MARTIN YATES, III

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JOHN A. YATES

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RECEIVED

APR 2 9 2014

NIMOCO ARTESIA

April 28, 2014

Mr. Jim Amos BLM – Carlsbad Field Office 620 East Greene Street Carlsbad, NM. 88220

Mr. Stephen Caffey BLM – Carlsbad Field Office 620 East Greene Street Carlsbad, NM. 88220

RE: Livingston Ridge SWD Water Line

Dear Mr. Amos and Mr. Caffey,

Yates Petroleum Corporation (Yates) would like to submit the following for your review regarding the release that occurred on the Livingston Ridge SWD Water Line, Section 1, T22S, R31E.

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

Thank You,

Amber Cannon

Environmental Regulatory Agent

mber lannon

Yates Petroleum Corporation

cc: Mike Bratcher, NMOCD District II Artesia

Yates Petroleum Corporation

Livingston Ridge SWD Water Line

Section 1, T22S, R31E

Eddy County, New Mexico

April 28, 2014

Location

The release occurred in Eddy County Section 1, T22S-R31E. The release is located approximately 30 miles east of Carlsbad, New Mexico and 8 miles south of Highway 62/180. The release area can be accessed off of Louis Whitlock Road or Campbell Road. Please see the attached "Livingston Ridge Release Map #1" which shows the general area of the release site and "Livingston Ridge Release Map #2" which shows the outline of the release area on a Google earth map. Both maps can be found in Appendix A. Yates' personnel walked the outside of the release area with a GPS unit during an initial site visit after the release occurred.

Surface and Ground Water

Area surface geology is Cenozoic. The Chevron Texaco depth to groundwater map for Eddy County shows groundwater to be at a depth of approximately 100-125' making the site ranking for this site a zero (0). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is zero (0) based on the as following:

Depth to ground water >100'
Wellhead Protection Area >1000'
Distance to surface water body >1000'

Soils

According to the United States Department of Agriculture Natural Resources Conservation Service Web Soil Survey, the area consists of Berino complex soils. Yates has attached (Appendix B) a copy of the soil survey for your review.

Background

The release occurred on Sunday, October 27, 2013. The release was 3,200 barrels of produced water and 50 barrels of oil, with 480 barrels of produced water and 30 barrels of oil recovered by a vacuum truck. The release occurred when a Yates main water transfer line ruptured. The release took the path of least resistance and flowed to the northwest down a Transwestern Pipeline Company, LLC (Transwestern) 24" high pressure gas line right-of-way.

On October 31, 2013 Yates met with Bureau Land Management (BLM), New Mexico Oil Conservation Division (NMOCD), and Transwestern at the release site to discuss initial cleanup. It was discussed that all visibly contaminated soils would be excavated and hauled to a NMOCD approved disposal facility and then vertical delineation sampling would take place. The initial clean-up started November 1, 2013. Yates excavated approximately 1-3' from the release area during initial clean-up. Areas of the release that were highly saturated had more soils initially excavated and hauled off to disposal at Lea Land, Inc. Landfill.

Initial vertical delineation sampling was conducted on November 4, 2013. Yates split the release area into five (5) separate sections (LR1, LR2, LR3, LR4, and LR5) for this sampling event in order to get a good representation of the release area. Please see the attached "Livingston Ridge"

Release Map #3 11/4/2013 Sampling Event" (Appendix C) for the approximate sample points within the release area. Yates used a trackhoe for the sampling event and went as far as the trackhoe would allow, reaching a vertical depth of 16'. Please see the attached "Livingston Ridge Release Analytical Report H302701 Summary" and "Livingston Ridge Release Analytical Report H302701" (Appendix C) for the results of this sampling event.

Once Yates received the initial analytical results, it was determined that further delineation sampling would be required due to elevated chloride results. At this time, Yates scheduled a core rig to assist with further sampling. Due to core rig availability and scheduling delays on the part of the core rig contactor, coring did not take place until January 16, 2014. For the core rig sampling event, Yates split the release area into three (3) separate sections (LRSS, LRMS, and LRNS). Please see the attached "Livingston Ridge Release Map #4 1/16/2014 Sampling Event" (Appendix D) for the approximate sample points within the release area. Yates was able to core vertically to a depth of 55'. To ensure that Yates did complete vertical delineation, Yates performed chloride testing on site with HACH Chloride QuanTab® Test Strips, 30-600 mg/L and HACH Chloride QuanTab® Test Strips, 300-6000 mg/L. Once the sampling was complete, the soil samples were jarred in 4-ounce soil jars and taken to a third party lab so that Yates would have official analytical results to submit to BLM and NMOCD. Please see the attached "Livingston Ridge Release Analytical Report H400165 Summary" and "Livingston Ridge Release Release Analytical Report H400165 Summary" and "Livingston Ridge Release Release Analytical Report H400165 Directory of this sampling event.

Yates then scheduled a meeting with BLM, NMOCD, and Transwestern at the release site to discuss the results of the initial and follow-up sampling events. At this meeting Randall Pair (BLM) stated that he was still concerned one area of the release had TPH and BTEX issues. Yates agreed to sample further in this section to determine if these issues existed. Mr. Pair was also concerned that the release area had spread horizontally beyond Yates' initial sampling boundaries. Yates agreed to conduct sampling outside of the release area to determine if this was the case.

On February 19, 2014 Yates conducted the further sampling requested by Mr. Pair. Yates tested the area he was concerned about for TPH/BTEX (LR6), to a vertical depth of 7'. Please see the attached "Livingston Ridge Release Map #5 2/19/2014 Sampling Event" (Appendix E) for the approximate sample points within the release area. Overall, the results show no BTEX or TPH problems, and chlorides follow the same trend as the samples from the five (5) sections previously analyzed on November 4, 2013. Please see the attached "Livingston Ridge Release Analytical Report H400528 Summary" and "Livingston Ridge Release Analytical Report H400528" (Appendix E) for the results of this sampling event.

Yates also sampled seven (7) horizontal test holes, each to a depth of 4', to test for horizontal migration of chlorides. Please see the attached "Livingston Ridge Release Map #6 2/19/2014 Sampling Event" (Appendix F) for the approximate sample points within the release area. The horizontal sampling results show very low to non-detectable chlorides, with the exception of one location, LRH2 at 4'. Please see the attached "Livingston Ridge Release Analytical Report H400530 Summary" and "Livingston Ridge Release Analytical Report H400530" (Appendix F) for results of this sampling event.

Yates received analytical results and scheduled a meeting for March 18, 2014 with BLM and NMOCD (unable to attend) in order to discuss all analytical results and come up with a plan to

move forward with clean-up of this release. Yates proposed to excavate 4' and backfill with 2' of compacted caliche and 2' of like top-soil. Mr. Pair did not agree with Yates' proposal and continued to state that all contaminants had to be excavated. Please see Yates' proactive prework plan activities and Yates' work plan in the subsequent sections, followed by detailed concerns with Mr. Pair's recommendations.

Yates Proactive Measures Taken

Unfortunately, releases of produced water, crude oil or natural gas are a part of the oil and gas business. Yates does not like releases occurring any more than BLM or NMOCD. However, as long as the oil field business exists, there will always be releases of some sort, and it is Yates' operational standard to try and minimize the number of releases, as well as the effects of the releases that do occur.

As a result of multiple releases that Yates has had in the Livingston Ridge area due to aging existing water line infrastructure, Yates has been replacing and continues to replace the old water lines in the area. It is Yates' hope that replacing the aging infrastructure lines will keep releases of this nature to a minimum in the area.

Please see the attached map (Appendix G) showing water lines that have been replaced since the releases first began in April 2013, along with the lines that are in the process of being replaced. Yates has also proposed a new water transfer line right-of-way from the Martha AIK Federal Battery to the Flamenco SWD.

Yates Scope of Work Proposal

As discussed at the March 18, 2014 meeting at the BLM office, Yates proposes to do the following remediation work. Yates' proposal is based on depth to groundwater being greater than 100 feet, no surface water in the area, full vertical chloride delineation completed by Yates, and safety/environmental concerns.

- 1. Excavate the release area (approximately 600 feet long, 30 feet wide) to a total vertical depth of 4'.
- 2. Excavation to stay, at a minimum, 4' feet away from the Transwestern high pressure gas line. Cap the Transwestern line with 2' of caliche and 2' of clean, like top soil.
- 3. Backfill the excavated area with 2' of compacted caliche to help minimize upward vertical migration of remaining chloride impacted soil, followed by backfilling with 2' of clean, like top soil to provide a root zone for re-establishing vegetation.
- 4. Re-seed the release area in June 2014, in time for the monsoon season.
- 5. Monitor the area for proper re-vegetation.

Yates Concerns

Mr. Pair has stated multiple times to Yates that <u>all</u> contaminants must be excavated and disposed of. If Yates were to remove all contaminants from the release area, Yates would have to excavate to a vertical depth of approximately 55 feet, over 600 feet long and 25 feet wide. Surface disturbance would cover a much larger area due to benching that would have to occur with this large of an excavation. An excavation of this magnitude is not practicable, safe, or environmentally friendly; it would not be technically, operationally or economically feasible.

• Safety

There is a 24" Transwestern high pressure gas line and it is the foremost concern regarding safety. Excavating around this type of line poses significant danger of explosion and loss of human life. Yates' operations and work plans always consider safety and ensuring that all employees get to go home to their families at the end of every day as the highest priority.

Mr. Pair suggested that Yates could pay Transwestern to shut-in their line during the excavation procedure. This action is impracticable and would pose as a significant disturbance to the Transwestern customers in multiple states.

Mr. Pair also suggested that Yates could pay to have Transwestern's line re-routed during the excavation process. New right-of-way permits, archeological studies and a host of supplementary permits or authorizations would have to be approved and issued before work of this nature could even take place. Yates wants to get this release cleaned up as soon as possible and the extra time it would take to re-route a line of this extent would push clean-up operations back for many months. It would take a minimum of two or three weeks to complete and the bypass pipeline would include, at a minimum, eleven miles of line before clean-up operations could even begin. Also as a result of a new right-of-way to re-route the line, additional unwanted surface disturbance would occur.

Other Yates' concerns for excavation around the Transwestern high pressure gas line is that the line has been in place since around 1959. The existing soils around the line have become compacted over time and offer stability to the line. Disturbing these soils could potentially lead to subsidence or slope failure around the line. If existing soils were excavated from around the line and then backfilled with new soils, heavy machinery or even shovel crews would not be able to re-create the compaction that already exists around the line.

• Surface Disturbance

To complete an excavation to the extent Mr. Pair believes is necessary, Yates would cause surface disturbance to an area much greater than the size of one football field in an area that has the potential to be Lesser Prairie Chicken (LEPC) and Sand Dune Lizard (SDL) habitats. It is also an area that has the potential to be a corridor between two Habitat Evaluation Areas (HEAs). An excavation the magnitude that Mr. Pair has suggested would negatively affect this corridor.

Also, to complete an excavation to the extent Mr. Pair believes is necessary, it would take Yates several months to complete the excavation and backfill of the release area. As a result, Yates would not be able to re-seed the release area in June 2014 to take advantage of the monsoon seasonal rains. Yates has a standard operation procedure of completing all seeding during the month of June because if offers the best potential for rains needed for the growth of vegetation. Not being able to re-seed during this time would negatively impact the ability to re-establish vegetation in a timely manner, as it would be another year before re-seeding could take place. Re-vegetation is important in this area due to the potential habitats the area can offer to LEPC and SDL.

• Practicability and Feasibility

It is not practicable or feasible for Yates to excavate to a vertical depth of approximately 55 feet, over 600 feet long and 30 feet wide. Yates would have to haul off approximately 30,555 yd³ to a landfill disposal facility. Excavating and hauling off this amount of material would take considerable time and a massive workforce.

The amount of caliche and top soil that would be needed to backfill this large of an excavation would be unrealistic. Yates would have to "steal" top soil from another area just to complete the backfill. As a result of "stealing" top soil from somewhere else, Yates would be creating another surface disturbance in a new area. It would take more than the 30,555 yd³ removed to successfully backfill the excavation. Yates does not want to create an entirely new area of disturbed natural surface to be able to have enough to backfill this excavation.

Benefits of Yates Proposal

Yates remains diligent in its desire to care for the environment of New Mexico and the oil fields in which we operate, but even more important is the personal safety of all employees and contractors. Due to the sensitivity of this situation, many personnel, including regulatory agents, will be required to be on location during the remediation process. Yates' proposal will not only inhibit chlorides from affecting the newly established root zone, but is aimed at keeping everyone safe at every phase of the work plan.

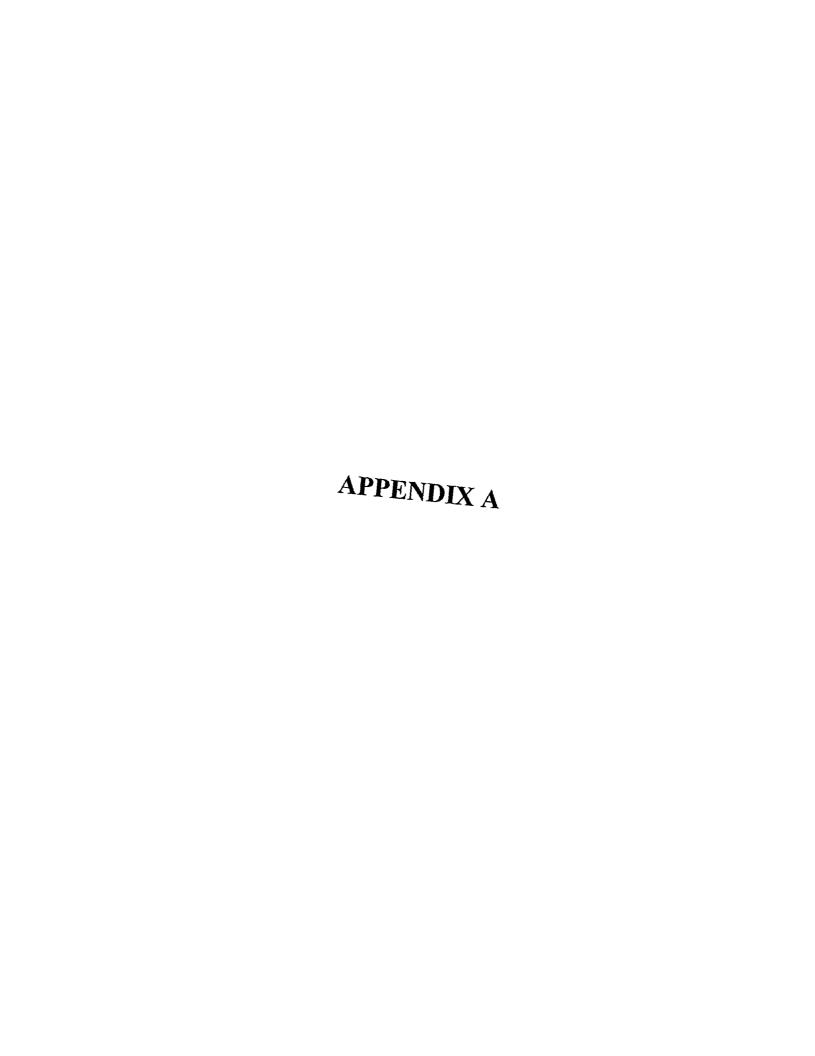
If Yates' work plan is accepted, there would be minimal to no disturbance to soils around the Transwestern pipeline, maintaining stability and protection that the compacted soils around it currently provide. Also, personnel would be able to keep a safe distance from the pipeline, therefore minimizing the risks of a ruptured pipeline.

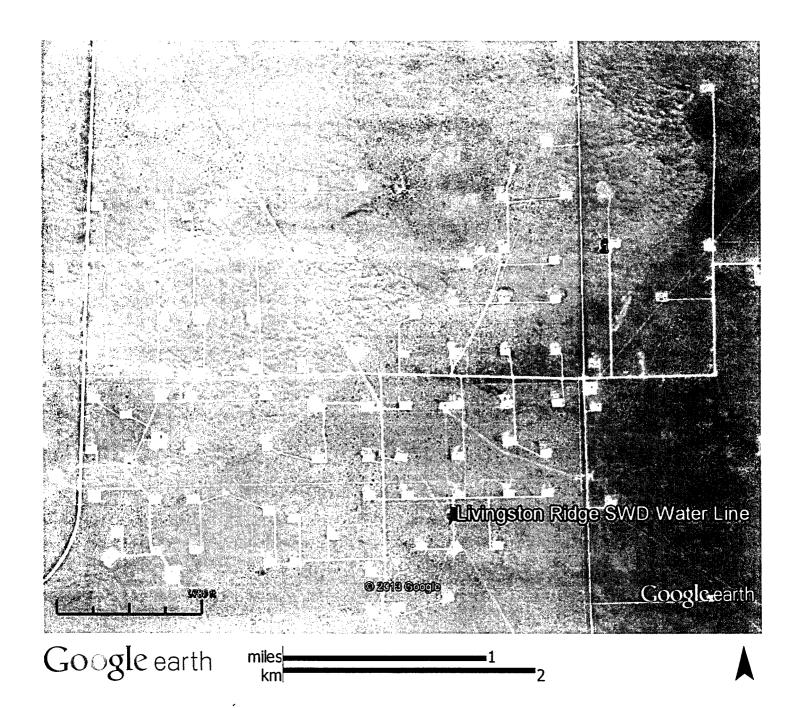
All parties involved would rather not see an interruption to the natural gas service that Transwestern provides to several States. Yates' work plan will be able to accomplish the main restoration goals of Yates, BLM, and NMOCD without disruption to Transwestern.

