

MARTIN YATES, III
1912-1985

FRANK W. YATES
1936-1986

S.P. YATES
1914-2008



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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,

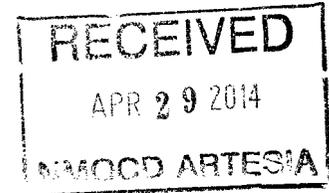
Yates Petroleum Corporation (Yates) would like to submit the following for your review regarding the release that occurred on the Livingston Ridge SWD Water Line, Section 1, T22S, R31E.

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
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 clean-up. 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 Analytical Report H400165*” (Appendix D) for the results 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 pre-work 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 all 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 it 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.

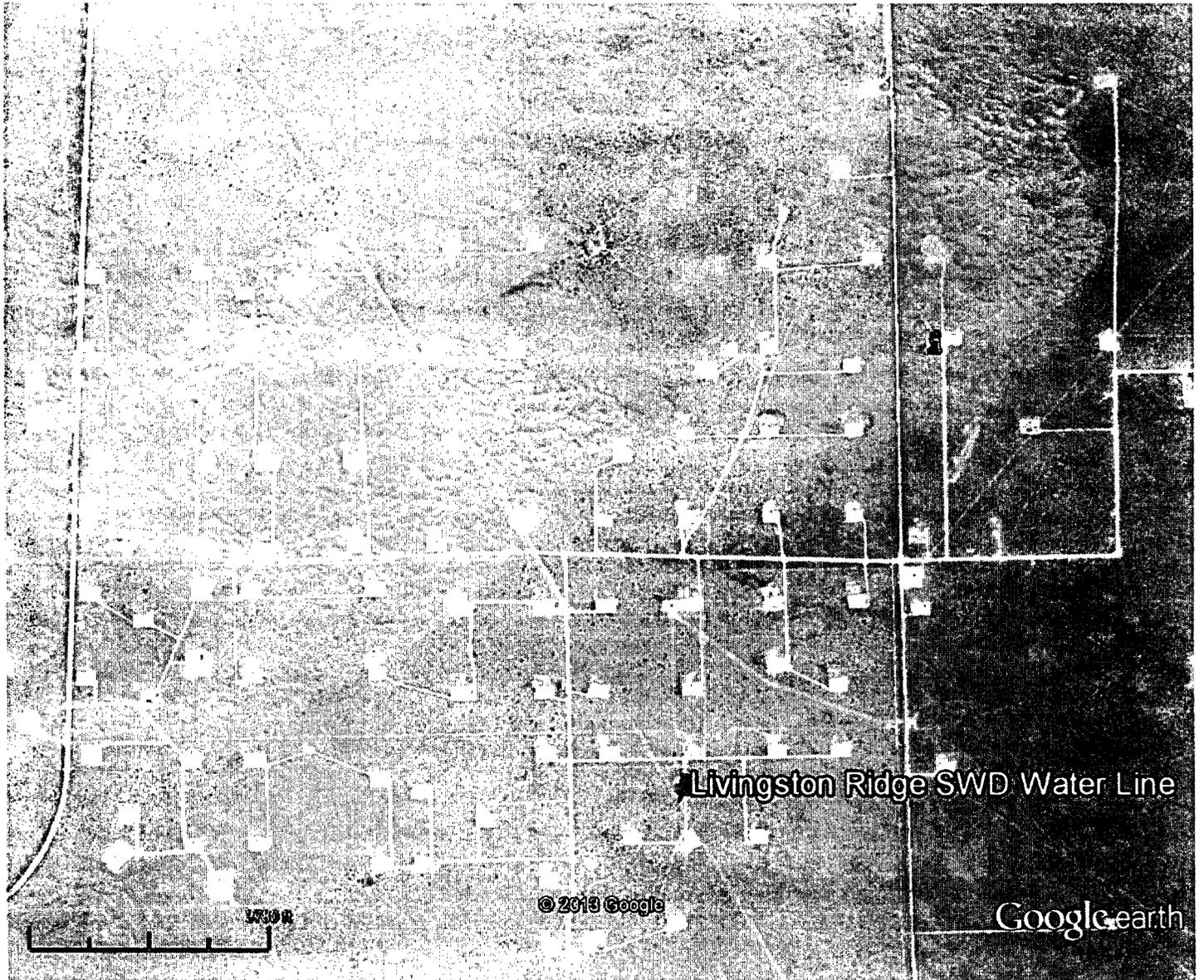
All parties involved would rather not see an interruption to the natural gas service that Transwestern provides to several States. Yates’ work plan will be able to accomplish the main restoration goals of Yates, BLM, and NMOCD without disruption to Transwestern.

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.

