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REPORTS

DATE: 6/2006

SITE CHARACTERIZATION AND SOIL CLOSURE PROPOSAL

LIVINGSTON RIDGE TO HUGH – P. SIMS PLAINS REF: 2001-11005 (COMPANY # 231735)

UL-J (NW¼ OF THE SE¼) OF SECTION 3, T21S, R37E ~5 MILES NORTH-NORTHEAST OF EUNICE LEA COUNTY, NEW MEXICO LATITUDE: N 32° 30' 12.27" LONGITUDE: W 103° 08' 54.81"

JUNE 2006

PREPARED BY:

ENVIRONMENTAL PLUS, INC. 2100 AVENUE O EUNICE, NEW MEXICO 88231

PREPARED FOR:

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PLAINS

DISTRIBUTION LIST

Plains Pipeline, L.P. – Livingston Ridge to Hugh-P. Sims (Plains Ref.: 2001-11005; Company # 231735)

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Livingston Ridge to Hugh – P. Sims 2001-11005

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Standard of Care

Soil Closure Proposal

Livingston Ridge to Hugh – P. Sims Ref. # 2001-11005

The information provided in this report was collected consistent with the New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills and Releases* (August 13, 1993), the NMOCD *Unlined Surface Impoundment Closure Guidelines* (February 1993), and the Environmental Plus, Inc. (EPI) *Standard Operating Procedures and Quality Assurance/Quality Control Plan.* The conclusions are based on field observations and laboratory analytical reports as presented in the report. Recommendations follow NMOCD guidance and represent the professional opinions of EPI staff. These opinions were arrived at with currently accepted geologic, hydrogeologic and engineering practices at this time and location. The report was prepared or reviewed by a certified or registered EPI professional with a background in engineering, environmental and/or the natural sciences.

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Table of Contents

1.0	Introduction	1
2.0	Summary	1
3.0	Field Activities	3
4.0	Laboratory Analyses	4
5.0	Groundwater Monitoring Summary	5
6.0	Soil Status	5
7.0	Status and Recommendations	5

FIGURES

Figure 1:	Area Map
Figure 2:	Site Location Map
Figure 3:	Site Map
Figure 4:	Excavation and Release Area Map
Figure 5:	EPI Excavation Sample Location Map
Figure 6:	ETGI August 20, 2002 Sample Location Map

TABLES

Table 1: Summary of Soil Sample Laboratory Analytical Results

APPENDICES

- Appendix A: Analytical Results and Chain-of-Custody Forms
- **Appendix B:** Photographs
- **Appendix C:** Informational Copy of C-141 Form

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1.0 Introduction

The purpose of this report is to provide the New Mexico Oil Conservation Division (NMOCD) with information pertaining to the soil impacts at the Livingston Ridge to Hugh – P. Sims and to prepare a soil remediation plan for the impacted soil at the site. This site is an inactive 4" steel pipeline and this plan proposes to collect final soil samples from the excavation, place impermeable barrier in the floor (if necessary) and backfill the excavation with blended soil comprised of remediated soil (i.e., from the bio-cell), stockpiled soil and clean soil obtained from the landowner.

2.0 Summary

The Plains All American Pipeline, L.P. (Plains) Livingston Ridge to Hugh – P. Sims site (Ref. #2001-11005) is located in Unit Letter-J (NW¼ of the SE¼) of Section 3, Range 37 East, Township 21 South. The site is at Latitude 32° 30'12.27"N and Longitude 103° 08'54.81"W approximately 5-miles north-northeast of Eunice, Lea, New Mexico on property owned by the G. P. Sims (reference *Figures 1* and 2). The site is located within the Monument Draw water drainage feature and there is a Key Energy Water facility is located within a 1,000 foot radius of the site. The release was discovered on June 4, 2001 and reported to the New Mexico Oil Conservation Division (NMOCD) on June 22, 2001. The release was characterized in the initial C-141 as a release of six barrels of crude oil with no recovery.

Environmental Plus, Inc. was retained by Plains Pipeline (formerly E.O.T.T. Energy Corp.) on June 5, 2001 to investigate and remediate soil impacted above NMOCD remedial thresholds. Initial remediation activities consisted of excavating and stockpiling impacted soil from the release area. The initial excavation was to a depth of approximately 12-feet below ground surface (bgs) near the point of release and to approximately 6-feet bgs in the flow path region (reference *Figure 3*). Approximately 890 cubic yards of impacted soil were removed during initial excavation activities, of which approximately 150 cubic yards were transported to the EPI landfarm for treatment. The remaining portion of excavated material, approximately 740 cubic yards, was spread in a bio-cell area near the excavation (reference *Figure 3*).

On June 22, 2001, a soil boring was advanced through the excavation floor to approximately 44feet bgs near the point of release and a temporary groundwater monitoring well (TMW) installed (reference *Figure 3* and 4). Approximately 4-feet of non-aqueous phase hydrocarbons were observed on the surface of the groundwater at approximately 30-feet bgs. E.O.T.T. Energy notified the Hobbs and Sante Fe offices of the NMOCD and the landowner of the discovery of impacted groundwater.

On July 20, 2001, composite soil samples were collected from the sidewalls and floor of the excavation for field and laboratory analyses. Field analytical data indicated organic vapor concentrations ranged from 2.4 to 454 parts per million (ppm). Laboratory analyses indicated TPH concentrations exceeded the NMOCD remedial threshold for this site of 100 milligrams per kilogram (mg/Kg). Based on this information, excavation activities resumed. An additional ~1,400 cubic yards of impacted soil were excavated and stockpiled adjacent to the bio-cell area (reference *Figure 3*).

On August 28, 2001, a two-inch groundwater monitoring well (MW-1) and on September 6, 2001 two two-inch groundwater monitoring wells (MW-2 and MW-3) were installed to delineate the



extent of impacted groundwater (reference *Figure 3*). Soil samples were not collected during the installation of the groundwater monitoring wells.

In November 2001, EPI submitted a *Stage 1 & 2 Abatement Plan* to E.O.T.T. for proposed groundwater remedial activities. Recommendations included a soil remediation strategy via an on site bio-cell, the isolation of residual impacted soil beneath the excavation by installing an impermeable barrier, the installation of additional wells, extraction of free phase hydrocarbons and remediation of groundwater via sparging and batch remediation.

On December 6, 2001, composite soil samples were collected from the excavation for laboratory analyses. Laboratory analytical results indicated TPH and BTEX constituents were below each analytes' NMOCD remedial threshold (reference *Table 1* and *Figure 5*).