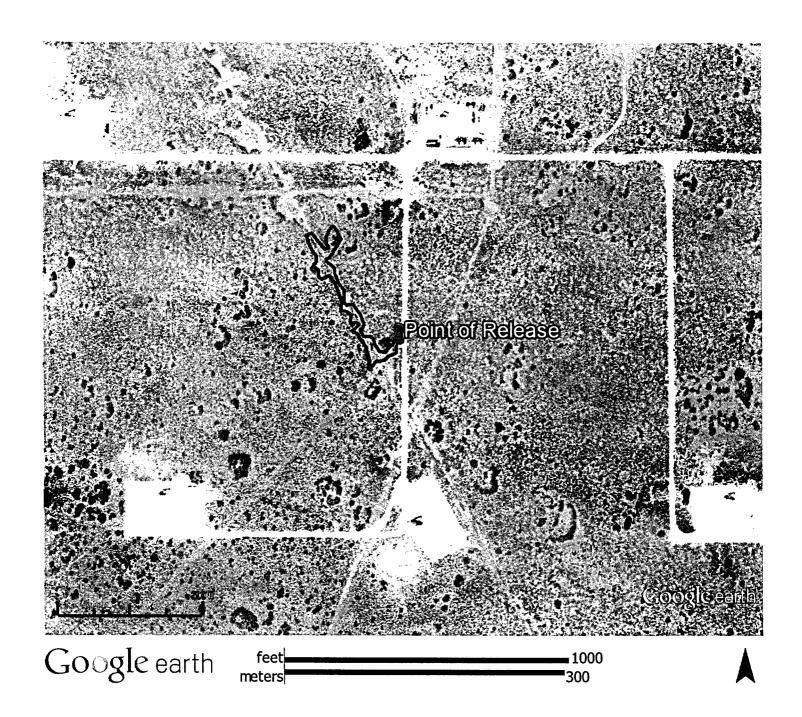
As an active participant in the LEPC and SDL conservation efforts, Yates would like to see as little surface disturbance as possible in potential LEPC and SDL habitats. Our work plan proposal will keep surface disturbance to a minimum instead of creating a much larger area that will be negatively impacted by the excavation process.

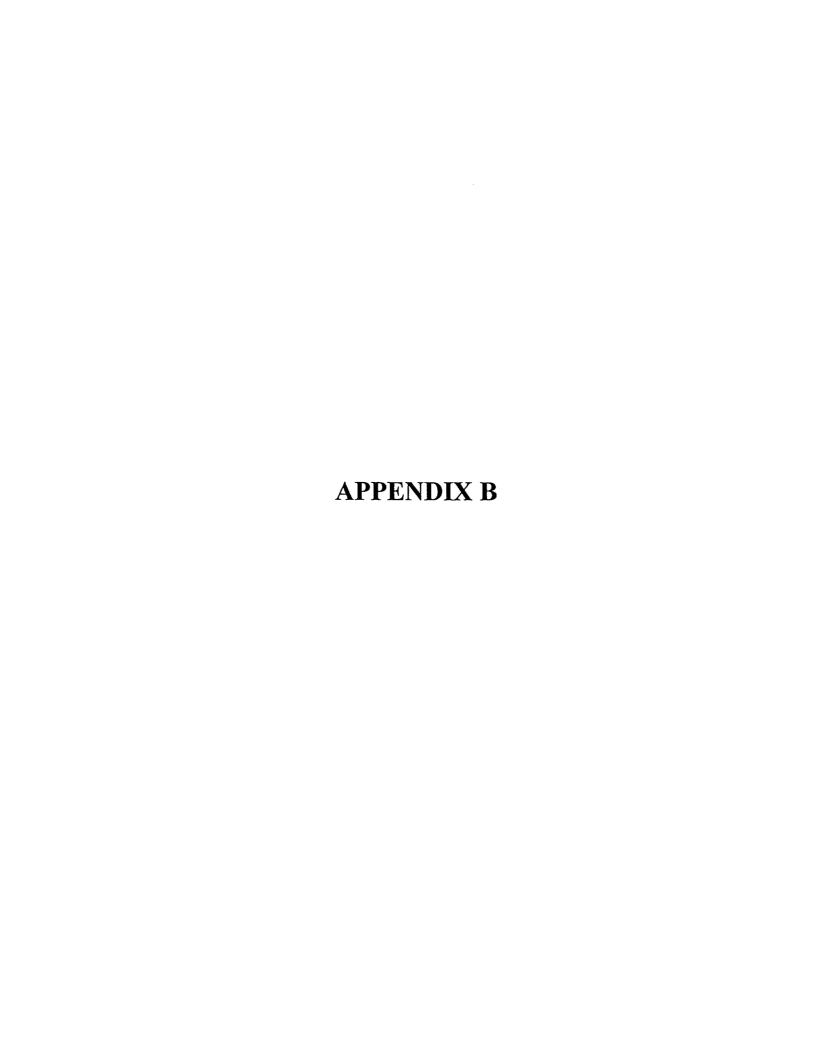
Yates will be able to complete the excavation/backfill operations in a timely manner so that the area can be re-seeded in June 2014 and the re-vegetation process can begin. Yates has had success in the past with completing all seeding procedures during this time of the year to catch the monsoon season rains. The restoration of vegetation is important not only to re-establish the landscape, but to re-create any corridor between LEPC/SDL habitats.

Finally, fewer truckloads of soils will be excavated, transported, disposed, and replaced, which will have a much smaller impact on the environment in regard to vehicular travel, landfill space, backfill material excavation and topsoil replacement.









3/26/2014 Page 1 of 3

Web Soil Survey National Cooperative Soil Survey

Natural Resources Conservation Service

VQSN

MAP LEGEND

Very Stony Spot Stony Spot Spoil Area Wet Spot Other W 8 ₹.>> Soil Map Unit Polygons Area of Interest (AOI) Soil Map Unit Lines Soil Map Unit Points Special Point Features Area of Interest (AOI) Soils

Special Line Features	
Spec	Nater Features
•	Water
2	

atures	Streams and Canal	ration
Water Features	ŧ	Transportation

Borrow Pit

Blowout

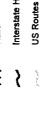
Э

Clay Spot

Rails	Interstate High	
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Closed Depression

 \Diamond



Major Roads Local Roads

Gravelly Spot

Gravel Pit

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Aerial Photography

Marsh or swamp

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Lava Flow

Landfill

Mine or Quarry

Miscellaneous Water

Rock Outcrop Saline Spot Э

Perennial Water

0

(e)

Sandy Spot

Severely Eroded Spot

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- Sinkhole c. v
- Slide or Slip
- Sodic Spot

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting Enlargement of maps beyond the scale of mapping can cause soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov Source of Map: Natural Resources Conservation Service Coordinate System: Web Mercator (EPSG:3857)

Albers equal-area conic projection, should be used if more accurate Maps from the Web Soil Survey are based on the Web Mercator distance and area. A projection that preserves area, such as the projection, which preserves direction and shape but distorts calculations of distance or area are required. This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico

Version 10, Dec 17, 2013 Survey Area Data:

Soil map units are labeled (as space allows) for map scales 1:50,000

Date(s) aerial images were photographed: Data not available.

imagery displayed on these maps. As a result, some minor shifting The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background of map unit boundaries may be evident.

Map Unit Legend

	Eddy Area, New Me	xico (NM614)	
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BB	Berino complex, 0 to 3 percent slopes, eroded	51.6	100.0%
Totals for Area of Interest		51.6	100.0%

Eddy Area, New Mexico

BB—Berino complex, 0 to 3 percent slopes, eroded

Map Unit Setting

Elevation: 3,000 to 4,200 feet

Mean annual precipitation: 10 to 15 inches Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 200 to 220 days

Map Unit Composition

Berino and similar soils: 60 percent Pajarito and similar soils: 25 percent

Description of Berino

Setting

Landform: Fan piedmonts, plains

Landform position (three-dimensional): Riser

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Nonsaline to very slightly saline (2.0 to 4.0 mmhos/

cm)

Sodium adsorption ratio, maximum: 1.0

Available water capacity: Moderate (about 8.0 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: Loamy Sand (R042XC003NM)

Typical profile

0 to 17 inches: Fine sand 17 to 58 inches: Sandy clay loam 58 to 60 inches: Loamy sand

Description of Pajarito

Setting

Landform: Dunes, plains, interdunes

Landform position (three-dimensional): Side slope

Down-slope shape: Convex, linear Across-slope shape: Convex, linear

Parent material: Mixed alluvium and/or eolian sands

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): High (2.00

to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water capacity: Moderate (about 8.0 inches)

Interpretive groups

Farmland classification: Not prime farmland Land capability classification (irrigated): 2e

Land capability (nonirrigated): 7e

Hydrologic Soil Group: B

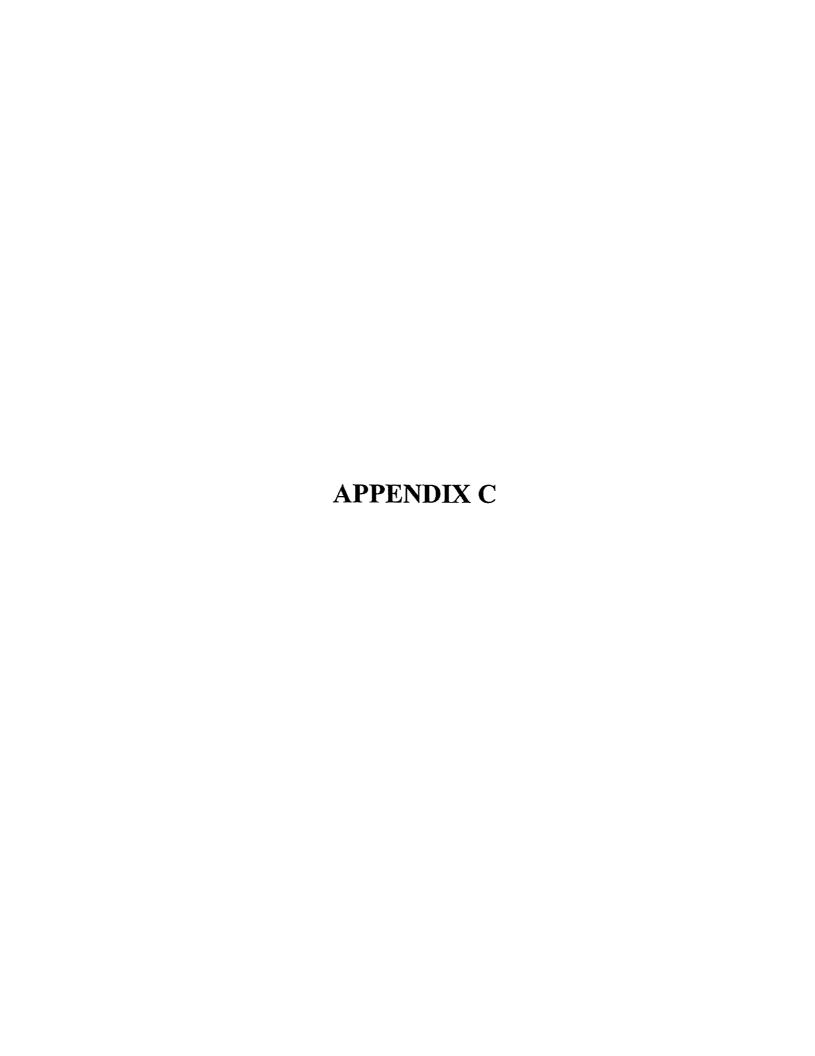
Ecological site: Loamy Sand (R042XC003NM)

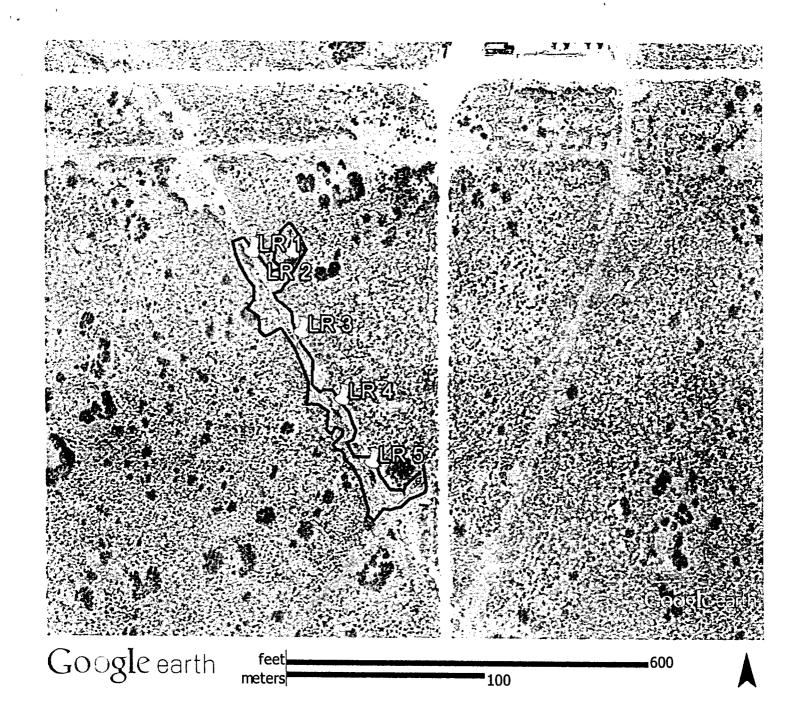
Typical profile

0 to 9 inches: Loamy fine sand 9 to 72 inches: Fine sandy loam

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 10, Dec 17, 2013





Livingston Ridge Release Map #3 11/4/2013 Sampling Event

LIVINGSTON RIDGE SWD WATER LINE

Cardinal Laboratories

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LR 5-16	I R 5-14	LR 5-12	LR 5-10	LR 5-8	LR 5-6	LR 5-4	LR 5-2	LR 4-16	LR 4-14	LR 4-12	LR 4-10	LR 4-8	LR 4-6	LR 4-4	LR 4-2	LR 3-16	LR 3-14	LR 3-12	LR 3-10	LR 3-8	LR 3-6	LR 3-4	LR 3-2	LR 2-14	LR 2-12	LR 2-10	LR 2-8	LR 2-6	LR 2-4	LR 2-2	LR 1-16	LR 1-14	LR 1-12	LR 1-10	LR 1-8	LR 1-6	LR 1-4	LR 1-2	Analytical Report- H302701
Release Area	Sample Area																																						
11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	Sample Date
Grab/Backhoe	Grah/Backhoe	Grab/Backhoe	Sample Type																																				
16'	14.	12'	10'	œ	6'	4'	2'	16'	14'	12'	10'	82	61	4.	2*	16'	14.	12'	10.	œ	6,	٠.	2'	14'	12"	10'	œ	oʻ.	4.	2'	16"	14'	12'	10'	œ.	οį	4.	2.	Depth
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8	N	8	NO	ND	N	N	R	ND	R	S	N	N	ND	ND.	S	ND	ND	ND	ND	S	N	S	N	S	ND	TOTAL													
25,600	19,400	14,600	15,800	14,800	29,200	17,000	11,400	22,600	26,000	24,400	21,800	12,600	23,000	11,600	22,200	12,600	19,000	12,200	13,200	14,800	25,200	11,200	6,260	15,400	20,200	17,200	12,200	10,800	14,000	14,600	14,400	16,000	18,000	10,000	16,200	29,600	21,200	10,300	Chlorides

Site Ranking is ZERO (0). Depth to Ground Water >100' (100'-125' PER TREND MAP)

All results are ppm.Chlorides for documentation.

Released: 3200 B/PW, 50 B/O; Recovered: 480 B/PW, 30 B/O. Release Date: 10/27/2013. 2RP-2044

Livingston Ridge Release Analytical Report H302701 Summary



November 11, 2013

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: LIVINGSTON RIDGE SWD WATER LINE

Enclosed are the results of analyses for samples received by the laboratory on 11/06/13 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 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.

Celeg D. Keene

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 AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

LIVINGSTON RIDGE SWD WATER LINE

(505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

Sampling Type:

Soil

11/11/2013

Sampling Condition:

Cool & Intact

Project Name: Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 1-2 (H302701-01)

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	11/08/2013	ND	2.02	101	2.00	0.0983	
Toluene*	<0.050	0.050	11/08/2013	ND	2.01	100	2.00	0.0618	
Ethylbenzene*	<0.050	0.050	11/08/2013	ND	2.01	101	2.00	0.0369	
Total Xylenes*	<0.150	0.150	11/08/2013	ND	5.90	98.4	6.00	0.540	
Total BTEX	<0.300	0.300	11/08/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110	% 89.4-12	6						
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	11/06/2013	ND	198	98.8	200	1.81	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	224	112	200	17.8	
Surrogate: 1-Chlorooctane	77.5	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	81.4	% 63.6-15	i <i>4</i>						

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 1-4 (H302701-02)

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	11/08/2013	ND	2.02	101	2.00	0.0983	
Toluene*	<0.050	0.050	11/08/2013	ND	2.01	100	2.00	0.0618	
Ethylbenzene*	<0.050	0.050	11/08/2013	ND	2.01	101	2.00	0.0369	
Total Xylenes*	<0.150	0.150	11/08/2013	ND	5.90	98.4	6.00	0.540	
Total BTEX	<0.300	0.300	11/08/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 89.4-12	6						
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	11/06/2013	ND	198	98.8	200	1.81	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	224	112	200	17.8	
Surrogate: 1-Chlorooctane	81.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	87. I	% 63.6-15	4						

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Fax To:

(505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 1-6 (H302701-03)

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	11/08/2013	ND	2.02	101	2.00	0.0983	
Toluene*	<0.050	0.050	11/08/2013	ND	2.01	100	2.00	0.0618	
Ethylbenzene*	<0.050	0.050	11/08/2013	ND	2.01	101	2.00	0.0369	
Total Xylenes*	<0.150	0.150	11/08/2013	ND	5.90	98.4	6.00	0.540	
Total BTEX	<0.300	0.300	11/08/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110	% 89.4-12	6		-,-	engeleente al manata Salaman en			
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	11/06/2013	ND	198	98.8	200	1.81	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	224	112	200	17.8	
Surrogate: 1-Chlorooctane	89.0	% 65.2-14	0	orten et la francisco de la companya		<u></u>			
Surrogate: 1-Chlorooctadecane	89.6	% 63.6-15	4						

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Fax To:

Received:

11/06/2013

11/11/2013

Reported: Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Project Number: Project Location: 103-2020

EDDY COUNTY, NM

Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact Sample Received By:

Jodi Henson

11/04/2013

Sample ID: LR 1-8 (H302701-04)

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	11/08/2013	ND	2.02	101	2.00	0.0983	
Toluene*	<0.050	0.050	11/08/2013	ND	2.01	100	2.00	0.0618	
Ethylbenzene*	<0.050	0.050	11/08/2013	ND	2.01	101	2.00	0.0369	
Total Xylenes*	<0.150	0.150	11/08/2013	ND	5.90	98.4	6.00	0.540	
Total BTEX	<0.300	0.300	11/08/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIE	110	% 89.4-12	6						
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	11/06/2013	ND	198	98.8	200	1.81	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	224	112	200	17.8	
Surrogate: 1-Chlorooctane	105	% 65.2-14	10	, , · · · · · · · · · · · · · · · · · ·					
Surrogate: 1-Chlorooctadecane	111	% 63.6-15	i <i>4</i>						