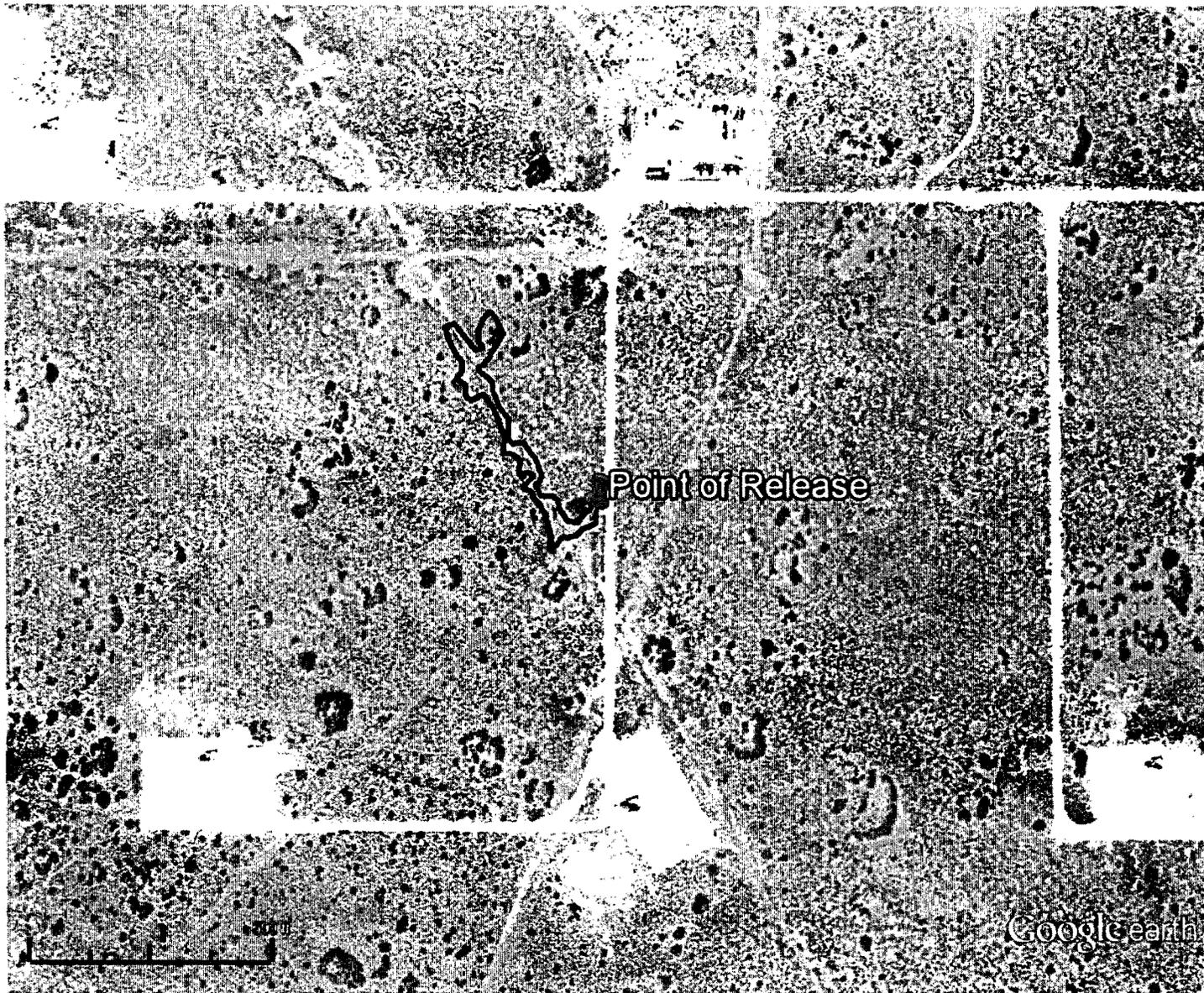
APPENDIX A



Google earth



**Livingston Ridge Release
Map #1**



Google earth

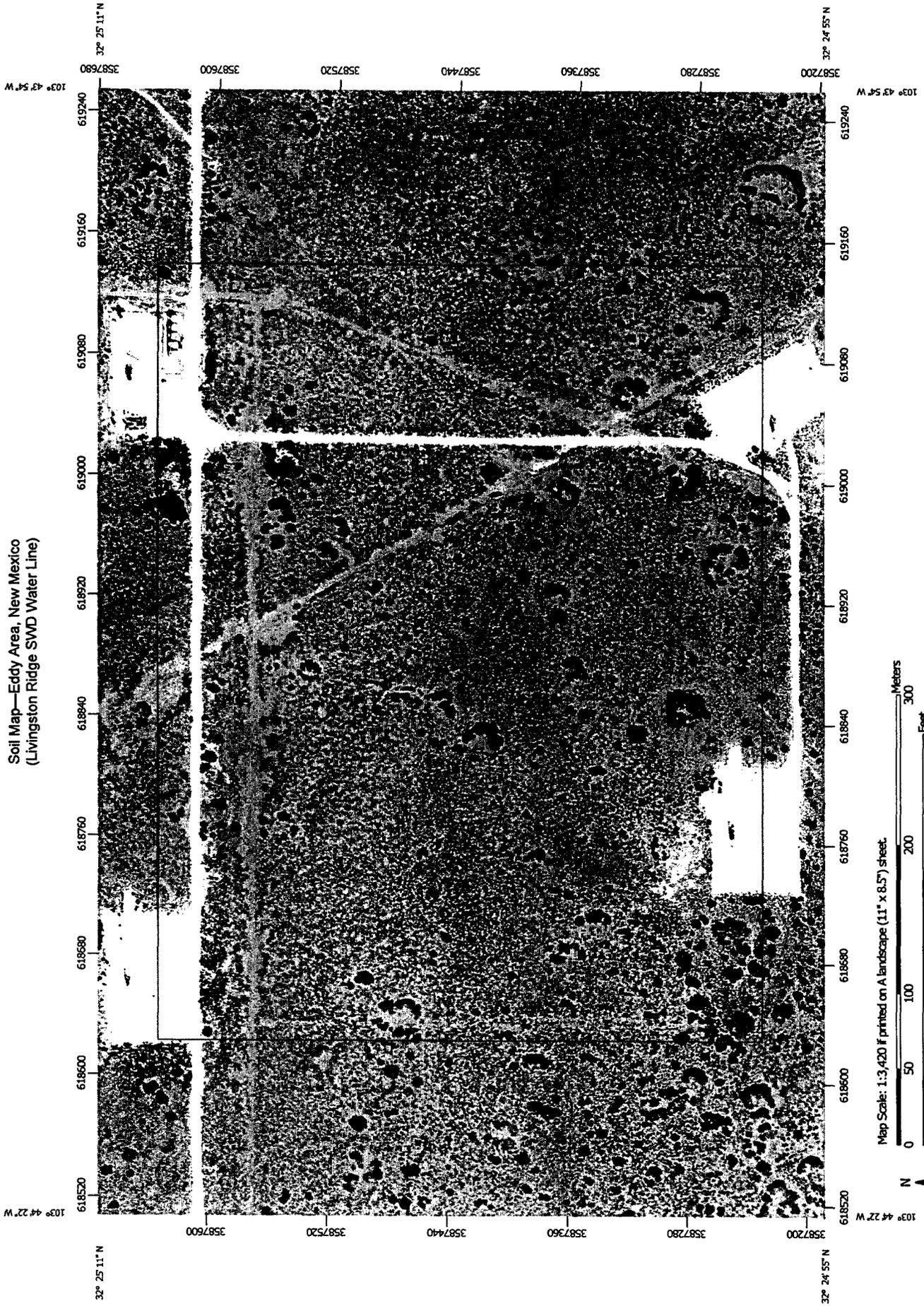
feet 1000
meters 300



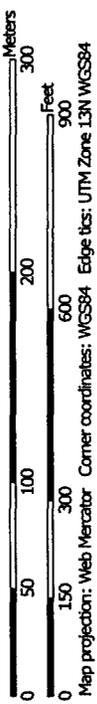
**Livingston Ridge Release
Map #2**

APPENDIX B

Soil Map—Eddy Area, New Mexico
(Livingston Ridge SWD Water Line)



Map Scale: 1:3,420 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

MAP LEGEND

	Area of Interest (AOI)		Spoil Area
	Soils		Stony Spot
	Soil Map Unit Polygons		Very Stony Spot
	Soil Map Unit Lines		Wet Spot
	Soil Map Unit Points		Other
	Special Point Features		Special Line Features
	Blowout		Water Features
	Borrow Pit		Streams and Canals
	Clay Spot		Transportation
	Closed Depression		Rails
	Gravel Pit		Interstate Highways
	Gravelly Spot		US Routes
	Landfill		Major Roads
	Lava Flow		Local Roads
	Marsh or swamp		Background
	Mine or Quarry		Aerial Photography
	Miscellaneous Water		
	Perennial Water		
	Rock Outcrop		
	Saline Spot		
	Sandy Spot		
	Severely Eroded Spot		
	Sinkhole		
	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.

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

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

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

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate 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
Survey Area Data: Version 10, Dec 17, 2013

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

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

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

Map Unit Legend

Eddy Area, New Mexico (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)