In August 2002, E.O.T.T. transferred remediation responsibilities to Environmental Technologies Group, Inc. (ETGI). On August 6-8 2002, ETGI installed groundwater monitoring wells MW-4, through MW-10. Soil samples were collected from during the advancement of the well borings and submitted for laboratory analyses. Laboratory analyses indicated TPH and BTEX constituent concentrations were below each analytes' respective NMOCD remedial threshold for all samples (reference *Table 1* and *Figure 3*). Well elevation surveying was completed on September 19, 2002 and groundwater sampling commenced on September 30, 2002.

On August 20, 2002, ETGI personnel collected soil samples from the excavation floor and sidewalls for laboratory analyses (reference *Figure 6*). Laboratory analytical data indicated TPH and BTEX constituent concentrations were non-detectable (ND) at or above laboratory method detection limits (MDL) (reference *Table 1*).

On August 29, 2002, ETGI personnel collected soil samples from the bio-cell area and the stockpile adjacent to the excavation for laboratory analyses. Laboratory analytical data indicated TPH concentrations in the bio-cell remained above NMOCD remedial thresholds. Reported TPH and BTEX constituent concentrations in the stockpiled soil were ND at or above laboratory MDL (reference *Table 1*).

In October 2002, ETGI received a permit to install groundwater monitoring wells within the New Mexico State Road 207 right-of-way. On October 11-16, 2005, ETGI installed MW-11 through MW-15. Soil samples were collected during the advancement of the well borings and submitted for laboratory analyses. Laboratory analyses indicated TPH concentrations in the sample collected from MW-12 at 32-feet bgs were in excess of the NMOCD remedial threshold of 100 mg/Kg. TPH and BTEX constituent concentrations in all other soil samples were below each analytes' respective NMOCD remedial threshold (reference *Table 1* and *Figure3*). Well elevation surveying was completed on October 29, 2002 and groundwater sampling commenced on November 6, 2002. The groundwater monitoring well network was sampled by ETGI on a quarterly basis until remediation activities were returned to EPI in July 2005.

On September 8, 2005, soil samples were collected by EPI personnel from the bio-cell area for laboratory analyses. Laboratory analyses indicated TPH concentrations in the northeast biocell quadrant were non-detectable, while all other sampling quadrants were in excess of the NMOCD TPH standard (reference *Table 1*).

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3.0 Field Activities

Commencing June 5, 2001, EPI excavated approximately 610 cubic yards of hydrocarbon impacted soil from the area around the point of release. This excavation comprised an area of approximately 1,200 square feet to a depth of 12-feet bgs. In addition, EPI excavated approximately 280 cubic yards of hydrocarbon-impacted soil from the flowpath associated with the release. This excavation comprised an area of approximately 1,100 square feet to a depth of 6-feet bgs (reference *Figures 3* and *4*).

On June 22, 2001, a soil boring was advanced through the excavation floor to approximately 44-feet bgs near the point of release and a temporary groundwater monitoring well (TMW) installed (reference *Figure 3* and *4*).

On July 20, 2001, EPI personnel collected composite soil samples from the excavation sidewalls and floor. A portion of each sample was immediately placed in a laboratory provided container and placed on ice for transport to an independent laboratory for quantification of TPH and BTEX constituents. The remaining portion of each sample was analyzed in the field for the presence of organic vapors utilizing a hand held photoionization detector (PID). Field analyses indicated organic vapor concentrations ranged from 7.5 to 454 ppm (reference *Figure 5* and *Table 1*).

Based on laboratory analyses of soil samples collected on July 20, 2001, excavation activities resumed increasing the excavation to the present area of 6,770 square feet. Approximately 1,400 cubic yards of excavated, impacted soil were stockpiled adjacent to the bio-cell area. Composite soil samples were collected on December 6, 2001 from the excavation sidewalls and floor and submitted to an independent laboratory for quantification of TPH and BTEX constituents (reference *Figure 5*).

On August 28, 2001, EPI advanced three soil borings to install groundwater monitoring wells MW-1, MW-2 and MW-3.

ETGI installed groundwater monitoring wells MW-4 through MW-10 on August 6-8, 2002. Soil samples were collected during the advancement of the soil borings and submitted to an independent laboratory for quantification of TPH and BTEX constituent concentrations (reference *Figure 6*).

On August 20, 2002, ETGI personnel collected soil samples from the excavation floor and sidewalls. The soil samples were submitted to an independent laboratory for quantification of TPH, BTEX constituents and chlorides (reference *Figure 6*).

On August 29, 2002, ETGI personnel collected soil samples from the bio-cell area and the stockpile adjacent to the bio-cell. Samples were submitted to an independent laboratory for quantification of TPH, BTEX constituents and chlorides.

ETGI installed groundwater monitoring wells MW-11 through MW-15 on October 11-16, 2002. Soil samples were collected during the advancement of the soil borings and submitted to an independent laboratory for quantification of TPH and BTEX constituent concentrations (reference *Figure 6*).



Groundwater monitoring and sampling activities are conducted on a quarterly basis and PSH recovery has been conducted on a weekly or semi-monthly basis. Please refer to the *Plains Pipeline Livingston Ridge to Hugh-P. Sims Annual Monitoring Report* for 2005 for further information concerning groundwater monitoring activities.

4.0 Laboratory Analyses

Laboratory analytical data for soil samples collected on July 20, 2001 from the initial excavation and flowpath indicated benzene concentrations ranged from non-detectable (ND) at or above laboratory detection limits (MDL) to 0.198 mg/Kg, below NMOCD remedial threshold of 10 mg/Kg. Reported BTEX constituent concentrations ranged from ND to 19.8 mg/Kg, below the NMOCD remedial threshold of 50 mg/Kg. Analytical data indicated TPH concentrations in all sampling locations were in excess of the NMOCD remedial threshold of 100 mg/Kg, with the exception of the samples collected from the northeast excavation sidewall and the northwest flowpath excavation sidewall (i.e., LL72001NEESWC and LL72001NWFPSWC) (reference *Figure 5, Table 1* and *Appendix I*).

Laboratory analytical data for soil samples collected from the excavation on December 6, 2001 indicated benzene concentrations were ND at or above laboratory MDL. Reported BTEX constituent concentrations ranged from ND to 0.0910 mg/Kg, below the NMOCD remedial threshold of 50 mg/Kg. Laboratory analyses utilizing EPA Method 418.1 indicated TPH concentrations ranged from 10 to 90 mg/Kg for the north, west and east sidewalls, below the NMOCD remedial threshold of 100 mg/Kg. TPH concentrations in the composite sample collected from the south sidewall (SLS120601SSWC) were reported at 290 mg/Kg utilizing EPA method 418.1, in excess of the NMOCD redial threshold of 100 mg/Kg. Laboratory analysis of this sample utilizing EPA Method 8015M indicated TPH concentrations were 64 mg/Kg, below the NMOCD remedial threshold of 100 mg/Kg (reference *Table 1* and *Appendix I*).