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Sampling Date:

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Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 1-10 (H302701-05)

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	11/09/2013	ND	2.02	101	2.00	0.0983	
Toluene*	<0.050	0.050	11/09/2013	ND	2.01	100	2.00	0.0618	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	2.01	101	2.00	0.0369	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.90	98.4	6.00	0.540	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110	% 89.4-12	6						
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	11/06/2013	ND	198	98.8	200	1.81	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	224	112	200	17.8	
Surrogate: 1-Chlorooctane	99.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	101	% 63.6-15	4						

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Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: LR 1-12 (H302701-06)

		Ana

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	11/09/2013	ND	2.02	101	2.00	0.0983	
Toluene*	<0.050	0.050	11/09/2013	ND	2.01	100	2.00	0.0618	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	2.01	101	2.00	0.0369	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.90	98.4	6.00	0.540	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 89.4-12	6		W.				
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	11/06/2013	ND	198	98.8	200	1.81	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	224	112	200	17.8	
Surrogate: 1-Chlorooctane	87.1	% 65.2-14	10	77 - 77 - 77 - 78 - 78 - 78 - 78 - 78 -			······································		
Surrogate: 1-Chlorooctadecane	87.1	% 63.6-15	4						

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Reported:

Sampling Type:

Soil

11/11/2013

Cool & Intact

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Project Number:

103-2020

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: LR 1-14 (H302701-07)

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	11/09/2013	ND	2.02	101	2.00	0.0983	
Toluene*	<0.050	0.050	11/09/2013	ND	2.01	100	2.00	0.0618	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	2.01	101	2.00	0.0369	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.90	98.4	6.00	0.540	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110	% 89.4-12	6						
TPH 8015M	mg	/kg	Analyze	zed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	198	98.8	200	1.81	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	224	112	200	17.8	
Surrogate: 1-Chlorooctane	107	% 65.2-14	10	, , , , , , , , , , , , , , , , , , ,					
Surrogate: 1-Chlorooctadecane	111	% 63.6-15	4						

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Celey D. Keine Celey D. Keene, Lab Director/Quality Manager

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Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 1-16 (H302701-08)

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	11/09/2013	ND	2.02	101	2.00	0.0983	
Toluene*	<0.050	0.050	11/09/2013	ND	2.01	100	2.00	0.0618	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	2.01	101	2.00	0.0369	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.90	98.4	6.00	0.540	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 89.4-12	6						
TPH 8015M	mg,	/kg	Analyze	alyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	198	98.8	200	1.81	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	224	112	200	17.8	
Surrogate: 1-Chlorooctane	98.8	% 65.2-14	0	· · · · · · · · · · · · · · · · · · ·		V			
Surrogate: 1-Chlorooctadecane	97.9	% 63.6-15	4						

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Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 2-2 (H302701-09)

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	11/09/2013	ND	2.02	101	2.00	0.0983	
Toluene*	<0.050	0.050	11/09/2013	ND	2.01	100	2.00	0.0618	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	2.01	101	2.00	0.0369	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.90	98.4	6.00	0.540	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 89.4-12	6						
TPH 8015M	mg/	/kg	Analyze	alyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	198	98.8	200	1.81	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	224	112	200	17.8	
Surrogate: 1-Chlorooctane	98.3	% 65.2-14	0	- 10					
Surrogate: 1-Chlorooctadecane	98.1	% 63.6-15	4						

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Received:

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Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Type:
Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 2-4 (H302701-10)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	BS % Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	2.02	101	2.00	0.0983	
Toluene*	<0.050	0.050	11/09/2013	ND	2.01	100	2.00	0.0618	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	2.01	101	2.00	0.0369	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.90	98.4	6.00	0.540	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	% 89.4-12	6						
TPH 8015M	mg/	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	101	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	108	% 63.6-15	4						

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Fax To: (505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

Sampling Type:

Soil

Project Name:

11/11/2013

Sampling Condition:

Cool & Intact

LIVINGSTON RIDGE SWD WATER LINE

Sample Received By:

Jodi Henson

Project Number:

103-2020

Project Location:

EDDY COUNTY, NM

Sample ID: LR 2-6 (H302701-11)

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	11/09/2013	ND	2.02	101	2.00	0.0983	
Toluene*	<0.050	0.050	11/09/2013	ND	2.01	100	2.00	0.0618	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	2.01	101	2.00	0.0369	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.90	98.4	6.00	0.540	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 89.4-12	6						·· • · · · · · · · · · · · · · · · · ·
TPH 8015M	mg,	'kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	73.2	% 65.2-14	10	·					
Surrogate: 1-Chlorooctadecane	83.2	% 63.6-15	i <i>4</i>						

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Celey & Keena



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

Sampling Type:

Soil

11/11/2013

Cool & Intact

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition: Sample Received By:

Jodi Henson

Project Number:

103-2020

Project Location:

EDDY COUNTY, NM

Sample ID: LR 2-8 (H302701-12)

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	11/09/2013	ND	2.02	101	2.00	0.0983	
Toluene*	<0.050	0.050	11/09/2013	ND	2.01	100	2.00	0.0618	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	2.01	101	2.00	0.0369	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.90	98.4	6.00	0.540	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 9	% 89.4-12	6					·	
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	11/06/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	103	% 65.2-14	0				#. #		
Surrogate: 1-Chlorooctadecane	107	% 63.6-15	4						

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Celey D. Keene



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Fax To:

(505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 2-10 (H302701-13)

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	11/10/2013	ND	1.96	97.9	2.00	2.18	
Toluene*	<0.050	0.050	11/10/2013	ND	1.97	98.6	2.00	2.94	
Ethylbenzene*	<0.050	0.050	11/10/2013	ND	1.99	99.7	2.00	3.11	
Total Xylenes*	<0.150	0.150	11/10/2013	ND	5.89	98.2	6.00	3.70	
Total BTEX	<0.300	0.300	11/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIC	111 9	% 89.4-12	6					-	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	101	% 65.2-14	10			- The Alberta			
Surrogate: 1-Chlorooctadecane	110	% 63.6-15	i4						

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Fax To:

(505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: LR 2-12 (H302701-14)

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	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110	% 89.4-12	6				***************************************		**
TPH 8015M	mg,	/kg	Analyze	zed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	94.9	% 65.2-14	0	. ,					
Surrogate: 1-Chlorooctadecane	96.9	% 63.6-15	4						

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Fax To:

(505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 2-14 (H302701-15)

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	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	% 89.4-12	6			THE MARKET.			
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	94.1	% 65.2-14	0				1840		
Surrogate: 1-Chlorooctadecane	97.6	% 63.6-15	4						

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Fax To:

(505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 3-2 (H302701-16)

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	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110	% 89.4-12	6		******	, , , , , , , , , , , , , , , , , , , ,			
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	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	78.4	% 65.2-14	10						****
Surrogate: 1-Chlorooctadecane	82.0	% 63.6-15	4						

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Fax To: (505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 3-4 (H302701-17)

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	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108	% 89.4-12	6						
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	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	98.3	% 65.2-14	10	V-1		··			
Surrogate: 1-Chlorooctadecane	104	% 63.6-15	4						

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Fax To:

(505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 3-6 (H302701-18)

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	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 89.4-12	6						
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	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	104	% 65.2-14	10					, 18/4/ 3 /-14-4	·, · · · · · · · · · · · · · · · · · ·
Surrogate: 1-Chlorooctadecane	109	% 63.6-15	i <i>4</i>						

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Fax To:

(505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

--- //--

Sample ID: LR 3-8 (H302701-19)

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	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110	% 89.4-12	6			, , , , , , , , , , , , , , , , , , , ,			
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	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	104	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	HI :	% 63.6-15	4						

Analysis of Dec MC

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Fax To: (505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

Sampling Type:

Soil

Project Name:

11/11/2013

Sampling Condition:

Cool & Intact

LIVINGSTON RIDGE SWD WATER LINE 103-2020

Project Number: Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: LR 3-10 (H302701-20)

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	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108	% 89.4-12	6						
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	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	96.9	% 65.2-14	0	e e e e e e e e e e e e e e e e e e e		The state of the s			
Surrogate: 1-Chlorooctadecane	104	% 63.6-15	4						

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Celey D. Keene



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

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 3-12 (H302701-21)

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	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 89.4-12	6						
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	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	91.9	% 65.2-14	0	, , , , , , , , , , , , , , , , , , , ,					
Surrogate: 1-Chlorooctadecane	96.0	% 63.6-15	4						

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Fax To: (505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Droject Number

103-2020

Sample Received By:

Jodi Henson

Project Number: Project Location:

EDDY COUNTY, NM

Sample ID: LR 3-14 (H302701-22)

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	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	% 89.4-12	6						
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	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	98.5	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	107	% 63.6-15	i4						

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Fax To:

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11/06/2013

Sampling Date:

11/04/2013

Reported:

DTEV 90318

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 3-16 (H302701-23)

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	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 89.4-12	16						
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	11/08/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/08/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	91.6	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	105	% 63.6-15	i <i>4</i>						

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Fax To:

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Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 4-2 (H302701-24)

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	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 89.4-12	6						
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	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	86.I	% 65.2-14	0			,			, ''I <u>s</u> imus
Surrogate: 1-Chlorooctadecane	89.8	% 63.6-15	4						

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Received:

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Sampling Date:

11/04/2013

Reported:

Sampling Type:

Soil

11/11/2013

Cool & Intact

Project Name: Project Number: LIVINGSTON RIDGE SWD WATER LINE 103-2020

Sampling Condition: Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 4-4 (H302701-25)

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	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 89.4-12	6						
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	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	97.5	% 65.2-14	0			- · · · · · · · · · · · · · · · · · · ·			
Surrogate: 1-Chlorooctadecane	102	% 63.6-15	4						

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(505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

Sampling Type:

Soil

Project Name:

11/11/2013

Sampling Condition:

Cool & Intact

Project Number:

LIVINGSTON RIDGE SWD WATER LINE

Project Location:

103-2020

Sample Received By:

Jodi Henson

EDDY COUNTY, NM

Sample ID: LR 4-6 (H302701-26)

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	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 89.4-12	6						
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	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	90.1	% 65.2-14	10	• •		<u>, , , , , , , , , , , , , , , , , , , </u>			
Surrogate: 1-Chlorooctadecane	97.8	% 63.6-15	4						

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Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Name: Project Number:

103-2020

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: LR 4-8 (H302701-27)

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	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 89.4-12	6						
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	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	95.2	% 65.2-14	0	***************************************					•
Surrogate: 1-Chlorooctadecane	105	% 63.6-15	4						

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Fax To:

(505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

Sampling Type:

Soil

Project Name:

11/11/2013

Sampling Condition:

Cool & Intact

Project Number:

LIVINGSTON RIDGE SWD WATER LINE 103-2020

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: LR 4-10 (H302701-28)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 9	% 89.4-12	6						
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	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	91.8	% 65.2-14	0	······································	·····				
Surrogate: 1-Chlorooctadecane	103	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

--- /k-

Sample ID: LR 4-12 (H302701-29)

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	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIC	110	% 89.4-12	6						
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	11/07/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	191	95.5	200	1.29	
Surrogate: 1-Chlorooctane	65.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	68.4	% 63.6-15	4						

Analysis of Dec MC

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Sampling Date:

11/04/2013

Received: Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 4-14 (H302701-30)

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	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111	% 89.4-12	26						
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	11/07/2013	ND	210	105	200	6.99	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	204	102	200	3.41	
Surrogate: 1-Chlorooctane	99.3	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	106	% 63.6-15	54						

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Celey D. Keene



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Project Name: Project Number: LIVINGSTON RIDGE SWD WATER LINE 103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 4-16 (H302701-31)

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	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111	% 89.4-12	6						,
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	11/07/2013	ND	210	105	200	6.99	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	204	102	200	3.41	
Surrogate: 1-Chlorooctane	113	% 65.2-14	0					·	
Surrogate: 1-Chlorooctadecane	120	% 63.6-15	4						

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Fax To: (505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Type.
Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 5-2 (H302701-32)

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	11/09/2013	ND	1.86	92.9	2.00	2.84	
Toluene*	<0.050	0.050	11/09/2013	ND	1.87	93.4	2.00	2.58	
Ethylbenzene*	<0.050	0.050	11/09/2013	ND	1.89	94.6	2.00	2.28	
Total Xylenes*	<0.150	0.150	11/09/2013	ND	5.57	92.8	6.00	1.69	
Total BTEX	<0.300	0.300	11/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 89.4-12	6						
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	11/07/2013	ND	210	105	200	6.99	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	204	102	200	3.41	
Surrogate: 1-Chlorooctane	95.0	% 65.2-14	10			107.70			.
Surrogate: 1-Chlorooctadecane	102	% 63.6-15	i <i>4</i>						

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Fax To:

LIVINGSTON RIDGE SWD WATER LINE

(505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

Sampling Type:

Soil

Project Name:

11/11/2013

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 5-4 (H302701-33)

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	11/10/2013	ND	1.96	97.9	2.00	2.18	
Toluene*	<0.050	0.050	11/10/2013	ND	1.97	98.6	2.00	2.94	
Ethylbenzene*	<0.050	0.050	11/10/2013	ND	1.99	99.7	2.00	3.11	
Total Xylenes*	<0.150	0.150	11/10/2013	ND	5.89	98.2	6.00	3.70	
Total BTEX	<0.300	0.300	11/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIC	111 9	% 89.4-12	6						
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	11/07/2013	ND	210	105	200	6.99	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	204	102	200	3.41	
Surrogate: 1-Chlorooctane	97.8	% 65.2-14	0	- , , , , , , , , , , , , , , , , , , ,		A PERSON NAMED IN THE PROPERTY OF THE PROPERTY	, n 177, r		
Surrogate: 1-Chlorooctadecane	110	% 63.6-15	4						

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AMBER CANNON
105 S 4th Street
Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 5-6 (H302701-34)

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	11/10/2013	ND	1.96	97.9	2.00	2.18	
Toluene*	<0.050	0.050	11/10/2013	ND	1.97	98.6	2.00	2.94	
Ethylbenzene*	<0.050	0.050	11/10/2013	ND	1.99	99.7	2.00	3.11	
Total Xylenes*	<0.150	0.150	11/10/2013	ND	5.89	98.2	6.00	3.70	
Total BTEX	<0.300	0.300	11/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	% 89.4-12	6						
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	11/07/2013	ND	210	105	200	6.99	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	204	102	200	3.41	
Surrogate: 1-Chlorooctane	92.6	% 65.2-14	10			, , , , , , , , , , , , , , , , , , ,			
Surrogate: 1-Chlorooctadecane	102	% 63.6-15	54						

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Fax To:

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Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 5-8 (H302701-35)

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	11/10/2013	ND	1.96	97.9	2.00	2.18	
Toluene*	<0.050	0.050	11/10/2013	ND	1.97	98.6	2.00	2.94	
Ethylbenzene*	<0.050	0.050	11/10/2013	ND	1.99	99.7	2.00	3.11	
Total Xylenes*	<0.150	0.150	11/10/2013	ND	5.89	98.2	6.00	3.70	
Total BTEX	<0.300	0.300	11/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110	% 89.4-12	6						
ТРН 8015М	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	11/07/2013	ND	210	105	200	6.99	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	204	102	200	3.41	
Surrogate: 1-Chlorooctane	90.4	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	99.5	% 63.6-15	i4						

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Fax To:

o: (505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 5-10 (H302701-36)

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	11/10/2013	ND	1.96	97.9	2.00	2.18	
Toluene*	<0.050	0.050	11/10/2013	ND	1.97	98.6	2.00	2.94	
Ethylbenzene*	<0.050	0.050	11/10/2013	ND	1.99	99.7	2.00	3.11	
Total Xylenes*	<0.150	0.150	11/10/2013	ND	5.89	98.2	6.00	3.70	
Total BTEX	<0.300	0.300	11/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110	% 89.4-12	6	,					
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	11/07/2013	ND	210	105	200	6.99	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	204	102	200	3.41	
Surrogate: 1-Chlorooctane	96.3	% 65.2-14	0	· · · · · · · · · · · · · · · · · · ·				. , , , , , , , , , , , , , , , , , , ,	
Surrogate: 1-Chlorooctadecane	106	% 63.6-15	4						

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Celey & Kune



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

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Number:
Project Location:

EDDY COUNTY, NM

Sample ID: LR 5-12 (H302701-37)

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	11/10/2013	ND	1.96	97.9	2.00	2.18	
Toluene*	<0.050	0.050	11/10/2013	ND	1.97	98.6	2.00	2.94	
Ethylbenzene*	<0.050	0.050	11/10/2013	ND	1.99	99.7	2.00	3.11	
Total Xylenes*	<0.150	0.1 50	11/10/2013	ND	5.89	98.2	6.00	3.70	
Total BTEX	<0.300	0.300	11/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112	% 89.4-12	26						
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	11/07/2013	ND	210	105	200	6.99	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	204	102	200	3.41	
Surrogate: 1-Chlorooctane	96.7	% 65.2-14	10	Maria de la companya		y			***
Surrogate: 1-Chlorooctadecane	99.4	% 63.6-15	i <i>4</i>						

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Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Name: Project Number:

Sample Received By:

Jodi Henson

Project Location:

103-2020

EDDY COUNTY, NM

Sample ID: LR 5-14 (H302701-38)

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	11/10/2013	ND	1.96	97.9	2.00	2.18	
Toluene*	<0.050	0.050	11/10/2013	ND	1.97	98.6	2.00	2.94	
Ethylbenzene*	<0.050	0.050	11/10/2013	ND	1.99	99.7	2.00	3.11	
Total Xylenes*	<0.150	0.150	11/10/2013	ND	5.89	98.2	6.00	3.70	
Total BTEX	<0.300	0.300	11/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 9	% 89.4-12	6						
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	11/07/2013	ND	210	105	200	6.99	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	204	102	200	3.41	
Surrogate: 1-Chlorooctane	91.0	% 65.2-14	10			· · · · · · · · · · · · · · · · · · ·			
Surrogate: 1-Chlorooctadecane	98.1	% 63.6-15	i <i>4</i>						

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Celey & Keene



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Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 5-16 (H302701-39)