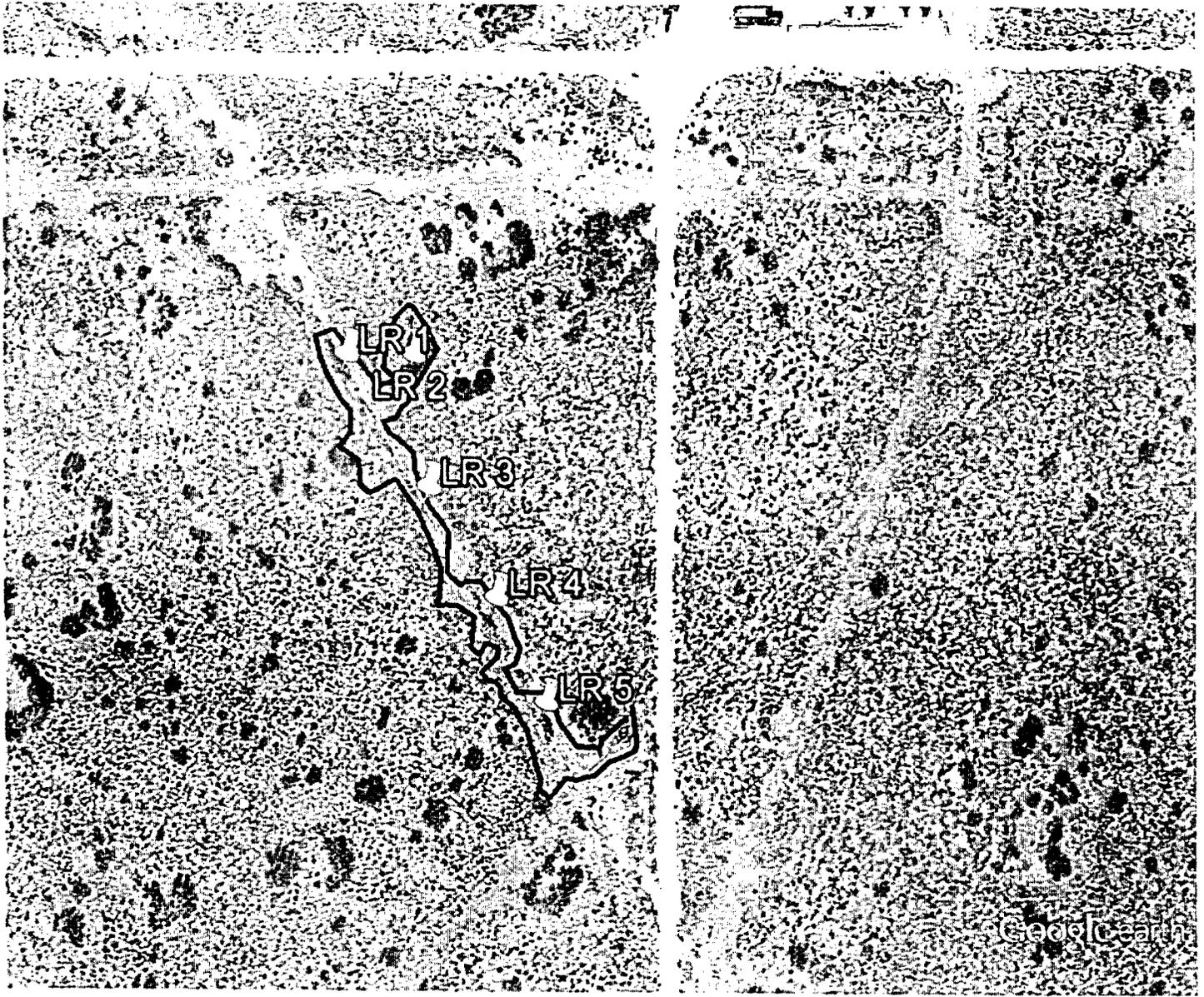
Typical profile

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

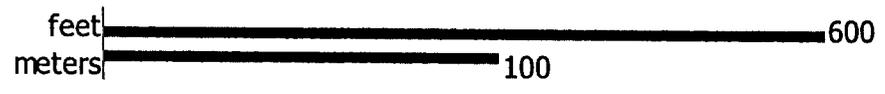
Data Source Information

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

APPENDIX C



Google earth



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

LIVINGSTON RIDGE SWD WATER LINE

Cardinal Laboratories

Analytical Report- H302701	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
LR 1-2	Release Area	11/4/2013	Grab/Backhoe	2'	ND	ND	ND	ND	10,300
LR 1-4	Release Area	11/4/2013	Grab/Backhoe	4'	ND	ND	ND	ND	21,200
LR 1-6	Release Area	11/4/2013	Grab/Backhoe	6'	ND	ND	ND	ND	29,800
LR 1-8	Release Area	11/4/2013	Grab/Backhoe	8'	ND	ND	ND	ND	16,200
LR 1-10	Release Area	11/4/2013	Grab/Backhoe	10'	ND	ND	ND	ND	10,000
LR 1-12	Release Area	11/4/2013	Grab/Backhoe	12'	ND	ND	ND	ND	18,000
LR 1-14	Release Area	11/4/2013	Grab/Backhoe	14'	ND	ND	ND	ND	16,000
LR 1-16	Release Area	11/4/2013	Grab/Backhoe	16'	ND	ND	ND	ND	14,400
LR 2-2	Release Area	11/4/2013	Grab/Backhoe	2'	ND	ND	ND	ND	14,600
LR 2-4	Release Area	11/4/2013	Grab/Backhoe	4'	ND	ND	ND	ND	14,000
LR 2-6	Release Area	11/4/2013	Grab/Backhoe	6'	ND	ND	ND	ND	10,800
LR 2-8	Release Area	11/4/2013	Grab/Backhoe	8'	ND	ND	ND	ND	12,200
LR 2-10	Release Area	11/4/2013	Grab/Backhoe	10'	ND	ND	ND	ND	17,200
LR 2-12	Release Area	11/4/2013	Grab/Backhoe	12'	ND	ND	ND	ND	20,200
LR 2-14	Release Area	11/4/2013	Grab/Backhoe	14'	ND	ND	ND	ND	15,400
LR 3-2	Release Area	11/4/2013	Grab/Backhoe	2'	ND	ND	ND	ND	6,260
LR 3-4	Release Area	11/4/2013	Grab/Backhoe	4'	ND	ND	ND	ND	11,200
LR 3-6	Release Area	11/4/2013	Grab/Backhoe	6'	ND	ND	ND	ND	25,200
LR 3-8	Release Area	11/4/2013	Grab/Backhoe	8'	ND	ND	ND	ND	14,800
LR 3-10	Release Area	11/4/2013	Grab/Backhoe	10'	ND	ND	ND	ND	13,200
LR 3-12	Release Area	11/4/2013	Grab/Backhoe	12'	ND	ND	ND	ND	12,200
LR 3-14	Release Area	11/4/2013	Grab/Backhoe	14'	ND	ND	ND	ND	19,000
LR 3-16	Release Area	11/4/2013	Grab/Backhoe	16'	ND	ND	ND	ND	12,600
LR 4-2	Release Area	11/4/2013	Grab/Backhoe	2'	ND	ND	ND	ND	22,200
LR 4-4	Release Area	11/4/2013	Grab/Backhoe	4'	ND	ND	ND	ND	11,600
LR 4-6	Release Area	11/4/2013	Grab/Backhoe	6'	ND	ND	ND	ND	23,000
LR 4-8	Release Area	11/4/2013	Grab/Backhoe	8'	ND	ND	ND	ND	12,600
LR 4-10	Release Area	11/4/2013	Grab/Backhoe	10'	ND	ND	ND	ND	21,800
LR 4-12	Release Area	11/4/2013	Grab/Backhoe	12'	ND	ND	ND	ND	24,400
LR 4-14	Release Area	11/4/2013	Grab/Backhoe	14'	ND	ND	ND	ND	26,000
LR 4-16	Release Area	11/4/2013	Grab/Backhoe	16'	ND	ND	ND	ND	22,600
LR 5-2	Release Area	11/4/2013	Grab/Backhoe	2'	ND	ND	ND	ND	11,400
LR 5-4	Release Area	11/4/2013	Grab/Backhoe	4'	ND	ND	ND	ND	17,000
LR 5-6	Release Area	11/4/2013	Grab/Backhoe	6'	ND	ND	ND	ND	29,200
LR 5-8	Release Area	11/4/2013	Grab/Backhoe	8'	ND	ND	ND	ND	14,800
LR 5-10	Release Area	11/4/2013	Grab/Backhoe	10'	ND	ND	ND	ND	15,800
LR 5-12	Release Area	11/4/2013	Grab/Backhoe	12'	ND	ND	ND	ND	14,600
LR 5-14	Release Area	11/4/2013	Grab/Backhoe	14'	ND	ND	ND	ND	19,400
LR 5-16	Release Area	11/4/2013	Grab/Backhoe	16'	ND	ND	ND	ND	25,600

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/P/W, 50 B/C; Recovered: 480 B/P/W, 30 B/C. Release Date: 10/27/2013. ZRP-2044

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.

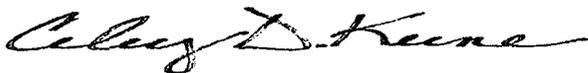
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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.

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

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 1-2 (H302701-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	

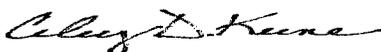
Surrogate: 1-Chlorooctane 77.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 81.4 % 63.6-154

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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		

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

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	11/08/2013	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) 109 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	

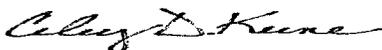
Surrogate: 1-Chlorooctane 81.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.1 % 63.6-154

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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 1-6 (H302701-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PID) 110 % 89.4-126

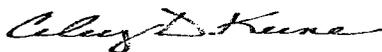
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	198	98.8	200	1.81	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	224	112	200	17.8	

Surrogate: 1-Chlorooctane 89.0 % 65.2-140
Surrogate: 1-Chlorooctadecane 89.6 % 63.6-154

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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 1-8 (H302701-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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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 1-10 (H302701-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIE) 110 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	

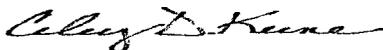
Surrogate: 1-Chlorooctane 99.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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 AMBER CANNON
 105 S 4th Street
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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 1-12 (H302701-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIC) 110 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	

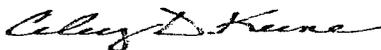
Surrogate: 1-Chlorooctane 87.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.1 % 63.6-154

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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 1-14 (H302701-07)

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	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 (PIE) 110 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	