Soil samples collected by ETGI personnel on August 20, 2002 from the excavation sidewalls and floor were submitted to an independent laboratory for quantification of TPH, BTEX constituents and chloride concentrations. Analytical data indicated TPH, BTEX constituents and chloride concentrations were ND at or above each analytes respective laboratory MDL (reference *Table 1*).

On August 29, 2002, soil samples were collected by ETGI personnel from the bio-cell area and stockpiled soil and submitted to an independent laboratory for quantification of TPH, BTEX constituents and chloride concentrations. Laboratory analytical data for the bio-cell area indicated benzene concentrations were ND at or above laboratory MDL. BTEX constituent concentrations were reported to range from ND to 0.715 mg/Kg, below the NMOCD remedial threshold of 50 mg/Kg. Reported TPH concentrations ranged from 198 to 4,764 mg/Kg, in excess of the NMOCD remedial threshold of 100 mg/Kg. Chloride concentrations ranged from 23.6 to 94.5 mg/Kg, below the New Mexico Water Quality Control Commission (NMWQCC) groundwater standard of 250 mg/L. Laboratory analytical data for samples collected from the stockpiled soil indicated TPH and BTEX constituent concentrations were reported at 23.6 mg/Kg for all samples collected, below the NMWQCC groundwater standard of 250 mg/L (reference *Table 1*).

Soil samples were collected by ETGI personnel during the advancement of soil borings in August through October 2002 for the installation of groundwater monitoring wells MW-4 through MW-



15 at various depths and submitted to an independent laboratory for quantification of TPH and BTEX constituents. Additionally, samples from MW-8 at 40- bgs, MW-9 at 35-feet bgs and MW-10 at 35-feet bgs were submitted for chloride quantification. Laboratory analyses of soil samples indicated benzene constituents ranged from ND to 0.341 mg/Kg, below the NMOCD remedial threshold of 10 mg/Kg. BTEX constituent concentrations were reported to range from ND to 5.91 mg/Kg, below the NMOCD remedial threshold of 50 mg/Kg. Reported TPH concentrations for the sampling intervals between the groundwater capillary fringe and the ground surface were reported as ND at or above laboratory MDL. Laboratory analyses of soil samples collected from MW-4, MW-5 and MW-12 at the groundwater capillary fringe indicated TPH concentrations ranged from 177 to 437 mg/Kg, in excess of the NMOCD remedial threshold of 100 mg/Kg. Laboratory analyses of all other capillary fringe soil samples indicated TPH concentrations were ND at or above laboratory MDL (reference *Table 1*).

On September 8, 2005, soil samples were collected by EPI personnel from the bio-cell area and submitted to an independent laboratory for quantification of TPH concentrations. Analytical data indicated TPH concentrations ranged from ND to 487 mg/Kg (reference *Table 1* and *Appendix I*).

5.0 Groundwater Monitoring Summary

Please refer to *Plains Pipeline Livingston Ridge to Hugh-P. Sims 2005 Annual Monitoring Report* for further information and background concerning groundwater monitoring activities.

6.0 Soil Status

Based on soil sample analytical data for samples collected during the installation of groundwater monitoring wells MW-4 through MW-15, soil outside the current excavation has not been impacted. Laboratory analyses of composite soil samples collected on December 6, 2001 from the excavation floor and sidewalls indicate TPH, BTEX constituent and chloride concentrations were non-detectable at or above each analytes' respective MDL.

7.0 Status and Recommendations

Based on field and analytical results collected during the advancement of the soil borings and installation of the groundwater monitoring wells and soil samples collected from the excavation, the following recommendations are made in regards to the soil remediation at the site:

- Install an impermeable barrier on the excavation floor to isolate residual hydrocarbon impacted soil beneath the excavation floor from downward migration. The liner shall be comprised of a 2-foot layer of clay compacted to within 95% of its' Proctor Density, polyvinyl chloride with a 6-inch layer of sand above and below the liner to provide a cushion or another suitable equivalent.
- 2) Contour/grade the area to allow natural drainage and seed the area with a mixture suitable to the landowner.
- 3) Continue PSH recovery and groundwater monitoring activities.

EPI, on behalf of Plains requests formal written approval from the NMOCD to implement these proposed remedial activities.

FIGURES













TABLES

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TABLE 1

11.

Summary of Soil Sample Laboratory Analytical Results

Plains Pipeline, LLC- Livingston Ridge to Hugh-P.Sims (Ref. #2001-11005)