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	11/10/2013	ND	1.96	97.9	2.00	2.18	
Toluene*	<0.050	0.050	11/10/2013	ND	1.97	98.6	2.00	2.94	
Ethylbenzene*	<0.050	0.050	11/10/2013	ND	1.99	99.7	2.00	3.11	
Total Xylenes*	<0.150	0.150	11/10/2013	ND	5.89	98.2	6.00	3.70	
Total BTEX	<0.300	0.300	11/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	% 89.4-12	6						
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	11/07/2013	ND	210	105	200	6.99	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	204	102	200	3.41	
Surrogate: 1-Chlorooctane	91.5	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	104	% 63.6-15	i4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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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Celey & Keine

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

TAT brabnat2 Page 42 of 46 NPDES RUSH TAT (Pre-Schödule) 24, 48, 72 hrs Livingston Ridge SWD Water Lin Chlorides **Eddy County** TRRP 103-2020 IO.R.M. × × Analyze For Report Format: X Standard TOTAL: SAR / ESP / CEC mions (Cl, SO4, Alkalinity) Project Name: PO #: Project Loc: Project #: Cations (Ca, Mg, Na, K) 9001 XT :00 × × × 8012 M2108 :HdJ acannon@yatespetroleum.com Please show BTEX results as mg/kg. Please put chlorides on a S S S ဟ S တ ഗ Other (Specify) Preservation & # of Containers Hone OESEN HO&N 'OS'H HCI 575-748-4131 ONH **60** otal #. of Containers e-mail: Fax No: 11:06 AM 10:38 AM 10:50 AM 11:00 AM 10:34 AM 10:41 AM 10:46 AM 10:54 AM Delqms2 emIT 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 Date Sampled Thank you. TPH: 8015B, BTEX: 8021B. 0 16 anno 4 4 4 ø œ Ending Depth Š 16 10, 12 14, N 4 ō 8 575-748-4111 or 575-513-8799 Beginning Depth Yates Petroleum Corporation separate report. 11 ball 3 Company Address: 105 South 4th Street Sampler Signature: (UMDCL Artesia, NM 88210 Project Manager: Amber Cennon FIELD CODE **BNN** Company Name City/State/Zip: Telephone No: Special Instructions: LR 1-16 LR 1-14 LR 1-10 LR 1-12 LR 1-6 LR 1-8 LR 1-2 LR 14 CLM Dec. Relinquished by: lab use only) ٥ (Vino esu del) # 8A

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Temperature Upon Receipt:

Time

Received by ELOT

Date

Relinquished by:

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CHAIN OF CUSTODY RECORD AND ANAL YSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

TAT basbast2 Page 43 of 46 NPDES RUSH TAT (Pre-Schedule) 24, 48, 72 hrs Livingston Ridge SWD Water Line AAS **Eddy County** TX 103-2020 M.A.O.K Temperature Upon Recept: BTEX 8021B/5030 or BTEX 8260 X Standard Metals: As Ag Ba Cd Cr Pb Hg So TOTAL: SAR / ESP / CEC Anions (Cl, SO4, Alkalinity) Project Name: Project Loc: PO#: Project #: Cations (Ca. Mg. Na. K) Report Format: 9001 XI 8 Ime B012 METOB acannon@yatespetroleum.com Please put chlorides on a S S S တ S Other (Specify) Preservation & # of Containers enoM OZSZ6N HOBN OSH HCI 575-748-4131 Please show BTEX results as mg/kg. *ONH Containers of Containers benatii'i blai e-mail: Fax No: 11:18 AM 11:30 AM 11:34 AM 11:38 AM 11:20 AM 11:24 AM 11:27 AM Time Sampled 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 Date Sampled Thank you. TPH: 8015B, BTEX: 8021B. 4 9 7 (bunner ó, ထ Ending Depth Time 14, 12 10. ā ٥ Beginning Depth ัง 4 575-748-4111 or 575-513-8799 Yates Petroleum Corporation separate report. न्द्रीना। Date Company Address: 105 South 4th Street Artesia, NM 88210 Jupa Amber Cannon FIELD CODE Sampler Signature: Project Manager: Company Name Telephone No: City/State/Zlp: Special Instructions: 5 LR 2-14 LR 2-10 LR 2-12 LR 2-6 LR 2-8 LR 2-2 LR 24 3000 20000 Relinquished by: Relinquished by: lab use only) ORDER #: Q (yino seu dai) # 8A

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 ARDINAL LABORATORIES

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

TAT brebnet2 Page 44 of 46 NPDES RUSH TAT (Pre-Schedule) 24, 48, 72 hrs Livingston Ridge SWD Water Line **AAS** × × × Chlorides × **Eddy County** 103-2020 TRRP M.A.O.N. JOE × × × × × × BTEX 8021B/5030 or BTEX 8260 Report Format: X Standard TOTAL: SAR / ESP / CEC hions (Ct, SO4, Alkalinity) Project Name: Project #: Project Loc: PO#: stions (Ca, Mg, Na, K) 3001 XT 2001 XT :HdJ 300 2108 :HdJ × × × × × × × × M2108 1.814 acannon@yatespetroleum.com Please show BTEX results as mg/kg. Please put chlorides on a ഗ S S ഗ S S Date Other (Specify) Preservation & # of Containers anoM Na₂S₂O₃ HOSM 'OS'H HCI 575-748-4131 **°**ОNН eoj × × otal #. of Containers benetii'i blei Fax No: e-mail: 11:53 AM 11:58 AM 12:04 PM 12:16 PM 12:20 PM 11:50 AM 12:08 PM 12:12 PM Time Sampled Received by ELOT 11/4/2013 11/4/2013 11/4/2013. 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 Date Sampled Thank you. TPH: 8015B, BTEX: 8021B. SATION OF 5 14. 16 7 4 ō œ Ending Depth 'n Time Time Time 16, 12 14. 9 4 å Š ō Beginning Depth 575-748-4111 or 575-513-8799 Yates Petroleum Corporation separate report. 11/4/13 Date Date Company Address: 105 South 4th Street Artesia, NM 88210 Smoor Amber Cannon FIELD CODE ANNA Sampler Signature: Project Manager: Company Name Telephone No: City/State/Zip: Special Instructions: 7LR 3-14 3 LR 3-16 20 LR 3-10 LR 3-12 LR 3-4 3 LR 3-6 9 LR 3-8 16 LR 3-2 Sport Sport elinquished by: Relinquished by: elinquished by. ORDER #: (lab use only) (vino seu dsi) # 8A

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Fage 1745

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 ARDINAL LABORATORIES

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

34 to 34 9gs TAT brabnat2 × NPDES SUSH TAT (Pre-Schedule) 24, 48, 72 hra Livingston Ridge SWD Water Line **AAS** × Chlorides Eddy County TRRP 103-2020 M.A.O.I **BCI** emperature Upon Receipt: × × × × × × × BTEX 8021B/5030 of BTEX 8260 x Standard Nefsis: Y<mark>a Y</mark>a Ba Cd Ct Pb Ha Se 건 SAR / ESP / CEC Injous (Cl. SO4, AlkalinIty) Project Name: Project Loc: PO #: Project #: Cations (Ca, Mg, Na, K) Report Format: **9001 XT** TX 1005 Time Ime × M2108 :HdJ acannon@yatespetroleum.com Matrix TPH: 8015B, BTEX: 8021B. Please show BTEX results as mg/kg. Please put chlorides on a ഗ S ဟ S ഗ S S S Date Other (Specify) Preservation & # of Containers Show ^eO^zS^zeN HOEN 'OS'H HCI 575-748-4131 **ONH** × × × 80| otal #. of Containers Fax No: e-mail: 12:32 PM 12:38 PM 12:43 PM 12:48 PM 12:29 PM 12:53 PM 12:56 PM 1:03 PM baldma2 amfT Received by ELO 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 Date Sampled Thank you. 4 <u>1</u>0 ģ 4 N **.**4 ō έo Ending Depth Time ime 4 16 12 10 4 ထံ è ō 575-748-4111 or 575-513-8799 Beginning Depth Yates Petroleum Corporation separate report. 5)4/1 Date Company Address: 105 South 4th Street Artesia, NM 88210 Ampe Ampe Amber Cannon H30270 FIELD CODE Sampler Signature: Project Manager: Company Name Telephone No: City/State/Zlp: pecial instructions LR 4-14 LR 4-16 LR 4-10 LR:4-12 LR 4-8 LR 4-2 HOLR 46 20 LR 44 300 auished by: Relinquished by alinquished by ORDER #: lab use only) (Isb use only)

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November 11, 2013

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: LIVINGSTON RIDGE SWD WATER LINE

Enclosed are the results of analyses for samples received by the laboratory on 11/06/13 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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.

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 AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Reporting Limit

16.0

16.0

Reporting Limit

Reporting Limit

16.0

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Analyte

Analyte

Analyte

Analyte

Project Location: EDDY COUNTY, NM

Sample ID: LR 1-2 (H302701-01)

Chlor	ide,	SM4	500	CI-	·B

	,	L.
ma	,	ĸ

Analyzed By: AP

BS % Recovery

True Value QC

RPD 4.01

Qualifier

Chloride

Result 10300

11/07/2013

Analyzed

Method Blank ND

Method Blank

Method Blank

ND

ND

432

BS

108

400

Sample ID: LR 1-4 (H302701-02)

CH	lorida	SM4500CI-B	

mg/kg	g
-------	---

Analyzed By: AP

True Value QC

Chloride

Result 21200 Reporting Limit

11/07/2013

Analyzed

ND 432 108

% Recovery

400

Qualifier

Sample ID: LR 1-6 (H302701-03)

Chloride.	SM4500CI-B
CHIOTIAC,	21.1420001 D

mg/kg

Analyzed By: AP

BŞ

% Recovery

RPD

4.01

Qualifier

Chloride

Chloride

29600

Result

16200

Result

16.0

Analyzed 11/07/2013

Analyzed

11/07/2013

432

108

True Value QC 400

RPD

4.01

Sample ID: LR 1-8 (H302701-04)

		CHARGO	ACI D
L.DI	oride.	SM450	ס־וטטי

mg/kg

Analyzed By: AP

Method Blank

BS

432

% Recovery 108

True Value QC 400

RPD 4.01 Qualifier

Cardinal Laboratories

*=Accredited Analyte

including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether

Celey D. Keine Celey D. Keene, Lab Director/Quality Manager

Page 2 of 15



YATES PETROLEUM CORPORATION AMBER CANNON

105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Project Number:

Analyte

Analyte

103-2020

Project Location: EDDY COUNTY, NM

Sample ID: LR 1-10 (H302701-05)

Chi	orid	ε,	5M	45	OO	CI-B	

mg/kg

Analyzed By: AP

BS

% Recovery

108

True Value QC

RPD

4.01

RPD

Chloride

Chloride

Chloride

Chloride

Chloride

Result 10000

Result

18000

16000

Result

14400

Result

14600

Reporting Limit 16.0

Reporting Limit

16.0

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 11/07/2013

Analyzed

11/07/2013

Method Blank ND

432

400

Qualifier

Sample ID: LR 1-12 (H302701-06)

Chloride, SM45	nnci-R

mg/l	ΚÇ
------	----

Analyzed By: AP

Method Blank

ND

ND

BS

432

% Recovery 108

True Value QC

Qualifier

Sample ID: LR 1-14 (H302701-07)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

108

400

400

4.01

Reporting Limit BS True Value QC RPD Analyte Result Analyzed Method Blank % Recovery

11/07/2013

Analyzed

11/07/2013

Analyzed

11/07/2013

Sample ID: LR 1-16 (H302701-08)

Chloride, SM4500CI-B

Analyte

Analyte

mg/kg

Analyzed By: AP

Method Blank

BS

432

432

% Recovery

108

True Value QC

RPD

4.01

Oualifier

Qualifier

Sample ID: LR 2-2 (H302701-09)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

ND

400

4.01

RPD

4.01

Method Blank

ND

BS 432

% Recovery 108

True Value QC 400

Qualifier

Cardinal Laboratories

*=Accredited Analyte

ors arising out of or related to the perform

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION AMBER CANNON

105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 2-4 (H302701-10)

C 1	orio		C.14	41	E٨	n	~r	E
Cn	опс	ıe.	SM	44:	วบ	V١	JI"	1

Chloride

Chloride

Chloride

Chloride

Chloride

mg/kg

14000

Result

10800

Result

12200

Analyzed By: AP

Analyte

Result Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 11/07/2013 Method Blank ND

BS % Recovery

432

BS

432

BS

416

True Value QC 400

RPD

4.01

Qualifier

Sample ID: LR 2-6 (H302701-11)

Chloride,	SM4500CI-B	
-----------	------------	--

Analyte

ma	1	ka

Analyzed By: AP

Analyzed

11/07/2013

Method Blank

ND

RPD Qualifier

Sample ID: LR 2-8 (H302701-12)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

104

108

% Recovery

108

True Value QC

400

4.01

Analyte

Reporting Limit

16.0

Analyzed

11/08/2013

Method Blank

ND

% Recovery

True Value QC

RPD Qualifier

Sample ID: LR 2-10 (H302701-13)

Chloride, SM4500CI-B

mg/kg

Result

17200

Result

20200

Analyzed By: AP

400

RPD

3.92

3.92

Analyte

Analyte

Reporting Limit 16.0

Reporting Limit

16.0

Analyzed 11/08/2013

Analyzed

11/08/2013

Method Blank ND

BS 416

BS

416

% Recovery 104

True Value QC

RPD

Qualifier

Sample ID: LR 2-12 (H302701-14)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Method Blank

ND

% Recovery

104

400

True Value QC

400

3.92

Qualifier

Cardinal Laboratories

*=Accredited Analyte

Celey & Keene

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 15



YATES PETROLEUM CORPORATION

AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

LIVINGSTON RIDGE SWD WATER LINE

(505) 748-4635

Analyzed By: AP

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

Chloride, SM4500Cl-B

11/11/2013

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

mg/kg

Sample ID: LR 2-14 (H302701-15)

Ciliotiac, Stifferen 2	9/9		Analyzea by i Al						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15400	16.0	11/08/2013	ND	416	104	400	3.92	
Sample ID; LR 3-2 (H30270)	1-16)								
Chioride, SM4500CI-B	mg/kg		Analyzed By: AP						····
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6260	16.0	11/08/2013	ND	416	104	400	3.92	
Sample ID: LR 3-4 (H30270	1-17)								
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	16.0	11/08/2013	ND	416	104	400	3.92	
Sample ID: LR 3-6 (H30270	1-18)								
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP			·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25200	16.0	11/08/2013	ND	416	104	400	3.92	
Sample ID: LR 3-8 (H30270	1-19)								
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,							

Cardinal Laboratories

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Celey & Keene

Celey D. Keene, Lab Director/Quality Manager



YATES PETROLEUM CORPORATION

AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Project Number:

Analyte

Analyte

Analyte

Analyte

Analyte

103-2020

Analyzed

Analyzed

11/08/2013

Project Location: EDDY COUNTY, NM

Sample ID: LR 3-10 (H302701-20)

mg/kg

Analyzed By: AP

BS

BS

416

True Value QC

RPD

Chloride

Result 13200

Result

12200

Reporting Limit

16.0

Reporting Limit

16.0

11/08/2013

416

Method Blank

ND

Method Blank

ND

400

3.92

Qualifier

Qualifier

Sample ID: LR 3-12 (H302701-21)

mg/kg

Analyzed By: AP

% Recovery

104

% Recovery

104

True Value QC

Chloride

Sample ID: LR 3-14 (H302701-22)

Analyzed By: AP

400

3.92

RPD

Chloride, SM4500Cl-B

mg/kg

Reporting Limit Analyzed Method Blank

BS

% Recovery

Qualifier

Chloride

Chloride

Chloride

Result 19000

Result

12600

Result

22200

16.0

11/08/2013

416

104

True Value QC 400

RPD

3.92

Sample ID: LR 3-16 (H302701-23)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

RPD

3.92

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 11/08/2013

Analyzed

11/08/2013

Method Blank ND

Method Blank

ND

BS 416

BS

416

% Recovery 104

% Recovery

104

True Value QC

True Value QC

400

RPD

Qualifier

Sample ID: LR 4-2 (H302701-24)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

400

3.92

Qualifier

Cardinal Laboratories

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Celey D. Krene Celey D. Keene, Lab Director/Quality Manager

Page 6 of 15



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Number:
Project Location:

EDDY COUNTY, NM

Sample ID: LR 4-4 (H302701-25)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 4-6 (H302701-26)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP				·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	23000	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 4-8 (H302701-27)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12600	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 4-10 (H302701-28)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21800	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 4-12 (H302701-29)

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24400	16.0	11/08/2013	ND	416	104	400	3.92	

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Celey & Keene



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street

Analyzed By: AP

Artesia NM, 88210

Fax To: (505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

Chloride, SM4500Cl-B

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

Sample Received By:

Jodi Henson

103-2020

mg/kg

Project Location: EDDY COUNTY, NM

Sample ID: LR 4-14 (H302701-30)

· · · · · · · · · · · · · · · · · · ·									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26000	16.0	11/08/2013	ND	416	104	400	3.92	
Sample ID: LR 4-16 (H30	2701-31)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22600	16.0	11/08/2013	ND	416	104	400	3.92	
Sample ID: LR 5-2 (H302	701-32)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11400	16.0	11/08/2013	ND	416	104	400	3.92	
Sample ID: LR 5-4 (H302	2701-33)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17000	16.0	11/08/2013	ND	416	104	400	3.92	
Sample ID: LR 5-6 (H302	2701-34)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	29200	16.0	11/08/2013	ND	416	104	400	3.92	

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Celey & Keine



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received:

11/06/2013

Sampling Date:

11/04/2013

Reported:

11/11/2013

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

103-2020

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: LR 5-8 (H302701-35)

Chloride,	SM4500CI-B

mg/kg

Anal	yzed	By:	ΑF
------	------	-----	----

Analyte

Reporting Limit Result

Analyzed

Method Blank

BS

% Recovery

True Value QC

RPD

Qualifier

Chloride

Chloride

Chloride

14800

Result

15800

16.0

Reporting Limit

16.0

11/08/2013

Analyzed

11/08/2013

ND

416

104

400

3,92

RPD

3.92

Sample ID: LR 5-10 (H302701-36)