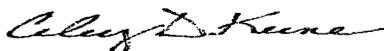
Surrogate: 1-Chlorooctane 107 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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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 1-16 (H302701-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIE) 110 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	

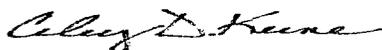
Surrogate: 1-Chlorooctane 98.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.9 % 63.6-154

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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		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	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 (PIC) 109 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.1 % 63.6-154

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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 2-4 (H302701-10)

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	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 (PIE) 111 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	

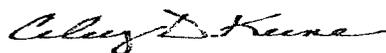
Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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 2-6 (H302701-11)

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	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 (PIC) 110 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	

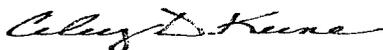
Surrogate: 1-Chlorooctane 73.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 83.2 % 63.6-154

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Analytical Results For:

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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 2-8 (H302701-12)

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	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 (PIC) 112 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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 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 2-10 (H302701-13)

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	11/10/2013	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 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	

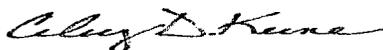
Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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 AMBER CANNON
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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 2-12 (H302701-14)

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 (PIE) 110 % 89.4-126

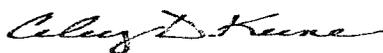
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2013	ND	192	96.1	200	1.93	
DRO >C10-C28	<10.0	10.0	11/06/2013	ND	191	95.5	200	1.29	

Surrogate: 1-Chlorooctane 94.9 % 65.2-140
Surrogate: 1-Chlorooctadecane 96.9 % 63.6-154

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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 2-14 (H302701-15)

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 (PIE) 111 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	

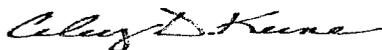
Surrogate: 1-Chlorooctane 94.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.6 % 63.6-154

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Analytical Results For:

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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 3-2 (H302701-16)

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 (PII) 110 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.0 % 63.6-154

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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 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 (PIC) 108 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	

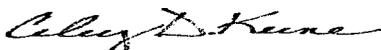
Surrogate: 1-Chlorooctane 98.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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 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 3-6 (H302701-18)

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 (PIE) 109 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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 AMBER CANNON
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 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 3-8 (H302701-19)

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 (PIC) 110 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	

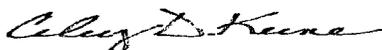
Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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 3-10 (H302701-20)

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 (PIC) 108 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Analytical Results For:

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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 3-12 (H302701-21)

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 (PIE) 109 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	

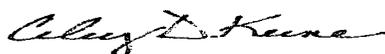
Surrogate: 1-Chlorooctane 91.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.0 % 63.6-154

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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 3-14 (H302701-22)

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) 111 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	

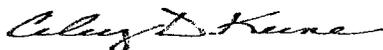
Surrogate: 1-Chlorooctane 98.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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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 3-16 (H302701-23)

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 (PIE) 110 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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 AMBER CANNON
 105 S 4th Street
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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 4-2 (H302701-24)

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 (PIC) 110 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 86.1 % 65.2-140
Surrogate: 1-Chlorooctadecane 89.8 % 63.6-154

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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 4-4 (H302701-25)

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) 109 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	

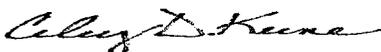
Surrogate: 1-Chlorooctane 97.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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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 4-6 (H302701-26)

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 (PIC) 109 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.8 % 63.6-154

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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 4-8 (H302701-27)

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 (PIC) 109 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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 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 4-10 (H302701-28)

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 (PII) 112 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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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 4-12 (H302701-29)

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 (PII) 110 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 68.4 % 63.6-154

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Celest D. Keene, Lab Director/Quality Manager

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 4-14 (H302701-30)

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) 111 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	

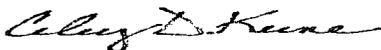
Surrogate: 1-Chlorooctane 99.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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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 4-16 (H302701-31)

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 (PIE) 111 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	

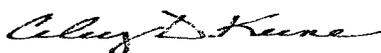
Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

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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 5-2 (H302701-32)

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) 109 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	

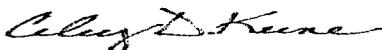
Surrogate: 1-Chlorooctane 95.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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 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 5-4 (H302701-33)

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	11/10/2013	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 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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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 5-6 (H302701-34)

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	11/10/2013	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 (PIE) 111 % 89.4-126

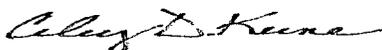
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	210	105	200	6.99	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	204	102	200	3.41	

Surrogate: 1-Chlorooctane 92.6 % 65.2-140
Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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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 5-8 (H302701-35)

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	11/10/2013	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 (PII) 110 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	

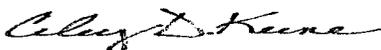
Surrogate: 1-Chlorooctane 90.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.5 % 63.6-154

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Analytical Results For:

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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 5-10 (H302701-36)

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	11/10/2013	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 (PII) 110 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	

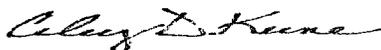
Surrogate: 1-Chlorooctane 96.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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Analytical Results For:

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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 5-12 (H302701-37)

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	11/10/2013	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) 112 % 89.4-126

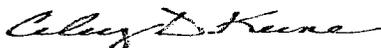
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2013	ND	210	105	200	6.99	
DRO >C10-C28	<10.0	10.0	11/07/2013	ND	204	102	200	3.41	

Surrogate: 1-Chlorooctane 96.7 % 65.2-140
Surrogate: 1-Chlorooctadecane 99.4 % 63.6-154

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 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 5-14 (H302701-38)

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	11/10/2013	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) 112 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	

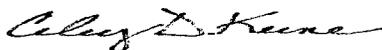
Surrogate: 1-Chlorooctane 91.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.1 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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 5-16 (H302701-39)

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	11/10/2013	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 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	

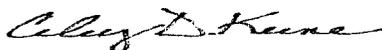
Surrogate: 1-Chlorooctane 91.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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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 D. Keene, Lab Director/Quality Manager



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 accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name being the most prominent.

Celey D. Keene
Lab Director/Quality Manager

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 1-2 (H302701-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10300	16.0	11/07/2013	ND	432	108	400	4.01	

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21200	16.0	11/07/2013	ND	432	108	400	4.01	

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	29600	16.0	11/07/2013	ND	432	108	400	4.01	

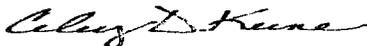
Sample ID: LR 1-8 (H302701-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16200	16.0	11/07/2013	ND	432	108	400	4.01	

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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 1-10 (H302701-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10000	16.0	11/07/2013	ND	432	108	400	4.01		

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	18000	16.0	11/07/2013	ND	432	108	400	4.01		

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16000	16.0	11/07/2013	ND	432	108	400	4.01		

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14400	16.0	11/07/2013	ND	432	108	400	4.01		

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14600	16.0	11/07/2013	ND	432	108	400	4.01		

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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 2-4 (H302701-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14000	16.0	11/07/2013	ND	432	108	400	4.01		

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10800	16.0	11/07/2013	ND	432	108	400	4.01		

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12200	16.0	11/08/2013	ND	416	104	400	3.92		

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	17200	16.0	11/08/2013	ND	416	104	400	3.92		

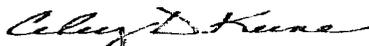
Sample ID: LR 2-12 (H302701-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	20200	16.0	11/08/2013	ND	416	104	400	3.92		

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Celey D. Keene, Lab Director/Quality Manager

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 2-14 (H302701-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
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 (H302701-16)

Chloride, SM4500Cl-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 (H302701-17)

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 (H302701-18)

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 (H302701-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14800	16.0	11/08/2013	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

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 3-10 (H302701-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	11/08/2013	ND	416	104	400	3.92	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12200	16.0	11/08/2013	ND	416	104	400	3.92	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19000	16.0	11/08/2013	ND	416	104	400	3.92	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed 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 4-2 (H302701-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22200	16.0	11/08/2013	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

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 4-4 (H302701-25)

Chloride, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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		

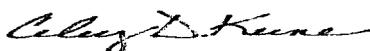
Sample ID: LR 4-12 (H302701-29)

Chloride, SM4500CI-B		mg/kg		Analyzed 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 D. Keene, Lab Director/Quality Manager