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Sample Location	Sampe I.D.	Depth (feet)	Soil Status	PID Analyses (ppm)	Sample Date	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
Area Surface Background Composite	LL72001BGC	1	In Situ	14.3	20-Jui-01	<0.025	<0.025	<0.025	<0.050	<0.125	<10	64	64	1
Northwest Excavation Sidewall Composite	LL72001NWESWC	1	Excavated	1.11	20-Jul-01	<0.025	<0.025	<0.025	0.044	0.044	<10	504	504	1
Southwest Excavation Sidewall Composite	LL72001SWESWC	1	Excavated	2.4	20-Jul-01	<0.025	<0.025	<0.025	0.026	0.0260	<10	263	263	:
Northeast Excavation Sidewall Composite	LL72001NEESWC	1	Excavated	7.0	20-Jul-01	<0.025	<0.025	<0.025	0.035	0.035	<10	<10	<10	1
Southeast Excavation Sidewall Composite	LL72001SEESWC	1	Excavated	9.7	20-Jul-01	<0.025	<0.025	<0.025	<0.050	<0.125	<10	411	411	1
Excavation Center Bottom Hole Composite	LL72001ECBHC	1	In Situ	454	20-Jul-01	0.198	4.01	3.35	12.3	19.8	537	6,270	6,810	1
Excavation Perimeter Bottom Hole Composite	LL72001EPBHC	1	In Situ	110	20-Jul-01	<0.025	0.034	<0.025	0.249	0.283	55	1.250	1.310	
Northeast Flow Path Bottom Hole Composite	LL7201NEFPBHC	1	In Situ	12.2	20-Jul-01	<0.025	<0.025	<0.025	<0.050	<0.125	<10	383	383	:
South Flow Path Bottom Hole Composite	LL72001SFPBHC	-	Excavated	35.0	20-Jul-01	<0.025	<0.025	<0.025	<0.050	<0.125	62	1.710	1.770	:
Southeast Flow Path Sidewall Composite	LL72001SEFPSWC	1	Excavated	87.4	20-Jul-01	<0.025	<0.025	0.086	0.524	0.610	82	1.740	1,820	;
Northwest Flow Path Sidewall Composite	LL72001NWFPSWC	1	Excavated	7.5	20-Jul-01	<0.025	<0.025	<0.025	<0.050	<0.125	<10	31.3	31.3	
South Sidewall Composite	SLS120601SSWC	1	In Situ	1	06-Dec-01	<0.025	<0.025	<0.025	<0.050	<0.125	<10	64	64 ^B	-
North Sidewall Composite	SLS120601NSWC	ŧ	In Situ	1	06-Dec-01	<0.025	0.035	<0.025	0.056	0.0910			10 c	: :
West Sidewall Composite	SLS120601WSWC	:	In Situ	:	06-Dec-01	<0.025	<0.025	<0.025	<0.050	<0.125	1		90 ^د	
East Sidewall Composite	SLS120601ESWC	1	In Situ	1	06-Dec-01	<0.025	0.026	<0.025	<0.050	0.03	÷	1	70 ^c	1
I ds	SB - 1 (15')	15	In Situ	;	06-Aug-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	12.5	12.5	I
1-00	SB - 1 (37.5')	37.5	In Situ	;	06-Aug-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	1
VIN V	MW - 4 (20')	20	In Situ	1	06-Aug-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	1
	MW - 4 (35')	35	In Situ	1	06-Aug-02	0.169	0.424	0.582	1.83	3.01	114	97.1	211	1
	MW - 5 (15')	15	In Situ	1	07-Aug-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	4
MW-5	MW - 5 (30')	30	In Situ	1	07-Aug-02	<0.025	0.051	0.103	0.333	0.487	49.3	59.4	109	-
	MW - 5 (35')	35	In Situ	}	07-Aug-02	<0.025	0.038	0.039	0.325	0.402	74.4	103	177	;

TABLE 1

Summary of Soil Sample Laboratory Analytical Results

Plains Pipeline, LLC- Livingston Ridge to Hugh-P.Sims (Ref. #2001-11005)

Sample L.D.	Depth (feet)	Soil Status	PID Analyses (ppm)	Sample Date	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
	15	In Situ	;	07-Aug-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	ţ
	40	In Situ	:	07-Aug-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	:
	15	In Situ	:	07-Aug-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	1
	30	In Situ	:	07-Aug-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	-
	20	In Situ	1	08-Aug-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	1
	40	In Situ	1	08-Aug-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	248
	20	In Situ	I	08-Aug-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	1
	35	In Situ	-	08-Aug-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	142
	10	In Situ	:	08-Aug-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	:
	25	In Situ	;	08-Aug-02	<0.025	<0.025	<0.025	0.040	0.040	<10.0	<10.0	<10.0	ł
	35	In Situ	:	08-Aug-02	<0.025	0.047	0.051	0.120	0.218	<10.0	<10.0	<10.0	35.4
W Btm	15	In Situ	:	20-Aug-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	<20.0
Stm	15	In Situ	1	20-Aug-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	<20.0
om Btm	12	In Situ	1	20-Aug-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	<20.0
rom Btm	12	In Situ	;	20-Aug-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	<20.0
om Btm	12	In Situ	;	20-Aug-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	<20.0
rom Btm	12	In Situ	-	20-Aug-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	<20.0
		Bio Cell	-	29-Aug-02	<0.025	<0.025	<0.025	0.091	0.091	54.2	1,800	1,850	47.2
	;	Bio Cell	1	29-Aug-02	<0.025	0.025	0.032	0.298	0.355	164	4,600	4,760	94.5
	1	Bio Cell	ł	29-Aug-02	<0.025	0.026	0.037	0.652	0.715	283	4,580	5,130	80
	*	Bio Cell	ł	29-Aug-02	<0.025	<0.025	<0.025	0.097	0.097	<10.0	198	198	23.6

1.1

TABLE 1

1 1

Summary of Soil Sample Laboratory Analytical Results

Plains Pipeline, LLC- Livingston Ridge to Hugh-P.Sims (Ref. #2001-11005)

Sample Location	Sample I.D.	Depth (feet)	Soil Status	PID Analyses (ppm)	Sample Date	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
North Stockpile North Side	N. Stockpile N. Side	1	Excavated	:	29-Aug-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	23.6
North Stockpile West Side	N. Stockpile W. Side	1	Excavated	;	29-Aug-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	23.6
North Stockpile Southwest Side	N. Stockpile SW Side	;	Excavated	1	29-Aug-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	23.6
North Stockpile Southeast Side	N. Stockpile SE Side	1	Excavated	1	29-Aug-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	23.6
II-MM	MW - 11 (35')	35	In Situ	:	11-Oct-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	ł
	MW - 11 (40')	40	In Situ	:	11-Oct-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	30.3	30.3	1
CLIMM	MW - 12 (20')	20	In Situ	1	14-Oct-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	1
7	MW - 12 (32')	32	In Situ	1	14-Oct-02	0.342	0.535	1.36	3.68	5.91	97.3	340	437	1
MW-13	MW - 13 (20')	20	In Situ	1	15-Oct-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	1
	MW - 13 (40')	40	In Situ	1	15-Oct-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	1
4 MW	MW - 14 (30')	30	In Situ	l	16-Oct-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	
	MW - 14 (40')	40	In Situ	I	16-Oct-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	1
STAW	MW - 15 (20')	20	In Situ	ł	16-Oct-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	:
	MW - 15 (45')	45	In Situ	1	16-Oct-02	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<10.0	ł
Northeast Bio Cell Quad	PLRH9805-NE	1	Bio Cell	;	08-Sep-05	1		;	;	1	<10.0	<10.0	<10.0	1
Northwest Bio Cell Quad	PLRH9805-NW	1	Bio Cell	1	08-Sep-05	;	1	1	;	ł	11.6	177	189	1
Southeast Bio Cell Quad	PLRH9805-SE	1	Bio Cell	1	08-Sep-05			1	I	ł	10.2	290	300	
Southwest Bio Cell Quad	PLRH9805-SW	1	Bio Cell	1	08-Sep-05	-	1	1	-	-	10.9	476	487	1
	NMOCD Remedial Thres	holds				10				50			100	250 ^A