Chloride, SM4500CI-B

Analyte

mg/kg

Analyzed By: AP

Method Blank

ND

BS

416

% Recovery

104

104

True Value QC

400

Qualifier

Sample ID: LR 5-12 (H302701-37)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte Result Reporting Limit

14600

16.0

Analyzed 11/08/2013 Method Blank

BS 416 % Recovery

True Value QC

RPD

Qualifier

3.92

Sample ID: LR 5-14 (H302701-38)

Chloride, SM4500CI-B

Analyte

Analyte

mg/kg

Analyzed By: AP

Method Blank

ND

BS

400

Qualifier

Chloride

Result 19400

Result

25600

Reporting Limit 16.0

Reporting Limit

16.0

Analyzed 11/08/2013

Analyzed

11/08/2013

ND

416

% Recovery 104

True Value QC

RPD

Chloride

BS

416

% Recovery

104

400

True Value QC

400

3.92

Sample ID: LR 5-16 (H302701-39)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

ND

RPD

3.92

Qualifier

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Celey D. Keine Celey D. Keene, Lab Director/Quality Manager



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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Page 1 of 5

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

Standard TAT Page 11 of 15 NPDES TAT H2US (Pre-Schedule) 24, 48, 72 hrs Livingston Ridge SWD Water Lin **AAS** sapholdC Eddy County TRRP 103-2020 N.O.R.M. 301 × × × × BTEX 8021B/5030 of BTEX 8260 Laboratory Comments: Sample Containers Infact Analyze OCs Free of Hea Report Format: X Standard letals: As Ag Ba Cd Cr Pb Hg Se TCLP: TOTAL Project Name: Inions (Cl. SO4, Alkalinity) Project Loc: PO#: Project #: ations (Ca, Mg, Na, K) **8001 XT** 2001 XT :HdJ 8012 × × M2108 acannon@yatespetroleum.com Please show BTEX results as mg/kg. Please put chlorides on a S ഗ တ ഗ S S S S Other (Specify) Na₂S₂O₃ HOSN Preservation & # of *OS*H HCI 575-748-4131 ONH × × × eo[enentation of Containers ield Filtered Fax No: e-mail: 11:00 AM 10:34 AM 10:54 AM 11:06 AM 10:38 AM 10:41 AM 10:46 AM 10:50 AM Time Sampled 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 Date Sampled Thank you. TPH: 8015B, BTEX: 8021B. 14' 14' 16 amos 10 12 4 Ending Depth Ö ō ō ime 12, 16 9 4 ತ ŏ 575-748-4111 or 575-513-8799 **Beginning Depth** Š Yates Petroleum Corporation separate report. Company Address: 105 South 4th Street Artesia, NM 88210 Saras Saras Amber Cannon FIELD CODE ORDER#: 130210 Sampler Signature: (Project Manager: Company Name Telephone No: City/State/Zip: Special Instructions: T LR 1-14 LR 1-16 LR 1-10 O LR 1-12 LR 1-6 LR 1-8 LR 1-2 LR 1-4 Hipquished by: (lab use only S

(ylno esu del) # 8A-

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Temperature Upon Receipt:

Time

Date

Received by ELOT

Time

Date

Relinquished by:

Time

51/2/11

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Relinquished by

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

[₹ 3	CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST	AND ANALYSIS REQUEST
ARDINA 101 Eas	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240	(505) 393-2326 FAX (505) 393-2476		10 SI
Project Manaç	Project Manager: Amber Cannon		Project Nam	Project Name: Livingston Ridge SWD Water Line G
Company Name	ne Yates Petroleum Corporation		Project #:	
Company Ado	Company Address: 105 South 4th Street		Project Loc:	c: Eddy County

NPDES

TRRP

Report Format: X Standard

acannon@yatespetroleum.com

e-mail: Fax No:

Cannon

Sampler Signature:

575-748-4111 or 575-513-8799

Telephone No:

Artesia, NM 88210

City/State/Zip:

575-748-4131

103-2020

PO #:

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Analyze For	_	┝	╀	selitsiovimeS	-	├-	 		-		-	\vdash	aboratory Comments	Sample <u>Containers Intacto</u> VOCs Free of Headsnace	Labels on containers is seen container.	Sample Hand Delivered: by Sampler/Client Rep	by Courier A URS T Temperature Upon Receipt.
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,				bəlqms2 əmiT	11:18 AM	11:20 AM	11:24 AM	11:27 AM	11:30 AM	11:34 AM	11:38 AM		show BTEX results as mg/kg.		Lon		JT.
				beldmeS ete D	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013	11/4/2013		Please sho	u, ·	Received by:	Redelived by:	Received by ELOT
				Ending Depth	2	4.	.9	8,	10,	12'	14'		021B.	Thank you.	Time	Time	Time
				Beginning Depth	7	4	.9	∞	<u>.</u> 6	12,	14		EX: 80		<u> </u>		jë j
		変数など				-		,				,	TPH: 8015B, BTEX: 8021B.	separate report.	Date	Date	Date
			**	FIELD CODE	LR 2-2	LR 2-4	LR 2-6	LR 2-8	LR 2-10	LR 2-12	LR 2-14		Special Instructions:	ØΙ	Relinquished by:	Relinquished by:	Relinquished by:
	(lab use only)		ORDER #:		0	0		0	3	三	3		sial Ir		de list	duish	quish
	apr		JRD	LAB # (lab use only)	3		_						Spec				Refin
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Page 3 of S

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

Page 13 of 15 NPDES Project Name: Livingston Ridge SWD Water Line **Eddy County** TRRP 103-2020 Report Format: X Standard PO #: Project #: Project Loc: acannon@yatespetroleum.com Fax No: 575-748-4131 e-mail: 575-748-4111 or 575-513-8799 Yates Petroleum Corporation Company Address: 105 South 4th Street Artesia, NM 88210 Sampler Signature: 🔾 mulous Project Manager: Amber Cannon Company Name City/State/Zip: Telephone No:

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((ab use only)						-											•-	TCLP:						_	_	£,		
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ORDER#: ロンして し							Ą	eserv	Preservation & # of Containers	jo #	ontai	ners	Ľ	Matrix	191	 	H	L	ଚ୍ଚ	İΤ	09	امما				4 'BÞ		
LAB # ((ab use only)	ili	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered Total #. of Containers	lce	NO9	H ⁵ 20 ⁴	НовИ	cO _s S _s eN	None Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soll/Solid MP=Non-Potable Specify Other		TPH: TX 1005 TX 1006 Cations (Ca. Mo. Na. K)	Cations (Ct, Mg, Na, K) Anions (Ct, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg	Volatiles	BTEX 80218/5030 or BTEX 62	RCI	м.о.я.м.	Chlorides	, yas	RUSH TAT (Pre-Schedule) 24,	TAT brishnet?	
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Special Instructions:	TPH: 8015B, BTEX: 8021B	EX: 80	21B.	Please show	ow BTEX results as mg/kg.	s as	mg/k	i .	eas	e DC	盲	<u> </u>	Please put chlorides on	on a			aboratory Comments:	ato	ပိုင်	Ĕ	ints							
	separate report.		Thank you	u.			-	į				!		,		<i>∞</i> >	Sample Confames Intractor VOGs Free of Headsnace				tage.					Ø2		
Relinquished by:	Date	Time		Received by:	Hender	18	ヿ゙゙゙゙゙゙゙゙゙゙゙゙゚					[=	Date	3/1			Tabels on container (s) Personal to the container (s) the containe		opata als o	80				YU)	$\boldsymbol{\alpha}$		W. H	
Refinquished by:	Date	Time		Resived by:								-	e ge		Time		Sample Hand Delivered by Sampler/Client Re	nble Hand Delivered by Sampler/Client Rep	5 g (el el c	78 B	, ,		(W)	\sim)z z (
Relinquished by:	Date	Time		Received by ELC							GEORGE GREEN		Date		Time		ov. coulier. Temperature Upon Receipt		. j⊃ B	, E	2 8	j., j.,	rii. P	B	<u>.</u>	် ရှိ	6 () ()	

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Page 445 CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST Livingston Ridge SWD Water Line

Project Name:

101 East Marland, Hobbs, NM 88240

ARDINAL LABORATORIES

Amber Cannon

Project Manager:

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

Page 14 of 15 TAT brabust2 NPDES ENG TAT (Pre-Schedule) 24, 48, 72 hrs **AAS** sappoly **Eddy County** TRRP 103-2020 N.A.O.Y 102 femperature Upon Receipt: × × × × BTEX 8021B/5030 of BTEX 8260 × olatiles x Standard Netals: As Ag Ba Cd Cr Pb Hg Se TC.P. TOTAL: SAR / ESP / CEC /uions (Cl, SO4, Alkalinity) PO#: Project Loc: Project #: Cations (Ca, Mg, Na, K) Report Format: 9001 XT 3001 XT :Hd. T P × × × × × × MG108 :HdJ 1.814 acannon@yatespetroleum.com Please put chlorides on a S ဟ ഗ S S S S S W=Drinking Water SL=Sludge Other (Specify) euoN EOSSEN HOBN 'OS²H НСІ 575-748-4131 Please show BTEX results as mg/kg. °ONH 90| fotal #. of Containers benetliii blei Fax No: e-mail: 12:56 PM 12:48 PM 12:29 PM 12:32 PM 12:43 PM 12:53 PM 12:38 PM 1:03 PM Time Sampled Received by ELO 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 Date Sampled Thank you TPH: 8015B, BTEX: 8021B. 14. 16 10. 12 4 ō, à Ending Depth Š me Time 16' 4 12 10 4 Ö 575-748-4111 or 575-513-8799 Ñ œ Beginning Depth Yates Petroleum Corporation separate report. 5/8/13 Page Company Address: 105 South 4th Street Artesia, NM 88210 30 E FIELD CODE 3555 Sampler Signature: Company Name Telephone No: City/State/Zip: Special Instructions: LR 4-12 LR 4-14 LR 4-16 LR 4-10 LR 4-6 LR 4-8 LR 4-2 20 LR 44 3 elinquished by: Relinquished by: Relinquished by: (lab use only) ORDER #: (Vino szu dal) # 8AJ

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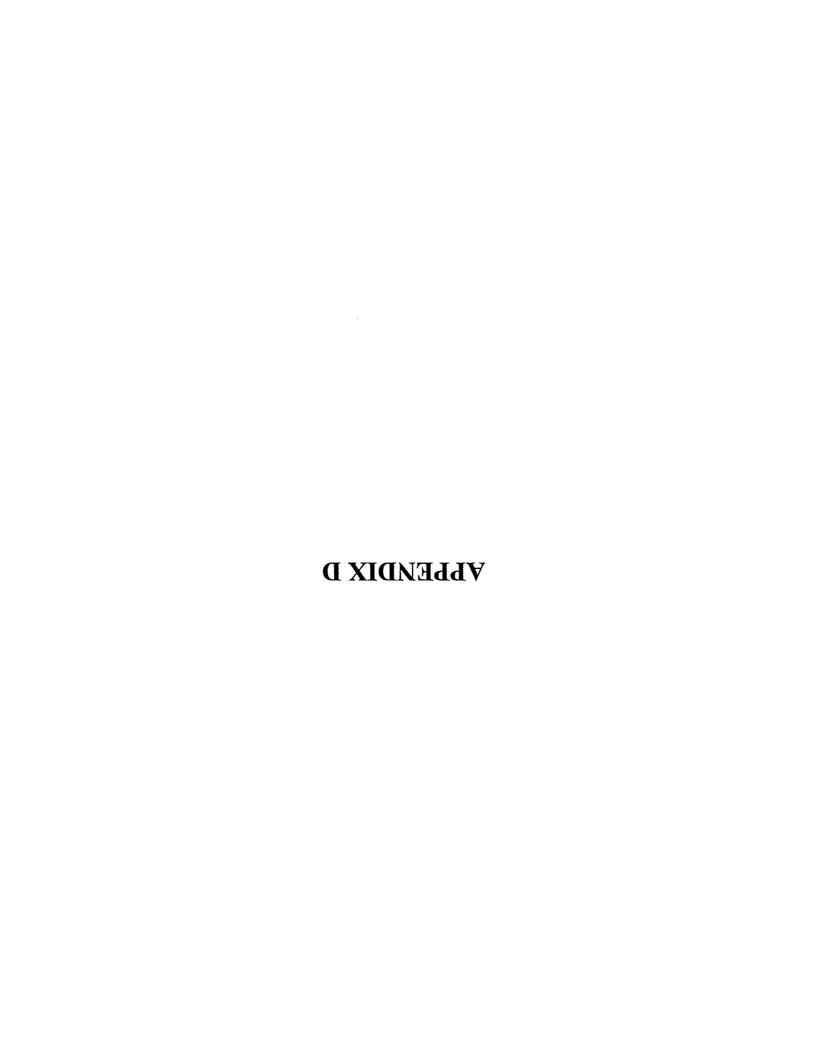
Pane SOAS CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

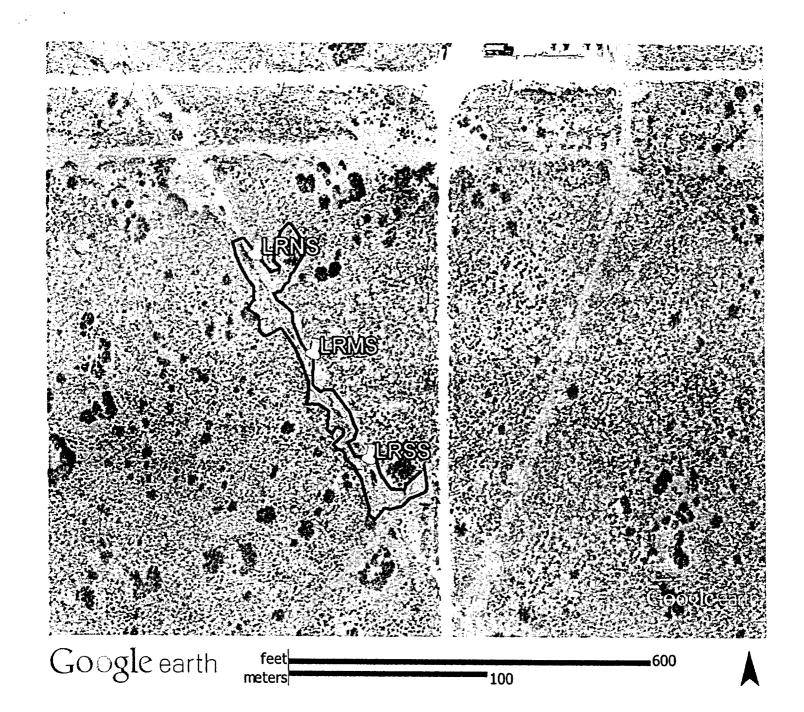
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(505) 393-2326 FAX (505) 393-2476

Page 15 of 15 TAT basbast NPDES Livingston Ridge SWD Water Line RUSH TAT (Pre-Schedule) 24, 48, 72 hrs **NAS** × × × Chlorides **Eddy County** 103-2020 TRRP M.A.O.M 1DF Temperature Upon Receipt: × × × OCs Free of Headspace? × BTEX 8021B/5030 of BTEX 8260 Volatiles x Standard Metals: As Ag Ba Cd Cr Pb Hg Se Laboratory TCLP: TOTAL: SAR / ESP / CEC Anions (CI, SO4, Alkalinity) Project Name: PO#: Project #: Project Loc: Cations (Ca, Mg, Na, K) Report Format: 9001 XT 2001 XT :HGI Ę G Time × × × × × × × M3108 1.814 acannon@yatespetroleum.com Please show BTEX results as mg/kg. Please put chlorides on a S S S S S S 11/0/11 Date Other (Specify) None _€O_zS_zBN HOSN OSZH нсі 575-748-4131 HNO eol Total #. of Containers beld Filtered Fax No: e-mail: 1:23 PM 1:35 PM 1:43 PM 1:29 PM 1:40 PM 1:48 PM 1:54 PM 1:20 PM Time Sampled 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 11/4/2013 Date Sampled Thank you TPH: 8015B, BTEX: 8021B. 9 14. 16. 12 Ending Depth ō ã Š 4 Time Time Time 16 12 14. 9 ò ō Beginning Depth 4 575-748-4111 or 575-513-8799 Yates Petroleum Corporation separate report. 11/10/13 Date 105 South 4th Street Artesia, NM 88210 STANT STANT Amber Cannon FIELD CODE Sampler Signature: Company Address: **CLINION** Project Manager: Company Name Telephone No: City/State/Zip: Special Instructions LR 5-14 39 LR 5-16 36 LR 5-10 LR 5-12 Umbrul LR 5-6 LR 5-4 75 LR 5-8 LR 5-2 Relinquished by: Mauished by: (lab use only) ORDER #: (kjuo esu del) # 8A-

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LIVINGSTON RIDGE SWD WATER LINE

Cardinal Laboratories

Sample Area	Sample Date	Sample Type	Depth	Chlorides
Release Area	1/16/2014	Grab/Core Rig	20.	11,700
Release Area	1/16/2014	Grab/Core Rig	25'	14,800
Release Area	1/16/2014	Grab/Core Rig	30.	3,800
Release Area	1/16/2014	Grab/Core Rig	35.	5,120
Release Area	1/16/2014	Grab/Core Rig	40.	2,160
Release Area	1/16/2014	Grab/Core Rig	45.	5,120
Release Area	1/16/2014	Grab/Core Rig	50.	6,400
Release Area	1/16/2014	Grab/Core Rig	55'	208
Release Area	1/16/2014	Grab/Core Rig	20.	12,000
Release Area	1/16/2014	Grab/Core Rig	25'	9,200
Release Area	1/16/2014	Grab/Core Rig	30.	3,000
Release Area	1/16/2014	Grab/Core Rig	35.	160
Release Area	1/16/2014	Grab/Core Rig	40.	1,260
Release Area	1/16/2014	Grab/Core Rig	45	592
Release Area	1/16/2014	Grab/Core Rig	20.	384
Release Area	1/16/2014	Grab/Core Rig	55'	752
Release Area	1/16/2014	Grab/Core Rig	20.	8,260
Release Area	1/16/2014	Grab/Core Rig	25.	3,600
Release Area	1/16/2014	Grab/Core Rig	30.	3,280
Release Area	1/16/2014	Grab/Core Rig	35'	144
Release Area	1/16/2014	Grab/Core Rig	40.	192
Release Area	1/16/2014	Grab/Core Rig	45'	528
Release Area	1/16/2014	Grab/Core Rig	50,	128
Release Area	1/16/2014	Grab/Core Rig	55.	192

Livingston Ridge Release Analytical Report H400165 Summary

Site Ranking is ZERO (0). Depth to Ground Water >100' (100'-125' PER TREND MAP)

All results are ppm. Chlorides for documentation.