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 4-14 (H302701-30)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
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 (H302701-31)

Chloride, SM4500CI-B		mg/kg		Analyzed 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 (H302701-32)

Chloride, SM4500CI-B		mg/kg		Analyzed 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 (H302701-33)

Chloride, SM4500CI-B		mg/kg		Analyzed 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 (H302701-34)

Chloride, SM4500CI-B		mg/kg		Analyzed 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		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 5-8 (H302701-35)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14800	16.0	11/08/2013	ND	416	104	400	3.92		

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	15800	16.0	11/08/2013	ND	416	104	400	3.92		

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14600	16.0	11/08/2013	ND	416	104	400	3.92		

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	19400	16.0	11/08/2013	ND	416	104	400	3.92		

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	25600	16.0	11/08/2013	ND	416	104	400	3.92		

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Celey D. Keene, Lab Director/Quality Manager

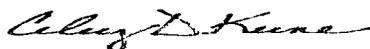
Notes and Definitions

- 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 D. Keene, Lab Director/Quality Manager

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

Project Name: Livingston Ridge SWD Water Lin

Project Manager: Amber Cannon

Company Name: Yates Petroleum Corporation

Project #:

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 103-2020

Telephone No: 575-748-4111 or 575-513-8799

Fax No: 575-748-4131

Report Format: Standard TRRP NPDES

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers							Matrix	Analyze For:	
								Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₈	None			Other (Specify)
1	LR 1-2	2'	2'	11/4/2013	10:34 AM		1	X								S	TPH: 418.1 8015M 8015
2	LR 1-4	4'	4'	11/4/2013	10:38 AM		1	X								S	TPH: 1005 TX 1006
3	LR 1-6	6'	6'	11/4/2013	10:41 AM		1	X								S	TPH: 418.1 8015M 8015
4	LR 1-8	8'	8'	11/4/2013	10:46 AM		1	X								S	TPH: 418.1 8015M 8015
5	LR 1-10	10'	10'	11/4/2013	10:50 AM		1	X								S	TPH: 418.1 8015M 8015
6	LR 1-12	12'	12'	11/4/2013	10:54 AM		1	X								S	TPH: 418.1 8015M 8015
7	LR 1-14	14'	14'	11/4/2013	11:00 AM		1	X								S	TPH: 418.1 8015M 8015
8	LR 1-16	16'	16'	11/4/2013	11:06 AM		1	X								S	TPH: 418.1 8015M 8015

Special Instructions: TPH: 8015B, BTEX: 8021B. Please show BTEX results as mg/kg. Please put chlorides on a separate report. Thank you.	Received by: <i>Amber Cannon</i> Date: 11/6/13 Time: 1:00
Relinquished by:	Received by:
Relinquished by:	Received by:

Laboratory Comments: Sample Containers: <input checked="" type="checkbox"/> N <input type="checkbox"/> N VOCs Free of Headspace? <input checked="" type="checkbox"/> N Labels on container(s)? <input checked="" type="checkbox"/> N Custody seals on container(s)? <input checked="" type="checkbox"/> N Custody seals on cooler(s)? <input checked="" type="checkbox"/> N Sample Hand Delivered by Sampler/Client Rep? <input checked="" type="checkbox"/> N by Courier? UPS DHL FedEx <input checked="" type="checkbox"/> Star	Temperature Upon Receipt: 14.2 °C
--	-----------------------------------

#54

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

Project Manager: Amber Cannon Project Name: Livingston Ridge SWD Water Line

Company Name: Yates Petroleum Corporation Project #: _____

Company Address: 105 South 4th Street Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210 PO #: 103-2020

Telephone No: 575-748-4111 or 575-513-8799 Report Format: Standard TRRP NPDES

Fax No: 575-748-4131 e-mail: acannon@yatespetroleum.com

Sampler Signature: Amber Cannon

Lab # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers							Matrix	Analyze For:						
								Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₈	None			Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid	NP=Non-Portable Specify Other			
16	LR 3-2	2'	2'	11/4/2013	11:50 AM		1	X							S	TPH: 418.1 8015M 8015	Metals: As Ag Ba Cd Cr Pb Hg Se	SAR / ESP / CEC	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs
17	LR 3-4	4'	4'	11/4/2013	11:53 AM		1	X							S	TPH: TX 1005 TX 1006	Arions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs
18	LR 3-6	6'	6'	11/4/2013	11:58 AM		1	X							S	TPH: TX 1005 TX 1006	Arions (Ca, Mg, Na, K)	SAR / ESP / CEC	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs
19	LR 3-8	8'	8'	11/4/2013	12:04 PM		1	X							S	TPH: TX 1005 TX 1006	Arions (Ca, Mg, Na, K)	SAR / ESP / CEC	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs
20	LR 3-10	10'	10'	11/4/2013	12:08 PM		1	X							S	TPH: TX 1005 TX 1006	Arions (Ca, Mg, Na, K)	SAR / ESP / CEC	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs
21	LR 3-12	12'	12'	11/4/2013	12:12 PM		1	X							S	TPH: TX 1005 TX 1006	Arions (Ca, Mg, Na, K)	SAR / ESP / CEC	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs
22	LR 3-14	14'	14'	11/4/2013	12:16 PM		1	X							S	TPH: TX 1005 TX 1006	Arions (Ca, Mg, Na, K)	SAR / ESP / CEC	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs
23	LR 3-16	16'	16'	11/4/2013	12:20 PM		1	X							S	TPH: TX 1005 TX 1006	Arions (Ca, Mg, Na, K)	SAR / ESP / CEC	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Special instructions: TPH: 8015B, BTEX: 8021B. Please show BTEX results as mg/kg. Please put chlorides on a separate report. Thank you.

Relinquished by: Amber Cannon Date: 11/6/13 Time: _____

Relinquished by: *Amber Cannon* Date: 11/6/13 Time: 1:00

Relinquished by: _____ Date: _____ Time: _____

Received by: *Amber Cannon* Date: 11/6/13 Time: 1:00

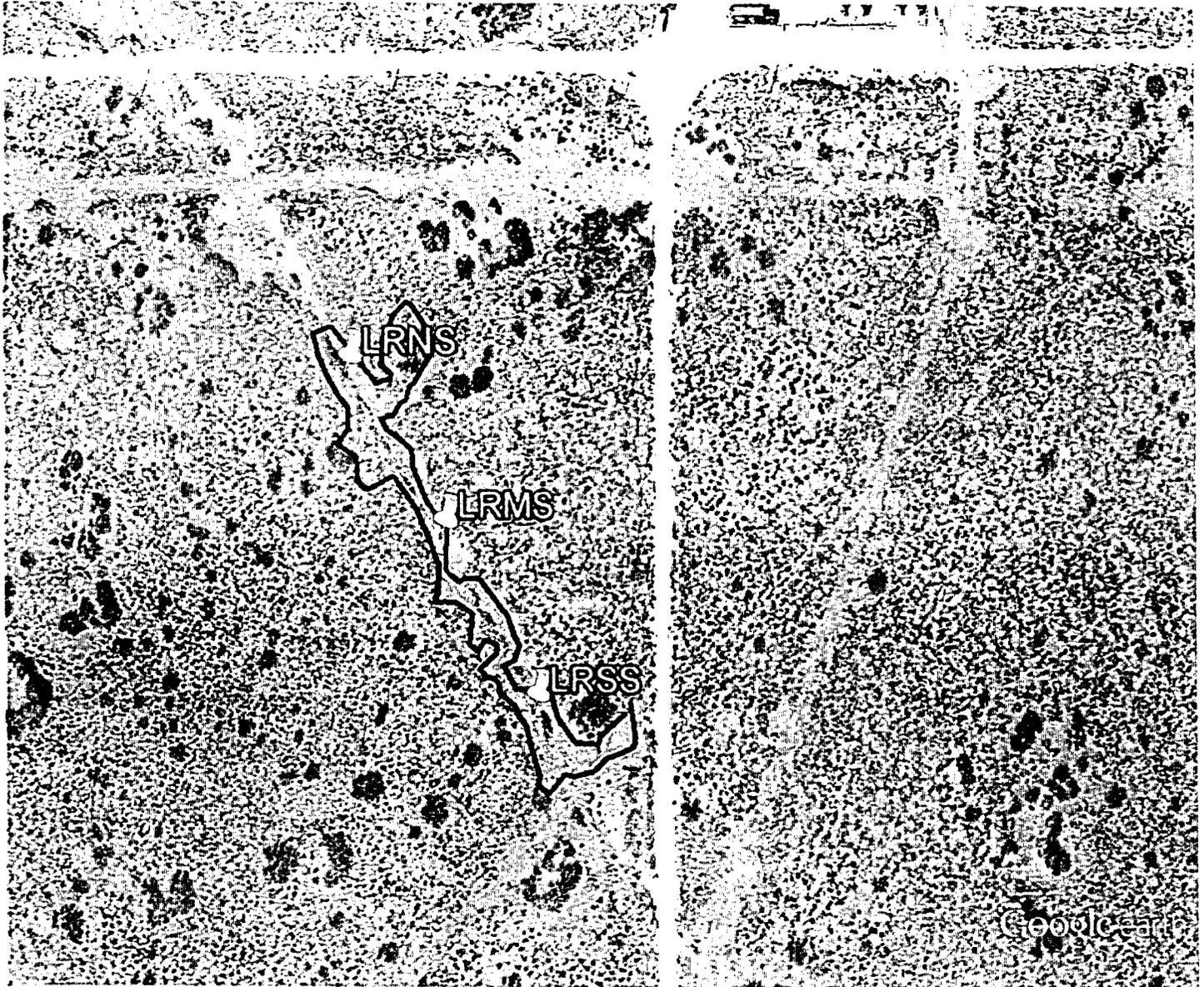
Received by: _____ Date: _____ Time: _____