Bolded values are in excess of MMOCD Remediation Thresholds ^A Chloride residuals may not be capable of impacting local groundwater above the NMWQCC standards of 250 mg/L. ^B Analyzed utilizing EPA Method 8015M ^C Analyzed utilizing EPA Method 418.1 Shaded cells indicate sampling events performed by ETGI

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APPENDIX

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APPENDIX A

Analytical Reports and Chain-of-Custody Forms

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENRON TRANSPORATION SERVICES ATTN: MR. FRANK HERNANDEZ 5805 EAST HIGHWAY 80 MIDLAND, TEXAS 79701 FAX: 682-2781 FAX: 505-392-2946 FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil Sample Condition: Intact/ Iced/ 2.5 deg C Project #: 2001-11005 Project Name: Livingston Line Project Location: None Given

Sampling Date: 07/20/01 Receiving Date: 07/23/01 Analysis Date: 07/23/01

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	
0101187-01	LL72001BGC	<10	64	
0101187-02	LL72001NWESWC	<10	504	
0101187-03	LL72001SWESWC	<10	263	
0101187-04	LL72001NEESWC	<10	<10	
0101187-05	LL72001SEESWC	<10	411	
0101187-06	LL72001ECBHC	537	6270	
0101187-07	LL72001EPBHC	55	1250	
0101187-08	LL72001NEFPBHC	<10	383	
0101187-09	LL72001SFPBHC	62	1710	
0101187-10	LL72001SEFPSWC	82	1740	
0101187-11	LL72001NWFPSWC	<10	31.3	

517	522
500	500
103	104
476	476
<10	<10
505	499
496	514
106	105
<10	<10
2	3
	517 500 103 476 <10 505 496 106 <10 2

Methods: EPA SW 846-8015M GRO/DRO

Celey D. Keyne 07/24/01 Date

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ENVIRONMENTAL LAB OF 4, INC.

"Don't Treat Your Soil Like Dirt!"

ENRON TRANSPORTATION SERVICES ATTN: MR. FRANK HERNANDEZ 5805 EAST HIGHWAY 80 MIDLAND, TEXAS 79701 FAX: 682-2781 FAX: 505-392-2946 FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil Sample Condition: Intact/ Iced/ 2.5 deg C Project #: 2001-11005 Project Name: Livingston Line Project Location: None Given

Sampling Date: 07/20/01 Receiving Date: 07/23/01 Analysis Date: 07/23/01

ELT#	FIELD CUDE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
0101187-01 0101187-02 0101187-03 0101187-04 0101187-05 0101187-06 0101187-06	LL72001BGC LL72001NWESWC LL72001SWESWC LL72001SEESWC LL72001SEESWC LL72001ECBHC	<0.025 <0.025 <0.025 <0.025 <0.025 <0.025 0.198 <0.025	<0.025 <0.025 <0.025 <0.025 <0.025 <0.025 4.01	<pre></pre>	<0.025 0.044 0.026 0.035 <0.025 6.96	<0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 5.33
0101187-07 0101187-08 0101187-09 0101187-10 0101187-11	LL72001EPBHC LL72001NEFPBHC LL72001SFPBHC LL72001SEFPSWC LL72001NWFPSWC	<0.025 <0.025 <0.025 <0.025 <0.025 <0.025	0.034 <0.025 <0.025 <0.025 <0.025	<0.025 <0.025 <0.025 0.086 <0.025	0.083 <0.025 <0.025 0.317 <0.025	0.166 <0.025 <0.025 0.207 <0.025

QUALITY CONTROL	0.099	0.098	0.095	0.211	0.097
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% INSTRUMENT ACCURACY	99	98	95	106	97
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	<0.025	<0.025	< 0.025	0.026	<0.025
SPIKE	0.095	0.093	0.091	0.203	0.094
SPIKE DUP	0.096	0.095	0.092	0.207	0.097
% EXTRACTION ACCURACY	95	93	91	101	94
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025
RPD	1	2	1	2	3

METHODS: EPA SW 846-8021B ,5030

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Project Manager; _	Frank HERMANDEZ	Project Name: 1.1 V v o Chor 1.1.1
Company Name	EARON VRANSPORTATION SERVICES	Project # Ziry / - / 1 Cr
Company Address; _	5805 East Highway 80	Project Lar:
C#y/State/Zip: _	Midland Texas 79701	404
Telephone Na:	915.638.3799 Far No: 915.392, 2916	
Sampler Signature:	Coan Milla	

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"Don't Treat Your Soil Like Dirt!"

EOTT ATTN: FRANK HERNANDEZ 5805 E. HIGHWAY 80 MIDLAND, TEXAS 79701 FAX: 684-3456 FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil Sample Condition: Intact/ Iced/ -1.0 deg C Project Name: Livingston GP Sims Project =: None Given Project Location: None Given PO#: 2001-11005 Sampling Date: 12/06/01 Receiving Date: 12/07/01 Analysis Date: 12/10/01

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	TPH mg/kg
0102177-01	SLS120601SSWC	<0.025	<0.025	<0.025	<0.025	<0.025	290
0102177-02	SLS120601NSWC	<0.025	0.035	<0.025	0.056	<0.025	10
0102177-01	SLS120601WSWC	<0.025	<0.025	<0.025	<0.025	<0.025	90
0102177-04	SLS120601ESWC	<0.025	0.026	<0.025	<0.025	<0.025	70

QUALITY CONTROL	0.106	0.109	0.109	0.224	0.106	484
TRUE VALUE	0.100	0.100	0.100	0.200	0.100	509
% IA	106	109	109	112	106	95
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100	255
ORIGINAL SAMPLE	<0.025	<0.025	<0.025	<0.025	<0.025	29
SPIKE	0.104	0.112	0.112	0.232	0.112	283
SPIKE DUP	0.104	0.112	0.112	0.230	0.113	279
%EA	104	112	112	115	113	100
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025	<10
RPD	0.00	0.00	0.00	0.86	0.89	1.42

METHODS: EPA SW 846-8021B ,5030, EPA 418.1

aladk 1.00 Celey D. Keene

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Raland K. Tuttle

12-13-01 Date



"Don't Treat Your Soil Like Dirt!"