Released: 3200 B/PW, 50 B/O; Recovered: 480 B/PW, 30 B/O. Release Date: 10/27/2013. 2RP-2044



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

01/20/2014

Sampling Date:

01/16/2014

Reported:

01/23/2014

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

** (See Notes)

RPD

Qualifier

Project Number:

205-2020

Sample Received By:

Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LRSS 40 (H400165-05)

Chloride, SM4500Cl-B	mg/	kg	Analyz	ed By: AP			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC

Chloride 2160 16.0 01/23/2014 ND 416 104 400 0.00

Sample ID: LRSS 45 (H400165-06)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	01/23/2014	ND	416	104	400	0.00	

Sample ID: LRSS 50 (H400165-07)

Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	01/23/2014	ND	416	104	400	0.00	

Sample ID: LRSS 55 (H400165-08)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/23/2014	ND	416	104	400	0.00	

Sample ID: LRMS 20 (H400165-09)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	01/23/2014	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim and ever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after complet ion of the applicable service. In no event shall Cardinal be liable for incider claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



YATES PETROLEUM CORPORATION

AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received:

01/20/2014

Sampling Date:

01/16/2014

Reported:

01/23/2014

Sampling Type:

Project Name:

Soil

Sampling Condition:

** (See Notes)

Project Number:

Analyte

205-2020

Sample Received By:

Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: LRMS 25 (H400165-10)

Chloride, SM4500Cl-B

Analyzed By: AP

True Value QC

Qualifier

RPD

0.00

Chloride

Chloride

Chloride

Result 9200

Result

3000

Result

160

01/23/2014 16.0

Analyzed

Analyzed

01/23/2014

LIVINGSTON RIDGE SWD WATER LINE

Reporting Limit

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Method Blank ND

BS 416 % Recovery 104

400

Sample ID: LRMS 30 (H400165-11)

Chloride, SM4500CI-B

Analyte

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AP

Method Blank

ND

BS

416

% Recovery

104

True Value QC

400

RPD

Qualifier

Sample ID: LRMS 35 (H400165-12)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyzed 01/23/2014

Method Blank ND

416

% Recovery

True Value QC

RPD

0.00

Qualifier

0.00

Sample ID: LRMS 40 (H400165-13)

Chloride, SM4500CI-B

Result

1260

592

Analyzed By: AP

104

400

mg/kg

Analyzed

Method Blank

BS

% Recovery

True Value QC

RPD

Qualifier

Chloride

Chloride

Sample ID: LRMS 45 (H400165-14)

Chloride, SM4500CI-B

01/23/2014

Analyzed

01/23/2014

ND

Method Blank

ND

416

85

416

104

400

True Value QC

400

0.00

mg/kg

Analyzed By: AP

% Recovery

104

RPD

0.00

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celley D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 10



YATES PETROLEUM CORPORATION

AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received:

Chloride, SM4500CI-B

01/20/2014

Sampling Date:

01/16/2014

Reported:

01/23/2014

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

mg/kg

Sampling Condition:

** (See Notes)

Project Number:

205-2020

Sample Received By:

Jodi Henson

Analyzed By: AP

Project Location: EDDY COUNTY, NM

Sample ID: LRMS 50 (H400165-15)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	01/23/2014	ND	416	104	400	0.00	
Sample ID: LRMS 55 (H4	00165-16)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	01/23/2014	ND	416	104	400	0.00	
Sample ID: LRNS 20 (H4	00165-17)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8260	16.0	01/23/2014	ND	416	104	400	0.00	
Sample ID: LRNS 25 (H4	00165-18)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	01/23/2014	ND	416	104	400	0.00	
Sample ID: LRNS 30 (H4	00165-19)								
Chloride, SM4500CI-B	mg	j/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	01/23/2014	ND	416	104	400	0.00	

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Celey D. Keine



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received:

01/20/2014

Sampling Date:

01/16/2014

Reported:

01/23/2014

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

** (See Notes)

Project Number:

Sample Received By:

Jodi Henson

Project Location:

205-2020

EDDY COUNTY, NM

Sample ID: LRNS 35 (H400165-20)

Chloride, SM4500CI-B	mg	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/23/2014	ND	416	104	400	0.00	

Sample ID: LRNS 40 (H400165-21)

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	01/23/2014	ND	416	104	400	0.00	

Sample ID: LRNS 45 (H400165-22)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	01/23/2014	ND	416	104	400	0.00	

Sample ID: LRNS 50 (H400165-23)

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	01/23/2014	ND	416	104	400	0.00	

Sample ID: LRNS 55 (H400165-24)

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	01/23/2014	ND	416	104	400	0.00	

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Celey D. Kune



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 D. Keena

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

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TAT brabnat2 NPDES SUSH TAT (Pre-Schedule) 24, 48, 72 hrs Livingston Ridge SWD Water Line AAS Chlorides × Eddy County 205-2020 TRRP NO.R.M. 105 BTEX 8021B/5030 or BTEX 8260 Analyze x Standard TCLP: Project Name: PO #: Project Loc: Project #: etions (Ca. Mg. Na. K) Report Format: 9001 XT 2108 M&108 :HdI 1.814 acannon@yatespetroleum.com ഗ S S ဟ S တ ဟ 120 Other (Specify) anoM COSSEN HOBN OSEH ЮН 575-748-4131 ⁶ОNН Fotal #. of Containers benetli7 blei e-mail: Fax No: 1:04 PM 9:43 AM 1:47 PM 1:56 PM 9:26 AM 9:36 AM 1:28 PM 1:10 PM Time Sampled 1/16/2014 1/16/2014 1/16/2014 1/16/2014 1/16/2014 1/16/2014 1/16/2014 1/16/2014 Date Sampled ω 22 25 30, 35 20 20 40, 45 4 Ending Depth Janvar Time 55 20, 30, 25 35 45 50 5 575-748-4111 or 575-513-8799 Beginning Depth Yates Petroleum Corporation PAGE 1 Date Date Company Address: 105 South 4th Street Artesia, NM 88210 Sampler Signature: (Chybol) Amber Cannon FIELD CODE 20100 HH Project Manager: Company Name Telephone No: City/State/Zip: Special Instructions: LRSS 25 LRSS 20 LRSS 30 LRSS 35 LRSS 40 LRSS 45 LRSS 50 A LRSS 55 Relinquished by: Relinquished by: ORDER#: lab use only (klno eau del) # BAL

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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Project Name: Livingston Ridge SWD Water Line

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

Project Manager: Amber Cannon

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

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	Eddy County	205			ä			098	BTEX 8021B/5030 or BTEX 83									: Ce)	abels-oracontatificis) Custody seats on container(s position)/stels:on.cooler(s)	9	emperature Upon Receipt: 27
	۳				Analyze For:				Semivolatiles									Laboratory Comments: Sample Containes Infact VOCs Free of Headspace	nidiretts)zer Is on containe Is on coolers	Sample Hand Delivered by Sampler/Client Re by Courier? UPS	Rec
			lard		lag Tag	Н			Volatiles	-					·				88		į
			x Standard			4	_	-5	Metals: As Ag Ba Cd Cr Pb Hg SAR / ESP / CEC	-	-							2 1 8 8		nble Hand L by Sampler by Couner?	ţ.
			×			TCLP:	TOTAL:		Anions (Cl, SO4, Alkalinity)	1								S. Eggt	abels ouco Custody sea ensteady sea	ople Ha by Sam by Cour	pera
#	ö	PO #							Cations (Ca, Mg, Na, K)											Sam	Tea
Project #:	Project Loc:	٣	rmat						9001 XT 3001 XT :H9T										° N	۵	
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			æ	2			ŀ	Σ	DW=Drinking Water SL=Sludge	Ű	0,	"	"	0,	0,	တ	0)		, t	۵	
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	·					· ·			Date Sampled	1/16/2014	1/16/2014	1/16/2014	1/16/2014	1/16/2014	1/16/2014	1/16/2014	1/16/2014	53	Regived by: $\mathcal{C}(\mathcal{O}\mathcal{A}_{\mathcal{L}})$	Received by:	Received by ELOT
		·		(Ending Depth	20.	25'	30,	35'	40.	45'	50.	55'	of.			Time
5			8799		7				Beginning Depth	20.	25'	30.	35,	40.	45'	50,	55'	= 2	Ĕ	Ĕ	<u> </u>
um Corporati	h Street	88210	1 or 575-513-)				10 Jan 1982										PAGE 2 OF	Date	Date	Date
Yates Petroleum Corporation	: 105 South 4tf	Artesia, NM 88210	575-748-4111 or 575-513-8799		₹		ر ا	ノロア	FIELD CODE					•				-	χ		
Company Name	Company Address: 105 South 4th Street	City/State/Zip:	Telephone No:	Sampler Signature/		(*) (*) (*)	ションウサギ "		: E	LRMS 20	LRMS 25	LRMS 30	LRMS 35	LRMS 40	LRMS 45	LRMS 50	LRMS 55	pecial Instructions:	elinquished by: Und Leanner	elinquished by:	kelinquished by:
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井の仕

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

Page 10 of 10

Livingston Ridge SWD Water Line

Project Name:

Project #:

Eddy County 205-2020 TRRP

Project Loc:

NPDES

Report Format: X Standard

acannon@yatespetroleum.com

575-748-4131

Fax No: e-mail:

DUNTON

Sampler Signature: (

-AB # (lab use only)

575-748-4111 or 575-513-8799

Telephone No:

Artesia, NM 88210

City/State/Zip:

Yates Petroleum Corporation

Company Name

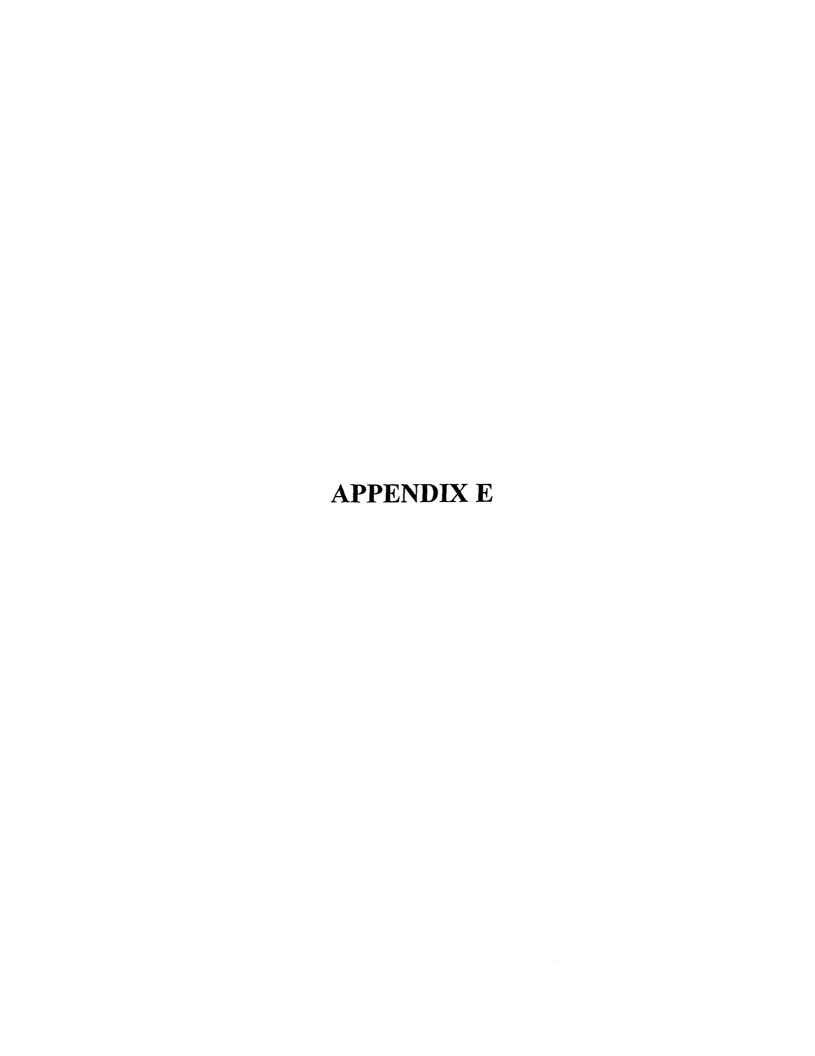
Amber Cannon

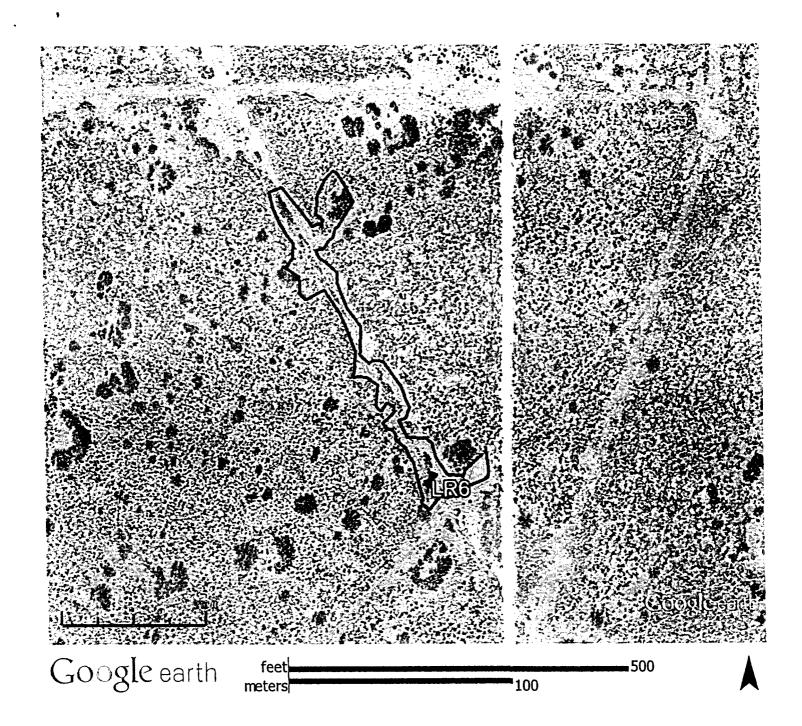
Project Manager:

Company Address: 105 South 4th Street

PO #

TAT brabnat2 RUSH TAT (Pre-Schedule) 24, 48, 72 hrs **AAS** Chlorides N.S.O.N 3CI BTEX 8021B/5030 or BTEX 8260 Analyze atala: As Ag Ba Cd Cr Pb Hg Sa TOTAL Injous (CI, SO4, Alkalinity) Cations (Ca, Mg, Na, K) 9001 XT **1X 1009** :HdJ 9108 M2108 1.814 :Hq1 S ഗ S တ ഗ S S S Other (Specify) Preservation & # of Containers None Na₂S₂O₃ HOEN *os*H HCI ₩М resi #. of Containers ield Filtered 4:19 PM 4:27 PM 4:00 PM 4:05 PM 4:12 PM 4:38 PM 4:49 PM 5:00 PM Time Sampled Received by ELOT 1/16/2014 1/16/2014 1/16/2014 1/16/2014 1/16/2014 1/16/2014 1/16/2014 1/16/2014 Date Sampled 4) w 吊 55 25 20 8 35 45 20, 5 Ending Depth Time 55 50 20 25 30 35 40 45 Beginning Depth PAGE Date Date HUDDIES FIELD CODE Special Instructions: 20 LRNS 35 LRNS 40 LRNS 45 23 LRNS 50 24 | LRNS 55 LRNS 20 LRNS 25 LRNS 30 mbe aquished by: Relinquished by: ORDER#: (lab use only B <u>o</u>





Livingston Ridge Release Map #5 2/19/2014 Sampling Event

LIVINGSTON RIDGE SWD WATER LINE

Cardinal Laboratories

Analytical Report- H400528	Sample Area	Sample Date	Sample Type	Depth	BTEX GRO DRO	GRO	DRO	TOTAL	Chlorides
LR 6-1	Release Area	2/19/2014	Grab/Backhoe	1.	QN	QN	QΝ	ND	624
LR 6-2	Release Area	2/19/2014	Grab/Backhoe	2'	Q	9	Q	ND	12,000
LR 6-3	Release Area	2/19/2014	Grab/Backhoe	3.	QN	2	Q	ND	10,800
LR 6-4	Release Area	2/19/2014	Grab/Backhoe	4.	QN	ð	Q	QN	12,800
LR 6-5	Release Area	2/19/2014	Grab/Backhoe	5.	N	Q	Q	ND	21,800
LR 6-6	Release Area	2/19/2014	Grab/Backhoe	6.	QN	Q	Q	ND	20,200
LR 6-7	Release Area	2/19/2014	Grab/Backhoe	7.	Q	g	Q.	QN	16,000

Site Ranking is ZERO (0). Depth to Ground Water >100' (100'-125' PER TREND MAP)

Livingston Ridge Release Analytical Report H400528 Summary

All results are ppm.Chlorides for documentation.

Released: 3200 B/PW, 50 B/O; Recovered: 480 B/PW, 30 B/O. Release Date: 10/27/2013. 2RP-2044



March 03, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: LIVINGSTON RIDGE SWD WATER LINE

Enclosed are the results of analyses for samples received by the laboratory on 02/21/14 9:50.

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.