Received by: ELOIT Date: _____ Time: _____

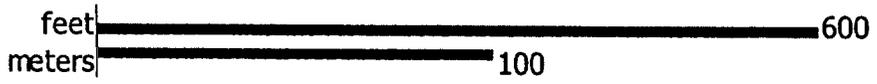
Temperature Upon Receipt: 1.4 °C

#54

APPENDIX D



Google earth



Livingston Ridge Release
Map #4
1/16/2014 Sampling Event

LIVINGSTON RIDGE SWD WATER LINE

Livingston Ridge Release
Analytical Report H400165 Summary

Cardinal Laboratories

Analytical Report- H400165	Sample Area	Sample Date	Sample Type	Depth	Chlorides
LRSS 20	Release Area	1/16/2014	Grab/Core Rig	20'	11,700
LRSS 25	Release Area	1/16/2014	Grab/Core Rig	25'	14,800
LRSS 30	Release Area	1/16/2014	Grab/Core Rig	30'	3,800
LRSS 35	Release Area	1/16/2014	Grab/Core Rig	35'	5,120
LRSS 40	Release Area	1/16/2014	Grab/Core Rig	40'	2,160
LRSS 45	Release Area	1/16/2014	Grab/Core Rig	45'	5,120
LRSS 50	Release Area	1/16/2014	Grab/Core Rig	50'	6,400
LRSS 55	Release Area	1/16/2014	Grab/Core Rig	55'	208
LRMS 20	Release Area	1/16/2014	Grab/Core Rig	20'	12,000
LRMS 25	Release Area	1/16/2014	Grab/Core Rig	25'	9,200
LRMS 30	Release Area	1/16/2014	Grab/Core Rig	30'	3,000
LRMS 35	Release Area	1/16/2014	Grab/Core Rig	35'	160
LRMS 40	Release Area	1/16/2014	Grab/Core Rig	40'	1,260
LRMS 45	Release Area	1/16/2014	Grab/Core Rig	45'	592
LRMS 50	Release Area	1/16/2014	Grab/Core Rig	50'	384
LRMS 55	Release Area	1/16/2014	Grab/Core Rig	55'	752
LRNS 20	Release Area	1/16/2014	Grab/Core Rig	20'	8,260
LRNS 25	Release Area	1/16/2014	Grab/Core Rig	25'	3,600
LRNS 30	Release Area	1/16/2014	Grab/Core Rig	30'	3,280
LRNS 35	Release Area	1/16/2014	Grab/Core Rig	35'	144
LRNS 40	Release Area	1/16/2014	Grab/Core Rig	40'	192
LRNS 45	Release Area	1/16/2014	Grab/Core Rig	45'	528
LRNS 50	Release Area	1/16/2014	Grab/Core Rig	50'	128
LRNS 55	Release Area	1/16/2014	Grab/Core Rig	55'	192

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

Analytical Results For:

 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:	205-2020	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: LRSS 40 (H400165-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	01/23/2014	ND	416	104	400	0.00		

Sample ID: LRSS 45 (H400165-06)

Chloride, SM4500CI-B		mg/kg		Analyzed 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, SM4500CI-B		mg/kg		Analyzed 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, SM4500CI-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		

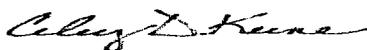
Sample ID: LRMS 20 (H400165-09)

Chloride, SM4500CI-B		mg/kg		Analyzed 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

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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:	205-2020	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: LRMS 25 (H400165-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9200	16.0	01/23/2014	ND	416	104	400	0.00		

Sample ID: LRMS 30 (H400165-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3000	16.0	01/23/2014	ND	416	104	400	0.00		

Sample ID: LRMS 35 (H400165-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	01/23/2014	ND	416	104	400	0.00		

Sample ID: LRMS 40 (H400165-13)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	01/23/2014	ND	416	104	400	0.00		

Sample ID: LRMS 45 (H400165-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	01/23/2014	ND	416	104	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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:	205-2020	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: LRMS 50 (H400165-15)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
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 (H400165-16)

Chloride, SM4500CI-B		mg/kg		Analyzed 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 (H400165-17)

Chloride, SM4500CI-B		mg/kg		Analyzed 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 (H400165-18)

Chloride, SM4500CI-B		mg/kg		Analyzed 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 (H400165-19)

Chloride, SM4500CI-B		mg/kg		Analyzed 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. Keene, Lab Director/Quality Manager

Analytical Results For:

 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:	205-2020	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: LRNS 35 (H400165-20)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
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		Analyzed 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, SM4500CI-B		mg/kg		Analyzed 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		Analyzed 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		Analyzed 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. Keene, Lab Director/Quality Manager