EOTT ATTN: FRANK HERNANDEZ 5805 E. HIGHWAY 80 MIDLAND, TEXAS 79701 FAX: 684-3456 FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil Sample Condition: Intact/Iced/ -1.0 deg C Project Name: Livingston GP Sims Project #: None Given Project Location: None Given PO#: 2001-11005 Sampling Date: 12/06/01 Receiving Date: 12/07/01 Analysis Date: 12/13/01

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	
0102177-01	SLS120601SSWC	<10	64	

OUALITY CONTROL	423	426
TRUE VALUE	500	500
% INSTRUMENT ACCURACY	85	85
SPIKED AMOUNT	476	476
ORIGINAL SAMPLE	<10	64
SPIKE	471	488
SPIKE DUP	453	473
% EXTRACTION ACCURACY	99	89
BLANK	<10	<10
RPD	3.90	3.12

Methods: EPA SW 846-8015M GRO/DRO

Delene Celey D. Keene Raland K. Tuttie

12/14/01 Date



ANALYTICAL REPORT

Prepared for:

Ken Dutton Environmental Technology Group, Inc. 2540 W. Marland Hobbs, NM 88242

Project: Livingston Ridge To Hugh P. Sims

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PO#:

Order#: G0204147

Report Date: 08/12/2002

<u>Certificates</u> US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST Environmental Technology Group, Inc. Order#: G0204147 2540 W. Marland Project: EO 2096 Hobbs, NM 88242 Project Name: Livingston Ridge To Hugh P. Sims 505-397-4701 Location: Eunice, NM The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted. Date / Time Date / Time ab ID: Collected Received Container Preservative Sample : Matrix: 204147-01 SB-1 (15') SOIL 8/6/02 8/8/02 4 oz glass Ice 11:08 10:40 0 C Lab Testing: Rejected: No Temp: 8015M 8021B/5030 BTEX 8/6/02 8/8/02 SOIL 4 oz glass Ice 204147-02 SB-1 (37.5') 10:40 13:05 Lab Testing: Rejected: No Temp: 0 C 8015M 8021B/5030 BTEX 8/6/02 8/8/02 MW-4 (20') SOIL 4 oz glass Ice 204147-03 15:26 10:40 0 C Lab Testing: Rejected: No Temp: 8015M 8021B/5030 BTEX 8/7/02 8/8/02 MW-4 (35') SOIL 4 oz glass Ice 204147-04 10:40 16:20 0 C Lab Testing: Rejected: No Temp: 8015M 8021B/5030 BTEX 8/8/02 8/7/02 Ice 0204147-05 MW-5 (15') SOIL 4 oz glass 10:40 8:47 0 C Lab Testing: Rejected: No Temp: 8015M 8021B/5030 BTEX MW-5 (30') SOIL 8/7/02 8/8/02 4 oz glass Ice 0204147-06 9:32 10:40 0 C Rejected: No Temp: Lab Testing: 8015M 8021B/5030 BTEX 204147-07 8/7/02 8/8/02 Ice MW-5 (35') SOIL 4 oz glass 10:40 9:48 0 C Lab Testing: Rejected: No Temp:

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

Environmental Technology Group, Inc. 2540 W. Marland Hobbs, NM 88242 505-397-4701 Order#:G0204147Project:EO 2096Project Name:Livingston Ridge To Hugh P. SimsLocation:Eunice, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID:	Sample :	<u>Matrix:</u>		Date / Time Collected	e D	ate / Time Received	Container	Preservative
	8015M 8021B/5030 BTEX							
0204147-08	MW-6 (15')	SOIL		8/7/02 11:14		8/8/02 10:40	4 oz glass	Ice
La	tb Testing:	Rejected:	No	Т	emp:	0 C		
	8015M							
	8021B/5030 BTEX							
0204147-09	MW-6 (40')	SOIL		8/7/02		8/8/02	4 oz glass	Ice
				12:11		10:40		
La	<u>b Testing:</u>	Rejected:	No	Т	emp:	0 C		
	8015M							
	8021B/5030 BTEX							
0204147-10	MW-7 (15')	SOIL		8/7/02		8/8/02	4 oz glass	Ice
				15:49		10:40		
<u>La</u>	<u>b Testing:</u>	Rejected:	No	Т	`emp:	0 C		
	8015M							
	8021B/5030 BTEX							
0204147-11	MW-7 (30')	SOIL		8/7/02		8/8/02	4 oz glass	Ice
				16:20		10:40		
<u>La</u>	<u>b Testing:</u>	Rejected:	No	Т	emp:	0 C	*	
	8015M							
	8021B/5030 BTEX							

ENVIRONMENTAL LAB OF TEXAS VTICAT DEDODT

Ken Dutton Environmental 7 2540 W. Marlan Hobbs, NM 882	Fechnology Group, In d 242			Order#: Project: Project Name Location:	G020 EO 2 : - Livin Eunio	94147 096 gston Ridge To ce, NM	o Hugh P. Sims
Lab ID: Sample ID:	0204147-01 SB-1 (15')						
				8015M			
	Method <u>Blank</u>	Date <u>Prepared</u> 8/8/02	Date <u>Analyzed</u> 8/8/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	<u>Method</u> 8015M
		Parameter		Result mg/kg		RL	
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35		12.5		10.0	
		101AL, C6-C35		12.5		10.0	
			8021B	3/5030 BTEX			
	Method	Date	Date	Sample	Dilution	Analyst	Mathod
	<u>Blank</u> 0002770-02	Teparcu	8/9/02 13:40	1	25	CK	8021B
		Parameter		Result mg/kg		RL	
		Benzene		<0.025		0.025	
		Ethylbenzene		< 0.025		0.025	
		Toluene		<0.025		0.025	
		p/m-Xylene		<0.025		0.025	
Lab ID: Sample ID:	0204147-02 SB-1 (37.5')				1		
				8015M			
	Method	Date	Date	Sample	Dilution	Analust	Mathod
	Blank	8/8/02	Analyzed 8/8/02	Amount 1	ractor 1	<u>Analyst</u> CK	8015M
					-		
		Parameter		Result mg/kg		RL	
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35		<10.0		10.0	
		ITUTAL UD-UJD		0.01~	1	10.0	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

TOTAL, C6-C35

Page 1 of 11

ENVIRONMENTAL LAB OF TEXAS I, LTD.

