ND	1.91	95.3	2.00	6.10	
Total Xylenes*	<0.150	0.150	03/18/2015	ND	5.69	94.9	6.00	7.55	
Total BTEX	<0.300	0.300	03/18/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 %	61-154	×						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7120	16.0	03/17/2015	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	
Surrogate: 1-Chlorooctane	81.9	% 47.2-15	7	44 - 40 7 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					-
Surrogate: 1-Chlorooctadecane	93.1	% 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

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Celeg & Krene



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received:

03/13/2015

Sampling Date:

03/11/2015

Reported:

03/19/2015

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

DAYTON WATER LINE

Project Number:

205-0750

Sample Received By:

Celey D. Keene

Project Location:

GUSHWA DX #1

Sample ID: S 2 - 1' (H500697-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2015	ND	2.17	109	2.00	5.29	
Toluene*	<0.050	0.050	03/18/2015	ND	1.99	99.3	2.00	4.00	
Ethylbenzene*	<0.050	0.050	03/18/2015	ND	1.91	95.3	2.00	6.10	
Total Xylenes*	<0.150	0.150	03/18/2015	ND	5.69	94.9	6.00	7.55	
Total BTEX	<0.300	0.300	03/18/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	61-154	3						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	03/17/2015	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	
Surrogate: 1-Chlorooctane	84.8	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	92.0	% 52.1-17	6						

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Celley D. Krene



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received:

03/13/2015

Sampling Date:

03/11/2015

Reported:

03/19/2015

Sampling Type:

Soil

Project Name:

DAYTON WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

205-0750

Sample Received By:

Celey D. Keene

Project Location:

GUSHWA DX #1

Sample ID: S 2 - 2' (H500697-04)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2015	ND	2.17	109	2.00	5.29	
Toluene*	<0.050	0.050	03/18/2015	ND	1.99	99.3	2.00	4.00	
Ethylbenzene*	<0.050	0.050	03/18/2015	ND	1.91	95.3	2.00	6.10	
Total Xylenes*	< 0.150	0.150	03/18/2015	ND	5.69	94.9	6.00	7.55	
Total BTEX	<0.300	0.300	03/18/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 %	6 61-154							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12300	16.0	03/17/2015	ND	416	104	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	86.6	10.0	03/17/2015	ND	200	100	200	1.28	
Surrogate: 1-Chlorooctane	89.7	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	89.6	% 52.1-17	6						

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Celley & Keine



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 (505) 748-4635 Fax To:

Received:

03/13/2015

Sampling Date:

03/11/2015

Reported:

Sampling Type:

Soil

03/19/2015

Sampling Condition:

Cool & Intact

Project Name:

DAYTON WATER LINE

Sample Received By:

Celey D. Keene

Project Number: Project Location: 205-0750 GUSHWA DX #1

Sample ID: S 3 - 1' (H500697-05)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2015	ND	2.17	109	2.00	5.29	
Toluene*	<0.050	0.050	03/18/2015	ND	1.99	99.3	2.00	4.00	
Ethylbenzene*	<0.050	0.050	03/18/2015	ND	1.91	95.3	2.00	6.10	
Total Xylenes*	<0.150	0.150	03/18/2015	ND	5.69	94.9	6.00	7.55	
Total BTEX	<0.300	0.300	03/18/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 61-154					107		
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6720	16.0	03/17/2015	ND	416	104	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	
Surrogate: 1-Chlorooctane	84.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	92.8	% 52.1-17	6						

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Celey & Krune



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:

03/13/2015

Sampling Date:

03/11/2015

Reported:

03/19/2015

Sampling Type:

Soil

Project Name:

DAYTON WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

205-0750

Sample Received By:

Celey D. Keene

Project Number:
Project Location:

GUSHWA DX #1

Sample ID: S 3 - 2' (H500697-06)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2015	ND	2.17	109	2.00	5.29	
Toluene*	<0.050	0.050	03/18/2015	ND	1.99	99.3	2.00	4.00	
Ethylbenzene*	<0.050	0.050	03/18/2015	ND	1.91	95.3	2.00	6.10	
Total Xylenes*	<0.150	0.150	03/18/2015	ND	5.69	94.9	6.00	7.55	
Total BTEX	<0.300	0.300	03/18/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 61-154	n						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	03/17/2015	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS				lin	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	
Surrogate: 1-Chlorooctane	76.2	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	89.9	% 52.1-17	121						

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Celly & Kiene



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

03/13/2015

Sampling Date:

03/11/2015

Reported:

Sampling Type:

Soil

Project Name:

03/19/2015

Sampling Condition:

Cool & Intact

Project Number:

DAYTON WATER LINE 205-0750

Project Location:

GUSHWA DX #1

Sample Received By:

Celey D. Keene

Sample ID: S 4 - 1' (H500697-07)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2015	ND	2.17	109	2.00	5.29	
Toluene*	<0.050	0.050	03/18/2015	ND	1.99	99.3	2.00	4.00	
Ethylbenzene*	<0.050	0.050	03/18/2015	ND	1.91	95.3	2.00	6.10	
Total Xylenes*	<0.150	0.150	03/18/2015	ND	5.69	94.9	6.00	7.55	
Total BTEX	<0.300	0.300	03/18/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 9	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	03/17/2015	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	
Surrogate: 1-Chlorooctane	81.1	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	89.6	% 52.1-17	6						

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Celin Ditreme -



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

03/13/2015

Sampling Date:

03/11/2015

Reported:

Sampling Type:

Soil

Project Name:

03/19/2015

Sampling Condition:

Cool & Intact

DAYTON WATER LINE

Sample Received By:

Celey D. Keene

Project Number: Project Location: 205-0750

GUSHWA DX #1

Sample ID: S 4 - 2' (H500697-08)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2015	ND	2.17	109	2.00	5.29	
Toluene*	<0.050	0.050	03/18/2015	ND	1.99	99.3	2.00	4.00	
Ethylbenzene*	<0.050	0.050	03/18/2015	ND	1.91	95.3	2.00	6.10	
Total Xylenes*	<0.150	0.150	03/18/2015	ND	5.69	94.9	6.00	7.55	
Total BTEX	<0.300	0.300	03/18/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106%	6 61-154	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	03/17/2015	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	
Surrogate: 1-Chlorooctane	86.95	% 47.2-15?	7						
Surrogate: 1-Chlorooctadecane	90.5	% 52.1-170	6						

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Celeg & Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Cellent Keene

Standard TAT

× × × × × × × Page 11 of 11



April 14, 2015

CHASE SETTLE
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: DAYTON WATER LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/09/15 11:13.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celes D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

04/09/2015

Sampling Date:

04/02/2015

Reported:

04/14/2015

Sampling Type:

Soil

Project Name:

DAYTON WATER LINE

Sampling Condition:

** (See Notes)

Project Number:

205-0750

Sample Received By:

Jodi Henson

Project Location:

GUSHWA DX #1

Sample ID: S1-3' (H500938-01)

Chlorida	SM4500CI-B
Cilioriue,	31430001-0

	g	

Analyzed By: AP

Analyte

Result

6720

Reporting Limit 16.0

Reporting Limit

16.0

16.0

Reporting Limit

16.0

Analyzed 04/13/2015 Method Blank ND

BS 400 % Recovery 100

True Value QC 400

RPD

3.92

Sample ID: S1-5' (H500938-02)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

RPD

3.92

3.92

Qualifier

Chloride

Chloride

Chloride

Chloride

Result 8160

Analyzed 04/13/2015 Method Blank ND

BS 400 % Recovery 100

True Value QC 400

Qualifier

Sample ID: S1-7' (H500938-03)

Chloride, SM4500CI-B

mg/kg

6160

Analyzed By: AP

Analyte

Analyte

Result Reporting Limit Analyzed

04/13/2015

Method Blank ND

BS 400

% Recovery True Value QC

100

RPD

Qualifier

Qualifier

Sample ID: S1-9' (H500938-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte Result 7040

Analyzed

04/13/2015

Method Blank ND

BS 400

% Recovery 100

True Value QC 400

400

RPD

3.92

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Celly & Krene



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

04/09/2015

Sampling Date:

04/02/2015

Reported:

Sampling Type:

Soil

04/14/2015

Sampling Condition:

** (See Notes)

Project Name:

DAYTON WATER LINE

Project Number:

205-0750

Sample Received By:

BS

400

Jodi Henson

Project Location:

GUSHWA DX #1

Sample ID: S2-3' (H500938-05)

Chloride,	SM450	OCI-B
-----------	-------	-------

Chloride

mg/kg

Analyzed By: AP

Analyte

Result

10100

Reporting Limit

16.0

Analyzed 04/13/2015

Method Blank ND

% Recovery 100

True Value QC

400

RPD

3.92

Qualifier

Sample ID: S2-5' (H500938-06)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	04/13/2015	ND	400	100	400	3 92	

Sample ID: S2-7' (H500938-07)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/13/2015	ND	400	100	400	3.92	

Sample ID: S2-9' (H500938-08)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/13/2015	ND	400	100	400	3.92	

Sample ID: S3-3' (H500938-09)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	04/13/2015	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celeg to trune -



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:

04/09/2015

Reported:

04/14/2015

Sampling Date:

04/02/2015

Sampling Type:

Soil

Project Name:

DAYTON WATER LINE

Sampling Condition:

** (See Notes)

RPD

3.92

Oualifier

Project Number:

205-0750

Sample Received By:

Jodi Henson

Project Location:

GUSHWA DX #1

Sample ID: S3-5' (H500938-10)

Chl	loride.	SM45	OOCI-	B
CIII	oi iue,	SILITS	000	u

	11-
mg/	K

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC
Chloride	32.0	16.0	04/13/2015	ND	400	100	400