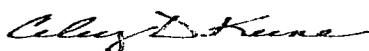
Notes and Definitions

- 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

Cardinal Laboratories

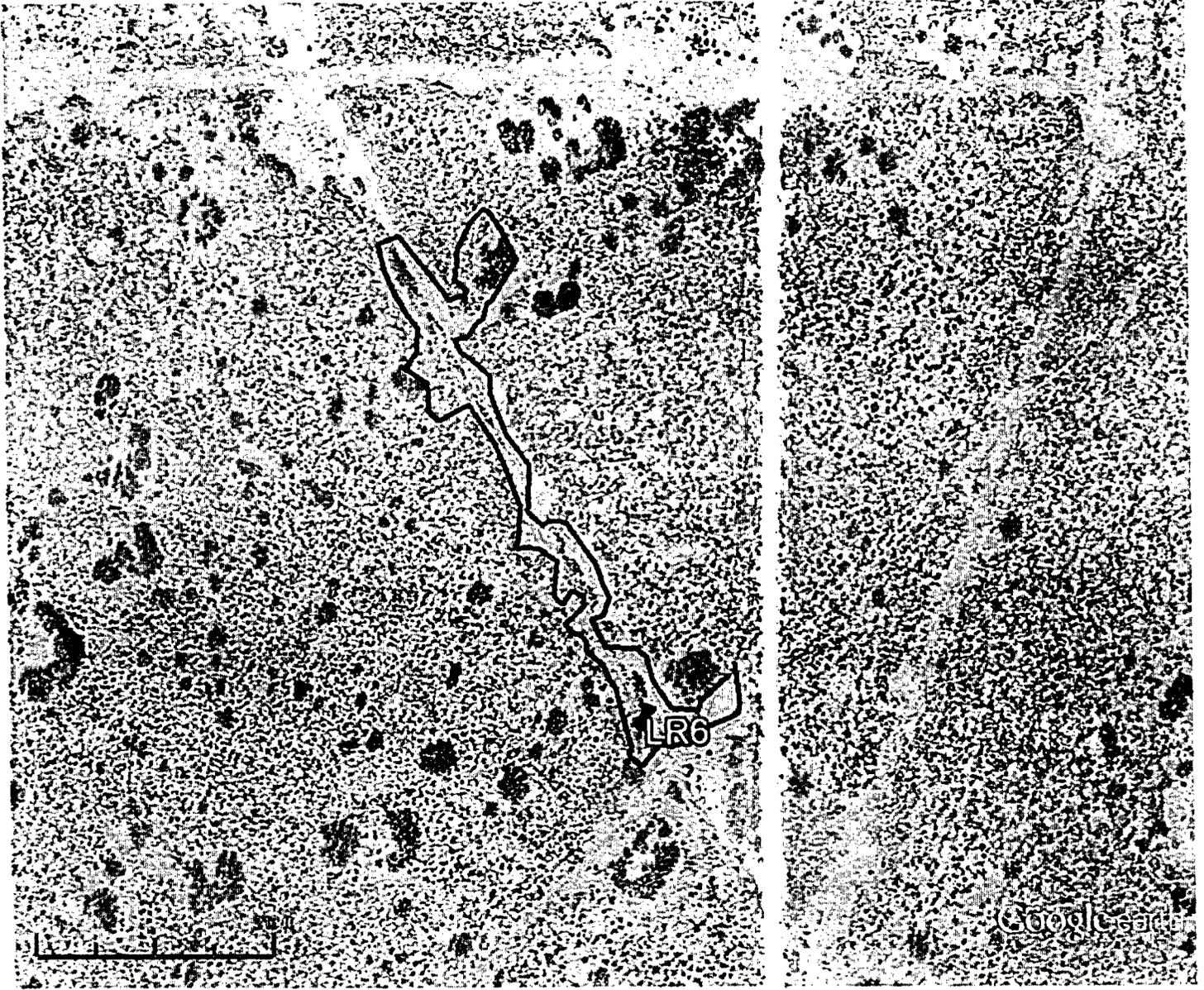
*=Accredited Analyte

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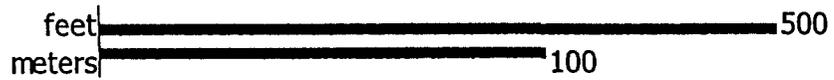


Celey D. Keene, Lab Director/Quality Manager

APPENDIX E



Google earth



**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	TOTAL	Chlorides
LR 6-1	Release Area	2/19/2014	Grab/Backhoe	1'	ND	ND	ND	ND	624
LR 6-2	Release Area	2/19/2014	Grab/Backhoe	2'	ND	ND	ND	ND	12,000
LR 6-3	Release Area	2/19/2014	Grab/Backhoe	3'	ND	ND	ND	ND	10,800
LR 6-4	Release Area	2/19/2014	Grab/Backhoe	4'	ND	ND	ND	ND	12,800
LR 6-5	Release Area	2/19/2014	Grab/Backhoe	5'	ND	ND	ND	ND	21,800
LR 6-6	Release Area	2/19/2014	Grab/Backhoe	6'	ND	ND	ND	ND	20,200
LR 6-7	Release Area	2/19/2014	Grab/Backhoe	7'	ND	ND	ND	ND	16,000

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



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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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

Analytical Results For:

 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		Analyzed 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 %	61.3-142
Surrogate: Toluene-d8	104 %	71.3-129
Surrogate: 4-Bromofluorobenzene	101 %	65.7-141

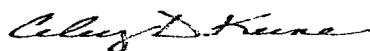
TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/26/2014	ND	204	102	200	5.45		
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	199	99.7	200	2.11		

Surrogate: 1-Chlorooctane	93.5 %	65.2-140
Surrogate: 1-Chlorooctadecane	98.2 %	63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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		Analyzed 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 %	61.3-142
Surrogate: Toluene-d8	104 %	71.3-129
Surrogate: 4-Bromofluorobenzene	105 %	65.7-141

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	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 %	65.2-140
Surrogate: 1-Chlorooctadecane	89.9 %	63.6-154

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Analytical Results For:

 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 6-3 (H400528-03)

BTEX 8260B		mg/kg		Analyzed 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 %	61.3-142
Surrogate: Toluene-d8	100 %	71.3-129
Surrogate: 4-Bromofluorobenzene	102 %	65.7-141

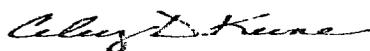
TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/26/2014	ND	204	102	200	5.45		
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	199	99.7	200	2.11		

Surrogate: 1-Chlorooctane	91.7 %	65.2-140
Surrogate: 1-Chlorooctadecane	93.6 %	63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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 6-4 (H400528-04)

BTEX 8260B		mg/kg		Analyzed 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 %	61.3-142
Surrogate: Toluene-d8	101 %	71.3-129
Surrogate: 4-Bromofluorobenzene	104 %	65.7-141

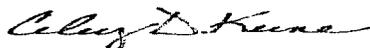
TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/26/2014	ND	204	102	200	5.45	
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	199	99.7	200	2.11	

Surrogate: 1-Chlorooctane	91.7 %	65.2-140
Surrogate: 1-Chlorooctadecane	94.0 %	63.6-154

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Analytical Results For:

 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 6-5 (H400528-05)

BTEX 8260B		mg/kg		Analyzed 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 % 61.3-142

Surrogate: Toluene-d8 104 % 71.3-129

Surrogate: 4-Bromofluorobenzene 99.8 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	

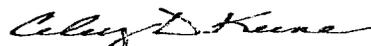
Surrogate: 1-Chlorooctane 77.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 81.7 % 63.6-154

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Analytical Results For:

 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 6-6 (H400528-06)

BTEX 8260B		mg/kg		Analyzed 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	96.6 %	61.3-142
Surrogate: Toluene-d8	104 %	71.3-129
Surrogate: 4-Bromofluorobenzene	104 %	65.7-141

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 %	65.2-140
Surrogate: 1-Chlorooctadecane	88.7 %	63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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 6-7 (H400528-07)

BTEX 8260B		mg/kg		Analyzed 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 % 61.3-142
 Surrogate: Toluene-d8 102 % 71.3-129
 Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	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 % 65.2-140
 Surrogate: 1-Chlorooctadecane 91.4 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

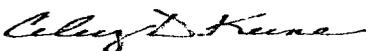
Notes and Definitions

- 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 D. Keene, Lab Director/Quality Manager



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

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized initial 'C'.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 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)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	02/27/2014	ND	416	104	400	3.92		

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12000	16.0	02/27/2014	ND	416	104	400	3.92		

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10800	16.0	02/27/2014	ND	416	104	400	3.92		

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12800	16.0	02/27/2014	ND	416	104	400	3.92		

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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 6-5 (H400528-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	21800	16.0	02/27/2014	ND	416	104	400	3.92		

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	20200	16.0	02/27/2014	ND	416	104	400	3.92		

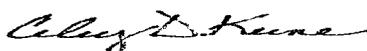
Sample ID: LR 6-7 (H400528-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16000	16.0	02/27/2014	ND	416	104	400	3.92		