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12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

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ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

Ken Dutton	Order#:	G0204147
Environmental Technology Group, Inc.	Project:	EO 2096
2540 W. Marland	Project Name:	Livingston Ridge To Hugh P. Sims
Hobbs, NM 88242	Location:	Eunice, NM

Lab ID: Sample ID:

0204147-02 SB-1 (37.5')

		8021B	x/5030 BTE	X		
Method <u>Blank</u> 0002770-02	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/9/02 14:02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 25	<u>Analyst</u> CK	Methoo 8021B
	Parameter	<u></u>	Resu mg/l	ılt cg	RL	
E	Senzene		<0.0	25	0.025	
Ē	thylbenzene		<0.02	25	0.025	
T	oluene		<0.02	25	0.025	
p	/m-Xylene		<0.02	25	0.025	
0	-Xylene		<0.02	25	0.025	

Lab	ID:	
-		

Sample ID:

0204147-03 MW-4 (20')

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u> 8/8/02	Date <u>Analyzed</u> 8/8/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	Method 8015M
	Parameter		Resul mg/kg	lt g	RL	
	GRO, C6-C12		<10.0)	10.0	
	DRO, >C12-C35	-	<10.0)	10.0	
	TOTAL, C6-C35		<10.0)	10.0	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 2 of 11

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS ANAL WTICAL DEDODT

Environmental To 2540 W. Marland Hobbs, NM 8824	echnology Group, In 12	с.		Order#: Project: Project Name Location:	G0204 EO 20 :: Living Eunic	4147 196 gston Ridge To e, NM	o Hugh P. Sims
Lab ID: Sample ID:	0204147-03 MW-4 (20')						
			8021B	/5030 BTEX			
	Method <u>Blank</u> 0002770-02	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/9/02 14:24	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 25	<u>Analyst</u> CK	Method 8021B
		Parameter		Result		RL	
		Benzene		<0.025		0.025	
		Ethylbenzene		<0.025		0.025	
		Toluene		<0.025		0.025	`
		p/m-Xylene		<0.025	;	0.025	
		o-Xylene		<0.025		0.025	
Lab ID: Sample ID:	0204147-04 MW-4 (35') Method Blank	Date Prepared	Date Analyzed	8015M Sample Amount	Dilution Factor	Analyst	Method
.ab ID: ample ID:	0204147-04 MW-4 (35') Method <u>Blank</u>	Date <u>Prepared</u> 8/8/02	Date <u>Analyzed</u> 8/8/02	8 <i>015M</i> Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	<u>Method</u> 8015M
Lab ID: Sample ID:	0204147-04 MW-4 (35') Method <u>Blank</u>	Date <u>Prepared</u> 8/8/02 Parameter GRO, C6-C12 DRO, >C12-C35	Date <u>Analyzed</u> 8/8/02	8015M Sample <u>Amount</u> 1 Result mg/kg 114 97.1	Dilution Factor 1	Analyst CK RL 10.0 10.0	<u>Method</u> 8015M

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Ken Dutton	Order#:	G0204147
Environmental Technology Group, Inc.	Project:	EO 2096
2540 W. Marland	Project Name:	Livingston Ridge To Hugh P. Sims
Hobbs, NM 88242	Location:	Eunice, NM

Lab ID: Sample ID:

0204147-04 MW-4 (35')

		8021B	/5030 BTEX	C		
Method <u>Blank</u> 0002770-02	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/9/02 14:46	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 25	<u>Analyst</u> CK	Method 8021B
	Parameter		Resu mg/kg	lt g	RL	
В	enzene		0.169)	0.025	
E	thylbenzene		0.582	2	0.025	
Т	oluene		0.424	<u>ا</u>	0.025	
p	/m-Xylene		1.47		0.025	
0	-Xylene		0.358	3	0.025	

		Method	Date	D
Sa	mple ID:	MW-5 (15')		
La	ıb ID:	0204147-05		

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u> 8/8/02	Date <u>Analyzed</u> 8/8/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	<u>Method</u> 8015M
	Parameter		Resu mg/k	lt	RL	
	GRO, C6-C12		<10.0	0	10.0	
	DRO, >C12-C35		<10.	0	10.0	
	TOTAL, C6-C35		<10.	0	10.0	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 4 of 11

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800 ENVIRONMENTAL LAB OF TEXAS I, LTD.

Ken Dutton	Order#:	G0204147	
Environmental Technology Group, Inc.	Project:	EO 2096	•
2540 W. Marland	Project Name:	Livingston Ridge To Hugh P. Sims	
Hobbs, NM 88242	Location:	Eunice, NM	

Lab ID: Sample ID; 0204147-05 MW-5 (15')

-							
			80211	3/5030 BTEX			
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
	0002770-02		8/9/02 12:24	1	25	СК	8021B
		Parameter		Resul mg/kg	lt 3	RL	
		Benzene		<0.02	5	0.025	
		Ethylbenzene		<0.02	5	0.025	
		Toluene	<u> </u>	<0.02	5	0.025	
		p/m-Xylene		<0.02	5	0.025	
		o-Xylene		<0.02	5	0.025	
Lab ID: Sample ID:	0204147-06 MW-5 (30')						
				8015M			
	Method <u>Blank</u>	Date <u>Prepared</u> 8/8/02	Date <u>Analyzed</u> 8/8/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	<u>Method</u> 8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	49.3	10.0
DRO, >C12-C35	59.4	10.0
TOTAL, C6-C35	109	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

Ken Dutton	Order#:	G0204147
Environmental Technology Group, Inc.	Project:	EO 2096
2540 W. Marland	Project Name:	Livingston Ridge To Hugh P. Sims
Hobbs, NM 88242	Location:	Eunice, NM

Lab ID: Sample ID:

0204147-06 MW-5 (30')

		8021B	X/5030 BTEX			
Method <u>Blank</u> 0002770-02	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/9/02 15:30	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 25	<u>Analyst</u> CK	Method 8021B
	Parameter		Result mg/kg		RL	
E	Benzene		<0.025		0.025	
E	Ethylbenzene		0.103		0.025	
τ	oluene		0.051		0.025	
p	/m-Xylene		0.276		0.025	
0	-Xylene		0.057		0.025	

Lab ID:	0204147-07
Sample ID:	MW-5 (35')

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u> 8/8/02	Date <u>Analyzed</u> 8/8/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	Method 8015M
	Parameter		Resu mg/k	lt g	RL	
	GRO, C6-C12		74.4	1	10.0	
	DRO, >C12-C35		103		10.0	
	TOTAL, C6-C35		. 177	· · · · ·	10.0	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 6 of 11

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800 ENVIRONMENTAL LAB OF TEXAS I, LTD.