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 AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

02/21/2014

Sampling Date:

02/19/2014

Reported:

03/03/2014

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Kathy Perez

Project Location: EDDY COUNTY, NM

Sample ID: LR 6-1 (H400528-01)

BTEX 8260B	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	02/28/2014	ND	2.58	129	2.00	4.12	
Toluene*	<0.050	0.050	02/28/2014	ND	2.55	127	2.00	0.671	
Ethylbenzene*	<0.050	0.050	02/28/2014	ND	2.37	118	2.00	0.456	
Total Xylenes*	<0.150	0.150	02/28/2014	ND	7.21	120	6.00	1.13	
Total BTEX	<0.300	0.300	02/28/2014	ND					
Surrogate: Dibromofluoromethane	93.6	% 61.3-14	2						
Surrogate: Toluene-d8	104	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	101	% 65.7-14	1						
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	02/26/2014	ND	204	102	200	5.45	
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	199	99.7	200	2.11	
Surrogate: 1-Chlorooctane	93.5	% 65.2-14	0						
Surrogate: I-Chlorooctadecane	98.2	% 63.6-15	4						

*=Accredited Analyte Cardinal Laboratories

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Celeg D. Kreine



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

02/21/2014

Sampling Date:

02/19/2014

Reported:

03/03/2014

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Kathy Perez

Project Location:

EDDY COUNTY, NM

Sample ID: LR 6-2 (H400528-02)

BTEX 8260B	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	02/28/2014	ND	2.58	129	2.00	4.12	
Toluene*	<0.050	0.050	02/28/2014	ND	2.55	127	2.00	0.671	
Ethylbenzene*	<0.050	0.050	02/28/2014	ND	2.37	118	2.00	0.456	
Total Xylenes*	<0.150	0.150	02/28/2014	ND	7.21	120	6.00	1.13	
Total BTEX	<0.300	0.300	02/28/2014	ND					
Surrogate: Dibromofluoromethane	94.8	% 61.3-14	2		dd				
Surrogate: Toluene-d8	104	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	105	% 65.7-14	1						
ТРН 8015М	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	02/26/2014	ND	204	102	200	5.45	
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	199	99.7	200	2.11	
Surrogate: 1-Chlorooctane	90.2	% 65.2-14	0	***************************************					
Surrogate: 1-Chlorooctadecane	89.9	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



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

Fax To:

Received:

02/21/2014

03/03/2014

Sampling Date:

02/19/2014

Reported:

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Kathy Perez

Project Location:

EDDY COUNTY, NM

Sample ID: LR 6-3 (H400528-03)

BTEX 8260B	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	02/28/2014	ND	2.58	129	2.00	4.12	
Toluene*	<0.050	0.050	02/28/2014	ND	2.55	127	2.00	0.671	
Ethylbenzene*	<0.050	0.050	02/28/2014	ND	2.37	118	2.00	0.456	
Total Xylenes*	<0.150	0.150	02/28/2014	ND	7.21	120	6.00	1.13	
Total BTEX	<0.300	0.300	02/28/2014	ND					
Surrogate: Dibromofluoromethane	97.5 9	61.3-14	2						
Surrogate: Toluene-d8	100 9	6 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	102 %	65.7-14	1						
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	02/26/2014	ND	204	102	200	5.45	
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	199	99.7	200	2.11	
Surrogate: 1-Chlorooctane	91.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	93.6	% 63.6-15	i4						

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Celen Di Kreine



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

02/21/2014

Sampling Date:

02/19/2014

Reported:

Sampling Type:

Soil

03/03/2014

Cool & Intact

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Project Number:

NONE GIVEN

Sample Received By:

Kathy Perez

Project Location:

EDDY COUNTY, NM

Sample ID: LR 6-4 (H400528-04)

BTEX 8260B	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	02/28/2014	ND	2.58	129	2.00	4.12	
Toluene*	<0.050	0,050	02/28/2014	ND	2.55	127	2.00	0.671	
Ethylbenzene*	<0.050	0.050	02/28/2014	ND	2.37	118	2.00	0.456	
Total Xylenes*	<0.150	0.150	02/28/2014	ND	7.21	120	6.00	1.13	
Total BTEX	<0.300	0.300	02/28/2014	ND					
Surrogate: Dibromofluoromethane	95.6	% 61.3-14	22				Printed and Auto-		······································
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	104	% 65.7-14	1						
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	02/26/2014	ND	204	102	200	5.45	
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	199	99.7	200	2.11	
Surrogate: 1-Chlorooctane	91.7	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	94.0	% 63.6-15	i <i>4</i>						

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*=Accredited Analyte

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Celey D. Keene



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

02/21/2014

Sampling Date:

02/19/2014

Reported:

Sampling Type:

Soil

Project Name:

03/03/2014

Sampling Condition:

Cool & Intact

LIVINGSTON RIDGE SWD WATER LINE NONE GIVEN

Sample Received By:

Kathy Perez

Project Number: Project Location:

EDDY COUNTY, NM

Sample ID: LR 6-5 (H400528-05)

BTEX 8260B	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	02/28/2014	ND	2.58	129	2.00	4.12	
Toluene*	<0.050	0.050	02/28/2014	ND	2.55	127	2.00	0.671	
Ethylbenzene*	<0.050	0.050	02/28/2014	ND	2.37	118	2.00	0.456	
Total Xylenes*	<0.150	0.150	02/28/2014	ND	7.21	120	6.00	1.13	
Total BTEX	<0.300	0.300	02/28/2014	ND					
Surrogate: Dibromofluoromethane	96.0	% 61.3-14	2		,				
Surrogate: Toluene-d8	104 9	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	99.8	% 65.7-14	1						
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	02/26/2014	ND	209	105	200	0.228	
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	203	101	200	0.0533	
Surrogate: 1-Chlorooctane	77.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	81.7	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

02/21/2014

Sampling Date:

02/19/2014

Reported:

03/03/2014

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Project Location:

EDDY COUNTY, NM

Kathy Perez

Sample ID: LR 6-6 (H400528-06)

BTEX 8260B	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	02/28/2014	ND	2.58	129	2.00	4.12	
Toluene*	<0.050	0.050	02/28/2014	ND	2.55	127	2.00	0.671	
Ethylbenzene*	<0.050	0.050	02/28/2014	ND	2.37	118	2.00	0.456	
Total Xylenes*	<0.150	0.150	02/28/2014	ND	7.21	120	6.00	1.13	
Total BTEX	<0.300	0.300	02/28/2014	ND					
Surrogate: Dibromofluoromethane	96.6	% 61.3-14	2	T					
Surrogate: Toluene-d8	104	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	104	% 65.7-14	1						
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	02/26/2014	ND	209	105	200	0.228	
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	203	101	200	0.0533	
Surrogate: 1-Chlorooctane	90.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	88.7	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

any other cause whatspeever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by Clerdinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories,

Celey D. Keine



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received: Reported: 02/21/2014

Sampling Date:

02/19/2014

03/03/2014

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Kathy Perez

Project Location:

EDDY COUNTY, NM

Sample ID: LR 6-7 (H400528-07)

BTEX 8260B	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	02/28/2014	ND	2.58	129	2.00	4.12	
Toluene*	<0.050	0.050	02/28/2014	ND	2.55	127	2.00	0.671	
Ethylbenzene*	<0.050	0.050	02/28/2014	ND	2.37	118	2.00	0.456	
Total Xylenes*	<0.150	0.150	02/28/2014	ND	7.21	120	6.00	1.13	
Total BTEX	<0.300	0.300	02/28/2014	ND					
Surrogate: Dibromofluoromethane	97.2	% 61.3-14	2				The state of the s		
Surrogate: Toluene-d8	102	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	103	% 65.7-14	1						
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	02/27/2014	ND	220	110	200	0.572	
DRO >C10-C28	<10.0	10.0	02/27/2014	ND	215	108	200	0.216	
Surrogate: 1-Chlorooctane	89.5	% 65.2-14	0	· · · · · · · · · · · · · · · · · · ·					
Surrogate: 1-Chlorooctadecane	91.4	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, wethout limitation, business interruptions, loss of use, or loss of profits incurred by claimt, its subcidaries, affiliates or successions arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. The produced except in full with written approval of Cardinal Laboratories.

Celey D. 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 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

Cardinal Laboratories *=Accredited Analyte

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Celey & Keine

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST) OL 96	Livingston Ridge SWD Water Line	Project #:	Loc: Eddy County	PO#: 205-2020	at: X Standard TRRP NPDES		Analyze For:	TCLP:	09 PS	TPH: TX 1006 TX 1006 Cations (Ca, Mg, Na, K) Anions (Cl, SO4, Alkalinity) SAR / ESP / CEC Metals: As Ag Ba Cd Cr Pb Hg: RCI Samivolatiles RCI SAR SAR SAR SAR SAR SAR SAR SAR SAR SAR	×	X		×	×	×	×		Laboratory Comments: Sample Cortaines Infactors (で) N VOCs Free of Headspace?		Sample Hand Delivered N by Sampler/Client Rep.? On N by Couries? LIDS DHI Fedey I one Ste	
:USTODY RECO		Project Name:	Proj	Project Loc:	·	Report Format:	leum.com			Matrix	TPH: 418.1 8015M 801 OW=Orlnkling Water S=SoluSolid OW=Office Specify Other Owner Groundwater S=SoluSolid Owner (Specify)	×	× s	× s	×	×	×	×		rides on a	Date Time 7.53	Date Time	Date
CHAIN OF C						4131	acannon@yatespetroleum.com		:	Preservation & # of Containers	None Na ₂ S ₂ O ₃ NaOH H ₂ SO ₄ HCI				-					. Please put chlorides on	7	0	かり 意とある はなくない
) 393-2476					Fax No: 575-748-4131	e-mail: <u>acann</u>			Pa	Fleid Filtered Total #, of Containers ice HQ2		AM 1 X	AM 1 X	AM 1 X	AM 1	AM 1	AM 1		results as mg/kg			聖子 打 いる 株分け あまかり
	(505) 393-2326 FAX (505) 393-2476					Fax	<u></u>				Date Sampled	2/19/2014 11:00 AM	2/19/2014 11:05 AM	2/19/2014 11:10 AM	2/19/2014 11:15	2/19/2014 11:20 AM	2/19/2014 11:25 AM	2/19/2014 11:30 AM		Please show BTEX results as mg/kg.	MATTER	ived by	had by El OT.
	(505)					·	7				Ending Depth	-	2' 2/1	3' 2/1	4' 2/1	5' 2/1	6' 2/1	7. 2/1	-	į		Received	Dondond
		:	5		:	3799	Jannar				Beginning Depth	-	2'	3,	4.	2,	9	7.		EX: 802 Than	Time	Time	Time
	ES IM 88240	nor	Yates Petroleum Corporation	th Street	88210	575-748-4111 or 575-513-8799	$\frac{1}{2}$													TPH: 8015B, BTEX: 8021B. separate report. Thank yo	Date	Date	Date
	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240	. Amber Cannon	•	ss: 105 South 4	Artesia, NM 88210	575-748-411	re: Umbel		۵ ا ا	0 ()	FIELD CODE								,	zdes HdT			
1	ARDINAL I	Project Manager:	Company Name	Company Address: 105 South 4th Street	City/State/Zip:	Telephone No:	Sampler Signature:		ない。 (Vine) - 1. (Vine)	うプナエ #当品		LR 6-1	LR 6-2	LR 6-3	LR 6-4	LR 6-5	LR 6-6	LR 6-7		ecial Instructions:	finguished by:	1	
W.	刈							·	(Klub esn q	NOE F	LAB # (Isb use only)	_	C	3	ב	سَ	٩	Γ		ecial	induis	induls	200

#3#



March 03, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: LIVINGSTON RIDGE SWD WATER LINE

Enclosed are the results of analyses for samples received by the laboratory on 02/21/14 9:50.

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.

Celey D. Keene

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 AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

02/21/2014

Sampling Date:

02/19/2014

Reported:

03/03/2014

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Kathy Perez

Project Number:
Project Location:

EDDY COUNTY, NM

Sample ID: LR 6-1 (H400528-01)

Sample ID: LR 6-2 (H400528-02)

|--|

mg/kg

Analyzed By: AP

Analyte
Analyte

Chloride, SM4500Ci-B

Result Repor

Reporting Limit

Analyzed

02/27/2014

Method Blank

BS % Recovery

True Value QC

400

RPD 3.92

RPD

3.92

Qualifier

Chloride

Chloride

12000

624

16.0

16.0

Analyzed By: AP

mg/kg

Result Reporting Limit

Analyzed 02/27/2014

Method Blank

ND

BS

416

416

% Recovery

104

True Value QC

Qualifier

Sample ID: LR 6-3 (H400528-03)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

	Analyte	
Chloride		

Analyte

Result **10800**

Reporting Limit 16.0

Analyzed 02/27/2014

Method Blank
ND

BS 416 % Recovery 104 True Value QC 400 RPD 3.92

Qualifier

Qualifier

Sample ID: LR 6-4 (H400528-04)

Chloride, SM4500Cl-B

Chloride

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed
	12800	16.0	02/27/20

elyzed 27/2014 Method Blank

BS 416 % Recovery

True Value QC 400 RPD 3.92

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



YATES PETROLEUM CORPORATION AMBER CANNON

105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

02/21/2014

Sampling Date:

02/19/2014

Reported:

03/03/2014

Sampling Type:

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Kathy Perez

Project Location:

Analyte

Analyte

EDDY COUNTY, NM

Sample ID: LR 6-5 (H400528-05)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

% Recovery

True Value QC 400

Chloride

Chloride

Chloride

Result 21800

Result

20200

Reporting Limit 16.0

Reporting Limit

16.0

Analyzedi 02/27/2014

Analyzed

02/27/2014

Method Blank ND

BS 416

BS

416

104

Qualifier

Sample ID: LR 6-6 (H400528-06)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

ND

% Recovery

True Value QC

RPD

3.92

RPD

3.92

Qualifier

Sample ID: LR 6-7 (H400528-07)

Chloride, SM4500Cl-B

Analyte

mg/kg

Analyzed By: AP

Result Reporting Limit 16000 16.0

Analyzed 02/27/2014 Method Blank ND

BS 416 % Recovery 104

104

True Value QC 400

400

RPD

3.92

Qualifier

Cardinal Laboratories

*=Accredited Analyte

including, wethout limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, recoardless of whether such

Celey D. Keene, Lab Director/Quality Manager

Celey D. Keine

Page 3 of 5



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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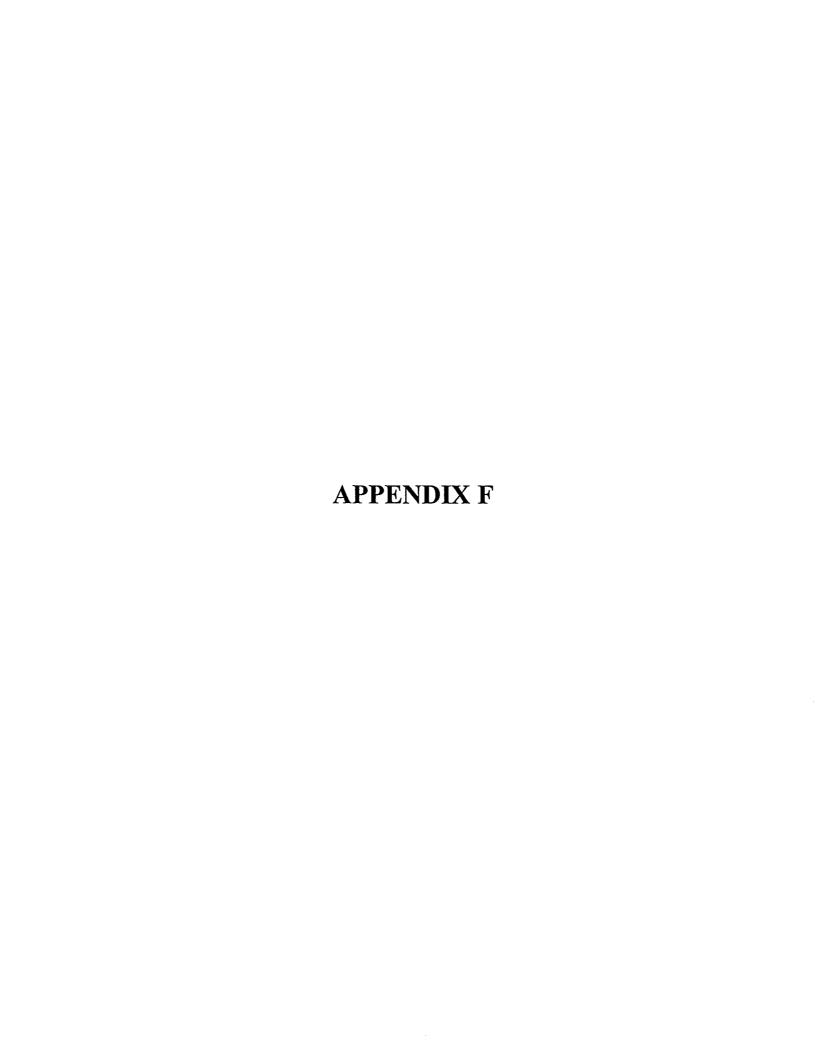
Celey Keena

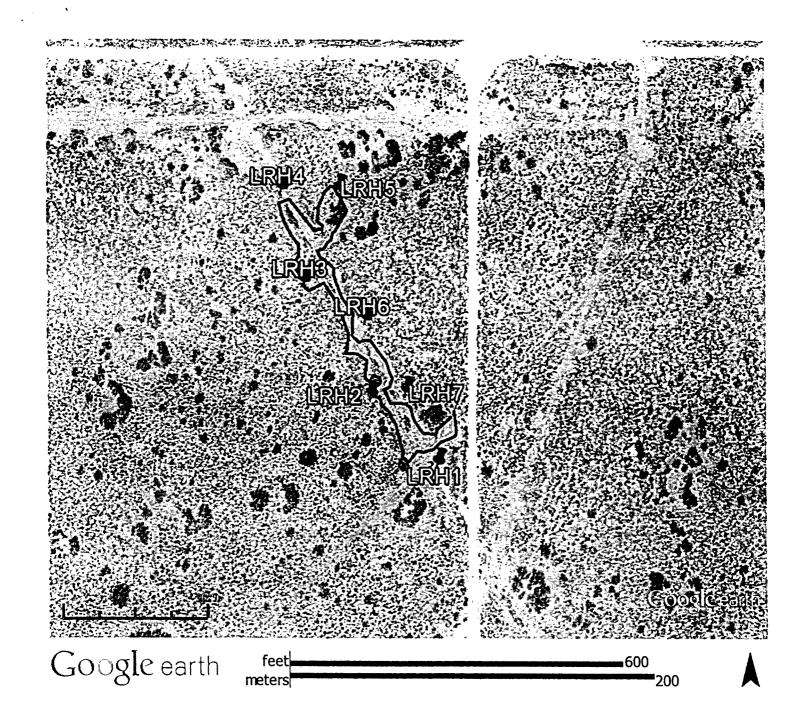
ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