Sample ID: S3-7' (H500938-11)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP		***			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/13/2015	ND	400	100	400	3.92	

Sample ID: S3-9' (H500938-12)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/13/2015	ND	400	100	400	3.92	

Sample ID: S4-3' (H500938-13)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	04/13/2015	ND	400	100	400	3.92	

Sample ID: S4-5' (H500938-14)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/13/2015	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celes D. Freene -



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

04/09/2015

Sampling Date:

04/02/2015

Reported:

04/14/2015

Sampling Type:

Soil

Project Name:

DAYTON WATER LINE

Sampling Condition:

** (See Notes)

Project Number:

205-0750

<16.0

Sample Received By:

Jodi Henson

Project Location:

GUSHWA DX #1

Sample ID: S4-7' (H500938-15)

Chloride, SM4500CI-B

Chloride

mg/kg

Analyzed By: AP

Analyte

Result Reporting Limit

16.0

Analyzed 04/13/2015 Method Blank ND

BS % Recovery 400

100

True Value QC

400

RPD

3.92

RPD

3.92

Qualifier

Qualifier

Sample ID: S4-9' (H500938-16)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC
Chloride		<16.0	16.0	04/13/2015	ND	400	100	400

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Celey D. Krens



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celleg to France -

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***************************************	Date	Date	U.S.I.C													ODE		7		NO Y	575-748-4171	Artesia, NM 88210	5 South 4th Street	on or	ates Petroleum Corporal	Chase Settle	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
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Page 7 of 8

City/State/Zip:

Artesia, NM 88210

Company Address: 105 South 4th Street

Comp: (505) 393-232£ Yates Petroleum Corporation

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name:

Dayton Water Line (Gushwa DX #1

Page 8 of 8

Project Loc:

Dayton Water Line (Gushwa DX #1)

PO#: 205-0750

Project #:

	Relinquished by	Communication of the Communica	Polinguish	Special Instructions:		// S4-9°	15 S4-7	14 84-5	/3 \$4-3'	18 S3-9'	// \$3-7	/0 S3-5'	9 \$3-3'	LAB # (lab use only) FIELD CODE	ORDER#:		(lab use only)		Sampler Signature:	Telephone No: 575-748-4174
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April 28, 2015

CHASE SETTLE
YATES PETROLEUM CORPORATION
105 S 4th Street

RE: DAYTON WATER LINE

Artesia, NM 88210

Enclosed are the results of analyses for samples received by the laboratory on 04/24/15 12:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celes D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:

04/24/2015

Sampling Date:

04/22/2015

Reported:

04/28/2015

Sampling Type:

Soil

Project Name:

DAYTON WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

205-0750

Sample Received By:

Jodi Henson

Project Location:

GUSHWA DX #1

Sample ID: S1- 10' (H501074-01)

Chloride, SM4500CI-B

mg/kg

7040

Analyzed By: AP

Analyte

Result Reporting Limit

16.0

Reporting Limit

04/28/2015

Analyzed

Analyzed Method Blank

ND

Method Blank

ND

% Recovery 104

True Value QC 400

RPD

Qualifier

Sample ID: S1- 11' (H501074-02)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

BS

416

0.00

RPD

0.00

Chloride

Chloride

Chloride

Result

8000

7280

16.0

04/28/2015

BS 416 % Recovery 104

True Value QC 400

Qualifier

Sample ID: S1- 12' (H501074-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Analyte

Result Reporting Limit 16.0

Analyzed Method Blank

BS 416 % Recovery True Value QC

RPD

Qualifier

0.00

Sample ID: S1- 13' (H501074-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte Chloride

Result 7120

Reporting Limit

16.0

Analyzed 04/28/2015

04/28/2015

Method Blank ND

ND

BS 416 % Recovery 104

104

True Value QC 400

400

RPD 0.00

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celley Thema-



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

04/24/2015

Sampling Date:

04/22/2015

Reported:

04/28/2015

Sampling Type:

Soil

Project Name:

DAYTON WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

205-0750

5280

Sample Received By:

Jodi Henson

Project Location:

GUSHWA DX #1

Sample ID: S1- 14' (H501074-05)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Reporting Limit Result

Analyzed 04/28/2015 Method Blank ND

BS 416 % Recovery 104

True Value QC 400

RPD

0.00

RPD

0.00

Sample ID: S1- 15' (H501074-06)

Chloride, SM4500CI-B

Analyte

mg/kg Reporting Limit

16.0

Analyzed By: AP

Qualifier

Qualifier

Qualifier

Chloride

Chloride

Result 3040

16.0

Analyzed 04/28/2015 Method Blank ND

416

% Recovery 104

True Value QC 400

Sample ID: S1- 15.5' (H501074-07)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD
Chloride	2040	16.0	04/28/2015	ND	416	104	400	0.00

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Frene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey & Krene

Standard TAT

× × × × × ×

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Dayton Water	
Dayton Water Line (Gushwa DX	
a DX#	

NPDES