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

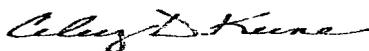
Notes and Definitions

- 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

Cardinal Laboratories

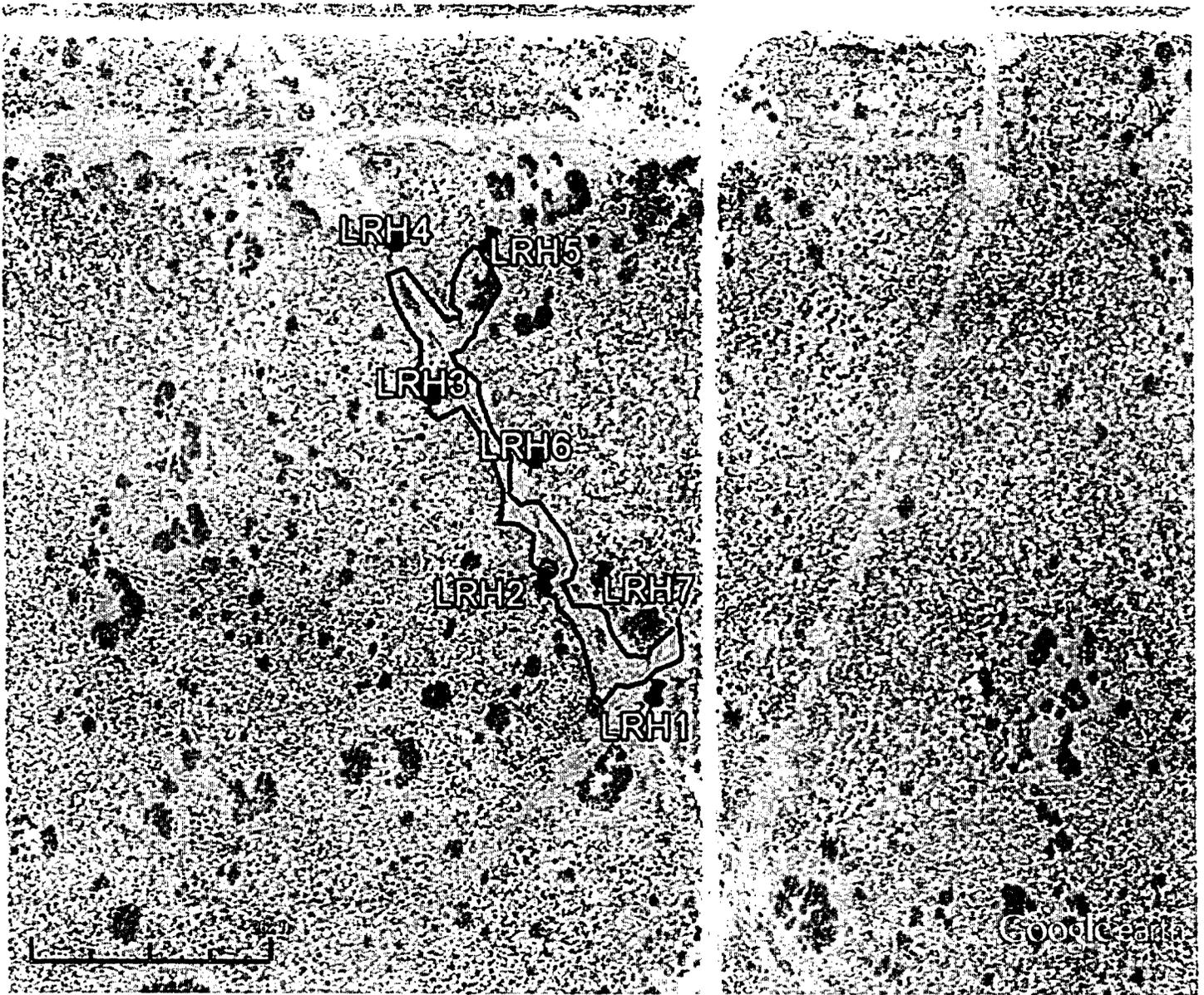
*=Accredited Analyte

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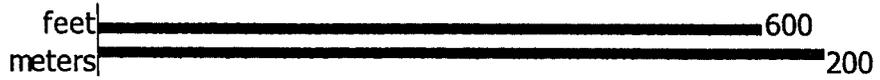


Celey D. Keene, Lab Director/Quality Manager

APPENDIX F



Google earth



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

LIVINGSTON RIDGE SWD WATER LINE

Cardinal Laboratories

Analytical Report- H400530	Sample Area	Sample Date	Sample Type	Depth	Chlorides
	LRH1-1	2/19/2014	Grab/Backhoe	1'	32
	LRH1-2	2/19/2014	Grab/Backhoe	2'	16
	LRH1-3	2/19/2014	Grab/Backhoe	3'	32
	LRH1-4	2/19/2014	Grab/Backhoe	4'	32
	LRH2-1	2/19/2014	Grab/Backhoe	1'	ND
	LRH2-2	2/19/2014	Grab/Backhoe	2'	16
	LRH2-3	2/19/2014	Grab/Backhoe	3'	16
	LRH2-4	2/19/2014	Grab/Backhoe	4'	3,320
	LRH3-1	2/19/2014	Grab/Backhoe	1'	16
	LRH3-2	2/19/2014	Grab/Backhoe	2'	16
	LRH3-3	2/19/2014	Grab/Backhoe	3'	16
	LRH3-4	2/19/2014	Grab/Backhoe	4'	32
	LRH4-1	2/19/2014	Grab/Backhoe	1'	16
	LRH4-2	2/19/2014	Grab/Backhoe	2'	16
	LRH4-3	2/19/2014	Grab/Backhoe	3'	16
	LRH4-4	2/19/2014	Grab/Backhoe	4'	32
	LRH5-1	2/19/2014	Grab/Backhoe	1'	ND
	LRH5-2	2/19/2014	Grab/Backhoe	2'	ND
	LRH5-3	2/19/2014	Grab/Backhoe	3'	ND
	LRH5-4	2/19/2014	Grab/Backhoe	4'	ND
	LRH6-1	2/19/2014	Grab/Backhoe	1'	ND
	LRH6-2	2/19/2014	Grab/Backhoe	2'	ND
	LRH6-3	2/19/2014	Grab/Backhoe	3'	16
	LRH6-4	2/19/2014	Grab/Backhoe	4'	32
	LRH7-1	2/19/2014	Grab/Backhoe	1'	ND
	LRH7-2	2/19/2014	Grab/Backhoe	2'	32
	LRH7-3	2/19/2014	Grab/Backhoe	3'	16
	LRH7-4	2/19/2014	Grab/Backhoe	4'	16

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. RRP-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.

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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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, prominent initial "C".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 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
Project Location:	EDDY COUNTY, NM		

Sample ID: LRH1 - 1 (H400530-01)

Chloride, SM4500CI-B		mg/kg		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: LRH1 - 2 (H400530-02)

Chloride, SM4500CI-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: LRH1 - 3 (H400530-03)

Chloride, SM4500CI-B		mg/kg		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		

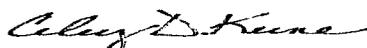
Sample ID: LRH1 - 4 (H400530-04)

Chloride, SM4500CI-B		mg/kg		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		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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
Project Location:	EDDY COUNTY, NM		

Sample ID: LRH2 - 1 (H400530-05)

Chloride, SM4500CI-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: LRH2 - 2 (H400530-06)

Chloride, SM4500CI-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: LRH2 - 3 (H400530-07)

Chloride, SM4500CI-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: LRH2 - 4 (H400530-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3320	16.0	02/27/2014	ND	416	104	400	3.92		

Sample ID: LRH3 - 1 (H400530-09)

Chloride, SM4500CI-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		

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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
Project Location:	EDDY COUNTY, NM		

Sample ID: LRH3 - 2 (H400530-10)

Chloride, SM4500CI-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: LRH3 - 3 (H400530-11)

Chloride, SM4500CI-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: LRH3 - 4 (H400530-12)

Chloride, SM4500CI-B		mg/kg		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: LRH4 - 1 (H400530-13)

Chloride, SM4500CI-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		

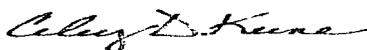
Sample ID: LRH4 - 2 (H400530-14)

Chloride, SM4500CI-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		

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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
Project Location:	EDDY COUNTY, NM		

Sample ID: LRH5 - 4 (H400530-20)

Chloride, SM4500CI-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: LRH6 - 1 (H400530-21)

Chloride, SM4500CI-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: LRH6 - 2 (H400530-22)

Chloride, SM4500CI-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: LRH6 - 3 (H400530-23)

Chloride, SM4500CI-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		

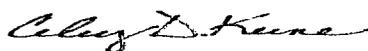
Sample ID: LRH6 - 4 (H400530-24)

Chloride, SM4500CI-B		mg/kg		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		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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
Project Location:	EDDY COUNTY, NM		

Sample ID: LRH7 - 1 (H400530-25)

Chloride, SM4500CI-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 - 2 (H400530-26)

Chloride, SM4500CI-B		mg/kg		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 (H400530-27)

Chloride, SM4500CI-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 (H400530-28)

Chloride, SM4500CI-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		

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* = Accredited Analyte

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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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APPENDIX G