TAT brebnet2 Page 5 of 5 NPDES ပ RUSH TAT (Pre-Schedule) 24, 48, 72 hrs Livingston Ridge SWD Water Line 4,3 **AAS** Chlorides VOCs Free of Headspace? Labelsion container(s), The Custody seals on container(s) Gustody seals on container(s) Eddy County Laboratory Comments: Sample Containers Intactor TRRP 205-2020 .M.A.O.I RCI by Sampler/Client Rep. ? by Courier? UPS C Temperature Upon Receipt: B1EX 8051B/2030 of B1EX 8560 Sample Hand Delivered Analyze X Standard Metals: As Ag Ba Cd Cr Pb Hg Se TCLP TOTAL nions (Cl. SO4, Alkalinity) Project Loc: Project Name: PO #: Project #: Sations (Ca, Mg, Na, K) Report Format: 9001 XT Q 13 Time × :HqT acannon@yatespetroleum.com Please show BTEX results as mg/kg. Please put chlorides on a S ഗ S S S Ó Date Other (Specify) anoN ને OSSSN HOSN *OS^zH HCI 575-748-4131 HNO × 90| otal #, of Containers ield Filtered e-mail: Fax No: 11:15 AM 11:30 AM 11:05 AM 11:10 AM 11:20 AM 11:25 AM 11:00 AM Time Sampled Received by ELO 2/19/2014 2/19/2014 2/19/2014 2/19/2014 2/19/2014 2/19/2014 2/19/2014 Date Sampled Thank you. TPH: 8015B, BTEX: 8021B. 4 'n ດົ ō ŀ Carmon Ending Depth 7 Time <u>B</u> Time 4 'n ດ້ ο̈ 575-748-4111 or 575-513-8799 Beginning Depth Yates Petroleum Corporation separate report. Date Date Date Company Address: 105 South 4th Street Artesia, NM 88210 Amber Cannon FIELD CODE ORDER# 4 400528 Sampler Signature: Project Manager: Company Name Telephone No: City/State/Zip: Special Instructions: LR 6-5 LR 6-6 LR 6-3 LR 6-2 LR 6-4 LR 6-1 LR 6-7 Relinquished by: finquished by: 200 (lab use only) (Vino sau dsi) # 8A

たの#





Livingston Ridge Release Map #6 2/19/2014 Sampling Event

LIVINGSTON RIDGE SWD WATER LINE

Cardinal Laboratories

																												_
LRH7-4	LRH7-3	LRH7-2	LRH7-1	LRH6-4	LRH6-3	LRH6-2	LRH6-1	LRH5-4	LRH5-3	LRH5-2	LRH5-1	LRH4-4	LRH4-3	LRH4-2	LRH4-1	LRH3-4	LRH3-3	LRH3-2	LRH3-1	LRH2-4	LRH2-3	LRH2-2	LRH2-1	LRH1-4	LRH1-3	LRH1-2	LRH1-1	H400530
Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Sample Area
2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	2/19/2014	Sample Date
Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	sample Type
4.	ယ္	2'	٠.	4'	ယ္	Ŋ	1.	4'	ယ္	2	1'	4"	ű	2	-:	4'	ωį	2'	-	4'	ယ္	2'	1.	4.	31	22	-:	Depur
16	16	32	ND	32	16	R	S	ND	S	S	ND	32	16	16	16	32	16	16	16	3,320	16	16	S	32	32	16	32	Chlondes

Site Ranking is ZERO (0). Depth to Ground Water >100' (100'-125' PER TREND MAP)

All results are ppm.Chlorides for documentation.

Released: 3200 B/PW, 50 B/O; Recovered: 480 B/PW, 30 B/O. Release Date: 10/27/2013. 2RP-2044



February 28, 2014

AMBER CANNON
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: LIVINGSTON RIDGE SWD WATER LINE

Enclosed are the results of analyses for samples received by the laboratory on 02/21/14 9:50.

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_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 AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received:

Chloride, SM4500CI-B

02/21/2014

Sampling Date:

02/19/2014

Reported:

02/28/2014

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

** (See Notes)

Project Number:

Sample Received By:

Project Location:

NONE GIVEN

EDDY COUNTY, NM

mg/kg

32.0

16.0

Analyzed By: AP

Kathy Perez

Sample ID: LRH1 - 1 (H400530-01)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/27/2014	ND	416	104	400	3.92	
Sample ID: LRH1 - 2 (H4	00530-02)								
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	02/27/2014	ND	416	104	400	3.92	
Sample ID: LRH1 - 3 (H4	00530-03)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/27/2014	ND	416	104	400	3.92	
Sample ID: LRH1 - 4 (H4	00530-04)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Oualifier

02/27/2014

Cardinal Laboratories

Chloride

*=Accredited Analyte

3.92

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ND

416

104

400

Celey D. Keine



YATES PETROLEUM CORPORATION

AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Analyzed By: AP

Received:

Chloride, SM4500CI-B

02/21/2014

Sampling Date:

02/19/2014

Reported:

02/28/2014

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Kathy Perez

Project Location:

EDDY COUNTY, NM

mg/kg

Sample ID: LRH2 - 1 (H400530-05)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/27/2014	ND	416	104	400	3.92	
Sample ID: LRH2 - 2 (H40	0530-06)								
Chloride, SM4500Cl-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	02/27/2014	ND	416	104	400	3.92	
Sample ID: LRH2 - 3 (H40	0530-07)								
Chloride, SM4500Cl-B	-	/kg	Analyze	d By: AP					
•	-	/kg Reporting Limit	Analyze Analyzed	d By: AP Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride, SM4500Cl-B	mg				BS 416	% Recovery	True Value QC 400	RPD 3.92	Qualifier
Chloride, SM4500CI-B Analyte	Result	Reporting Limit	Analyzed	Method Blank		•	•		Qualifier
Chloride, SM4500CI-B Analyte Chloride	mg Result 16.0	Reporting Limit	Analyzed 02/27/2014	Method Blank		•	•		Qualifier
Chloride, SM4500CI-B Analyte Chloride Sample ID: LRH2 - 4 (H40)	mg Result 16.0	Reporting Limit	Analyzed 02/27/2014	Method Blank ND		•	•		Qualifier Qualifier

Sample ID: LRH3 - 1 (H400530-09)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP				· · · · · · · · · · · · · · · · · · ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/27/2014	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be Bable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of use, or loss of profits incurred by Clardinal, regardless of whether such

Celey D. Keene



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received:

02/21/2014

Sampling Date:

02/19/2014

Reported:

02/28/2014

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Kathy Perez

Project Location:

EDDY COUNTY, NM

Sample Received By:

Sample ID: LRH3 - 2 (H400530-10)

Chloride

Chloride

Chloride

Chloride

Chloride

r	na	1	kn

Result

16.0

Result

16.0

32.0

Result

16.0

Result

16,0

Analyzed By: AP

Analyte	

Analyzed 02/27/2014

02/27/2014

02/27/2014

Analyzed

02/27/2014

Analyzed

02/27/2014

Method Blank ND

BS % Recovery

104

104

True Value QC 400

RPD

3.92

3.92

Qualifier

Sample ID: LRH3 - 3 (H400530-11)

Chloride,	SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Reporting Limit Analyzed

Reporting Limit

16.0

16.0

Method Blank ND

ND

ND

ND

BS

416

416

% Recovery True Value QC

400

RPD

Qualifier

Sample ID: LRH3 - 4 (H400530-12)

Chloride.	SM4500CI-B

ma	'ka	

Analyzed By: AP

Analyte	
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Reporting Limit Result

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed

Method Blank BS 416 % Recovery 104

True Value QC

RPD

Qualifier

Sample ID: LRH4 - 1 (H400530-13)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

400

3.92

Method Blank

True Value QC

RPD

Qualifier

Sample ID: LRH4 - 2 (H400530-14)

mg/kg

Analyzed By: AP

416

BS

416

104

% Recovery

104

400

3.92

Chloride, SM4500Cl-B

Analyte

Analyte

Method Blank BS

% Recovery

True Value QC 400

RPD Qualifier 3.92

Cardinal Laboratories

*=Accredited Analyte

within thirty (30) days after completion of the ling, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its sub

Celey D. Keena



YATES PETROLEUM CORPORATION AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received:

02/21/2014

Sampling Date:

02/19/2014

Reported:

02/28/2014

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Kathy Perez

EDDY COUNTY, NM Project Location:

Sample ID: LRH5 - 4 (H400530-20)

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	02/27/2014	ND	416	104	400	3.92	

Sample ID: LRH6 - 1 (H400530-21)

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	02/27/2014	ND	416	104	400	3.92	

Sample ID: LRH6 - 2 (H400530-22)

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	02/27/2014	ND	416	104	400	3.92	

Sample ID: LRH6 - 3 (H400530-23)

Chloride, SM4500Cl-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	02/27/2014	ND	416	104	400	3.92	

Sample TD: I RH6 - 4 (H400530-24)

Sample 2D1 Little	. (
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					<u>.</u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/27/2014	ND	416	104	400	3.92	

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Celego Frene



YATES PETROLEUM CORPORATION

AMBER CANNON 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Analyzed By: AP

Received:

02/21/2014

Sampling Date:

02/19/2014

Reported:

02/28/2014

Sampling Type:

Soil

Project Name:

LIVINGSTON RIDGE SWD WATER LINE

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Kathy Perez

Project Location:

EDDY COUNTY, NM

mg/kg

Sample ID: LRH7 - 1 (H400530-25)

Chloride,	SM4500CI-B	

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/27/2014	ND	416	104	400	3.92	
Sample ID: LRH7 - 2 (H40	00530-26)								
Chloride, SM4500Cl-B	mg/kg Result Reporting Limit		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/27/2014	ND	416	104	400	3.92	
Sample ID: LRH7 - 3 (H4	00530-27)								
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/27/2014	ND	416	104	400	3.92	
Sample ID: LRH7 - 4 (H4	00530-28)								
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	02/27/2014	ND	416	104	400	3.92	

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Celeg D. 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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Celey D. Keene

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

TAT basbnst2 Page 9 of 12 NPDES 330°C Livingston Ridge SWD Water Line RUSH TAT (Pre-Schedule) 24, 48, 72 hrs × Laboratory Comments: Sample Containes: Intact Chlorides Eddy County TRRP VOCs Free of Headspace?

Labels on container(s)
Custody seals on container(s)
Custody seals on cooler(s)
Sample Hand Delivered
by Sampler(Client Rep. ?
by Courier? UPS DHL 205-2020 M.A.O.Y 301 Temperature Upon Receipt: BTEX 80218/5030 or BTEX 8260 Analyze For Semivolatilès x Standard Netals: As Ag Ba Cd Cr Pb Hg Se Inions (Cl, SO4, Alkalinity) Project Name: Project Loc: PO#: Project #: Report Format: Time M&t08 :Hd. acannon@yatespetroleum.com S S ဟ တ Ś S ति ति Date Other (Specify) Preservation & # of Containers None COSSEN HOBN *OS^zH ЮН 575-748-4131 •ONH 90] otal #. of Containers benettii T blei e-mail: Fax No: 12:26 PM 12:02 PM 12:04 PM 12:06 PM 12:20 PM 12:22 PM 12:24 PM 12:00 PM Time Sampled Received by ELO 2/19/2014 2/19/2014 2/19/2014 2/19/2014 2/19/2014 2/19/2014 2/19/2014 2/19/2014 Date Sampled かせし anga d 4 ñ 4 ÷ က ÷ Ending Depth N Ś Time Time 4 ัง ñ Beginning Depth ñ ัณ 575-748-4111 or 575-513-8799 Yates Petroleum Corporation Tage Date Date Company Address: 105 South 4th Street Artesia, NM 88210 Lindows Amber Cannon FIELD CODE 40530 Sampler Signature: Company Name Project Manager: Telephone No: City/State/Zip: Special Instructions: ORDER# H LRH1-2 LRH1-3 LRH2-2 LRH2-3 S LRH24 LRH4 LRH2-1 LRH1-1 3 Relinquished by: Relinquished by: (lab use only) (Ylno əsu del) # 8A

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

Sample Containers Infact?

VOCs Free of Headspace?

(abels on Containers)

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(custody seals on custody seals o TAT basbrat2 × × Page 10 of 12 NPDES ပ္ SUSH TAT (Pre-Schedule) 24, 48, 72 hrs Livingston Ridge SWD Water Line 0330 AAS × sephold Eddy County TRRP 205-2020 N.O.R.M. SCI Temperature Upon Receipt: BTEX 8021B/5030 or BTEX 8260 Laboratory Comments Semivolatiles Analyze selilelo/ x Standard etals: As Ag BaiCd Cr Pb Hg Se SAR / ESP / CEC Anions (Cl, SO4, Alkalinity) Project Name: PO #: Project Loc: Project #: Cations (Ca, Mg, Na, K) Report Format: 9001 XT 2001 XT Hd. 956 Time S108 M2108 1.814 Hd. acannon@yatespetroleum.com S S ഗ Ś S Date Other (Specify) Preservation & # of Containers COSSEN HOSN OSTH нсі 575-748-4131 **МО** 90 etal #. of Containers leld Filtered Fax No: e-mail: 12:46 PM 12:40 PM 12:42 PM 12:44 PM 12:32 PM 12:34 PM 12:36 PM 12:30 PM Time Sampled Received by ELO 2/19/2014 2/19/2014 2/19/2014 2/19/2014 2/19/2014 2/19/2014 2/19/2014 2/19/2014 つせ Date Sampled SAC A 4 N ო 4 - Š 'n Ending Depth ime Time lime 4 Beginning Depth ä 'n 4 ÷ N 'n 575-748-4111 or 575-513-8799 700 Yates Petroleum Corporation Date Date Company Address: 105 South 4th Street Artesia, NM 88210 Inches Amber Cannon FIELD CODE Sampler Signature: Company Name Project Manager: Telephone No: City/State/Zip: Special Instructions LRH3-1 (O LRH3-2 (1 LRH3-3 RH3-4 LRH4-2 15 LRH4-3 (C) LRH4-4 3 LRH4-1 Sapri elinquished by: Relinquished by: Relinquished by lab use only) ORDER #: 3 σ (Vino seu del) # 8A

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

TAT brebnet2 Page 11 of 12 NPDES ပ Livingston Ridge SWD Water Line SUSH TAT (Pre-Schedule) 24, 48, 72 hrs 330 × × Laboratory Comments: Sample Containers Intact? Chlorides Eddy County TRRP 205-2020 M.A.O.M. CUSIDEN SEAS ON COOLE(S)
Sample Hand Delivered
by Sample/Client Rep: ?
by Courier? UPS DHL BCI Labels on container(s).
Custody seals on container(s
Custody seals on coolei(s). Temperature Upon Receipt: /OCs Free of Headspace? BTEX 8021B/5030 or BTEX 8260 Analyze Report Format: X Standard Vetals: As Ag Ba Cd Cr Pb Hg Se OTAL DIA nions (Cl. SO4, Alkalinity) Project Name: PO #: Project #: Project Loc: cations (Ca, Mg, Na, K) 30,0 9001 XT TX 1005 Time 3108 M&108 1.814 :HdJ acannon@yatespetroleum.com S ഗ S S S S S တ Date W=Drinking Water SL=Sludge Other (Specify) Preservation & # of Containers Hone OSSSEN HOBN *OS^zH HCI 575-748-4131 ₩О BOI otal #. of Containers leld Fittered Fax No: e-mail: 12:52 PM 12:54 PM 12:56 PM 12:50 PM 1:00 PM 1:06 PM 1:02 PM 1:04 PM Time Sampled Received by ELO 2/19/2014 2/19/2014 2/19/2014 2/19/2014 2/19/2014 2/19/2014 2/19/2014 2/19/2014 Date Sampled つせ <u>.</u>4 ñ 4 'n ÷ ัง ÷ Ending Depth Time 3 4 - က 4 Š 'n က Beginning Depth 575-748-4111 or 575-513-8799 Page Yates Petroleum Corporation Date Date Company Address: 105 South 4th Street Artesia, NM 88210 Imber Amber Cannon FIELD CODE A MADON Sampler Signature: Project Manager: Company Name Telephone No: City/State/Zip: Special Instructions: |LRH5-2 LRH6-1 4 |LRH5-3 33 LRH6-3 LRH6-2 2 + LRH6-4 20 LRH5-4 LRH5-1 JANAS JANAS Hinquished by: Relinquished by: Relinquished by: (lab use only) ORDER#: ದ್ದ (20 ন্ত (Vino seu dsi) # 8A

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

TAT brabnat2 Page 12 of 12 NPDES 33.0°° RUSH TAT (Pre-Schedule) 24, 48, 77 hrs Livingston Ridge SWD Water Line **SAR** × × Chlorides Laboratory Comments: Sample Containers Intact? Eddy County TRRP 205-2020 .M.A.O.I Labels of Container(s) Custody seals on container(s) Custody seals on container(s) Custody seals on cooler(s). RCI by Sampler/Client Rep. ? by Courier? UPS D Temperature Upon Receipt: **/OCs Free of Headspace?** BTEX 8021B/5030 or BTEX 8260 Analyze For SOMINOISMOS x Standard Netsis: Ys Yd Bs Cq Ct Sp Hd Se TCLP: TOTAL SAR / ESP / CEC Injous (Cl. SO4, Alkalinity) Project Name: Project Loc: PO#: Project #: Cations (Ca, Mg, Na, K) Report Format: 9001 XT 2001 XT Hd. Time M2108 1.814 :HdJ acannon@yatespetroleum.com GW = Groundwater S=Soil/Soild Date W=Drinking Water SL=Sludge Other (Specify) Preservation & # of Containers None CosseN HOBN OSEH нсі 575-748-4131 **ONH** 90| otal #. of Containers ield Filtered Fax No: e-mail: 1:12 PM 1:14 PM 1:16 PM 1:10 PM Time Sampled Received by ELOT 2/19/2014 2/19/2014 2/19/2014 2/19/2014 Date Sampled っても ANDUNA 4 Ending Depth Ñ 'n lme L Time Time 4 N ē 575-748-4111 or 575-513-8799 Beginning Depth Page Yates Petroleum Corporation Date Date Londan Company Address: 105 South 4th Street Artesia, NM 88210 Amber Cannon FIELD CODE SUNDON Sampler Signature: (Project Manager: Company Name Telephone No: City/State/Zip: Special Instructions: LRH7-3 LRH7-2 LRH7-4 LRH7-1 Span elinquished by: Relinquished by: (lab use only) ORDER #: X (Vino seu dai) # BAJ