ENVIRONMENTAL LAB OF TEXAS

Ken Dutton Environmental Techno 2540 W. Marland Hobbs, NM 88242	ology Group, In	с.		Order#: Project: Project Name Location:	G0204 EO 20 : Living Eunice	1147 196 1ston Ridge To e, NM	o Hugh P. Sims
Lab ID: 02 Sample ID: M	204147-07 IW-5 (35')						
			8021E	8/5030 BTEX			
	Method <u>Blank</u> 0002770-02	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/9/02 15:52	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 25	<u>Analyst</u> CK	Method 8021B
		Parameter		Result mg/kg		RL	
		Benzene		< 0.025		0.025	
		Ethylbenzene		0.039		0.025	
		Toluene		0.038		0.025	
		p/m-Xylene		0.258		0.025	
		o-Xylene	. 10110	0.067		0.025	
Lab ID: 02 Sample ID: M	204147-08 IW-6 (15')			0015NA			
	Mathod	Data	Data	Sampla	Dilution		
	Blank	Prepared	Analyzed	Amount	Factor	Analyst	Method
		8/8/02	8/8/02	1	1	СК	8015M
		Parameter		Result		RL	
						I	
		GRO, C6-C12		<10.0		10.0	
		GRO, C6-C12 DRO, >C12-C35		<10.0 <10.0		10.0 10.0	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS I, LTD. 12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

Order#:	G0204147
Project:	EO 2096
Project Name:	Livingston Ridge To Hugh P. Sims
Location:	Eunice, NM
	Order#: Project: Project Name: Location:

Lab ID: Sample ID:

0204147-08 MW-6 (15')

	8021B/5030 BTEX								
Method <u>Blank</u> 0002770-02	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/9/02 16:14	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 25	<u>Analyst</u> CK	Methoo 8021B			
ſ	Parameter	· <u>·····</u> ······························	Result mg/kg		RL				
[]	Benzene		<0.025		0.025				
1	Ethylbenzene		<0.025		0.025				
-	Toluene	- <u></u>	<0.025		0.025				
-	p/m-Xylene		<0.025		0.025				
	o-Xylene	······································	<0.025		0.025				

Lab ID:	0204147-09	
Sample ID:	MW-6 (40')	

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u> 8/8/02	Date <u>Analyzed</u> 8/8/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	<u>Method</u> 8015M
	Parameter		Resu mg/k	lt	RL	
	GRO, C6-C12		<10.0	0	10.0	
	DRO, >C12-C35	•	<10.0	0	10.0	
	TOTAL, C6-C35		<10.0	0	10.0	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 8 of 11

ENVIRONMENTAL LAB OF TEXAS I, LTD. 12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

Ken Dutton		Order#:	G0204147	
Environmental Technology Group, Inc.		Project:	EO 2096	
2540 W. Marland		Project Name:	Livingston Ridge To Hugh P. Sims	
Hobbs, NM 88242		Location:	Eunice, NM	
Lab ID:)204147-09			

Sample ID: MW-6 (40') 8021B/5030 BTEX Method Date Date Sample Dilution Amount Blank Analyzed <u>Factor</u> Prepared <u>Analyst</u> 8/9/02 1 25 СК 0002770-02 16:36 Result Parameter RL mg/kg < 0.025 0.025 Benzene < 0.025 0.025 Ethylbenzene < 0.025 0.025 Toluene p/m-Xylene < 0.025 0.025 0.025 < 0.025 o-Xylene

Lab ID: 0204147-10 Sample ID: MW-7 (15')

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u> 8/8/02	Date <u>Analyzed</u> 8/8/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	Method 8015M
	Parameter		Resu mg/k	lt	RL	
	GRO, C6-C12		<10.	0	10.0	
	DRO, >C12-C35		<10.	0 .	10.0	
	TOTAL, C6-C35		<10.	0	10.0	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

Method

8021B

Ken Dutton	Order#:	G0204147
Environmental Technology Group, Inc.	Project:	EO 2096
2540 W. Marland	Project Name:	Livingston Ridge To Hugh P. Sims
Hobbs, NM 88242	Location:	Eunice, NM

Lab ID: Sample ID:

0204147-10 MW-7 (15')

Method <u>Blank</u> 0002770-02	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/9/02 18:46	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 25	<u>Analyst</u> CK	Method 8021B
	Danamatan		Resu	lt	19	
	Parameter		mg/k	g		
	Benzene		<0.02	25	0.025	
	Ethylbenzene		<0.02	25	0.025	
	Toluene		<0.02	25	0.025	
	p/m-Xylene		<0.02	25	0.025	
	o-Xylene		<0.02	25	0.025	
	and the second se	and the second se	And the second se			

8021B/5030 BTEX

Lab ID: Sample ID:

0204147-11 MW-7 (30')

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u> 8/8/02	Date <u>Analyzed</u> 8/8/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	<u>Method</u> 8015M
	Parameter		Resu mg/k	lt g	RL	
	GRO, C6-C12	··	<10.	0	10.0	
	DRO, >C12-C35		<10.	0	10.0	
	TOTAL, C6-C35	·g.,	<10.	0 /	10.0	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 10 of 11

ENVIRONMENTAL LAB OF TEXAS I, LTD.

Ken Dutton	Order#:	G0204147	
Environmental Technology Group, Inc.	Project:	EO 2096	
2540 W. Marland	Project Name:	Livingston Ridge To Hugh P. Sims	
Hobbs, NM 88242	Location:	Eunice, NM	

Lab ID: Sample ID: 0204147-11 MW-7 (30')

Method <u>Blank</u> 0002770-02	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/9/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 25	<u>Analyst</u> CK	<u>Metho</u> 8021E
0002770-02		19:09				
	Parameter		Result mg/kg		RL	
	Benzene		<0.025	1	0.025	
	Ethylbenzene		<0.025	;	0.025	
	Toluene		<0.025		0.025	
	p/m-Xylene		<0.025	i	0.025	
	o-Xylene		<0.025		0.025	

une 8/14/02 Approval: Date

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

 $DL \approx$ Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

8015M

Order#: G0204147

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0002757-02			<10.0		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0002757-03		1000	1180	118.%	·····
CONTROL DUP	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0002757-04		1000	1010	101.%	15.5%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0002757-05		1000	1160	116.%	

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT 8021B/5030 BTEX Or

Order#: G0204147

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	·······	0002770-02			<0.025		
Ethylbenzene-mg/kg		0002770-02			<0.025		
Toluene-mg/kg		0002770-02			<0.025	,	
/m-Xylene-mg/kg	<u> </u>	0002770-02			<0.025		
-Xylene-mg/kg		0002770-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0204147-11	0	0.1	0.093	93.%	
Ethylbenzene-mg/kg		0204147-11	0	0.1	0.099	99.%	
oluene-mg/kg		0204147-11	0	0.1	0.096	96.%	
/m-Xylene-mg/kg		0204147-11	0	0.2	0.206	103.%	
o-Xylene-mg/kg	····	0204147-11	0	0.1	0.099	99.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0204147-11	0	0.1	0.093	93.%	0.%
Ethylbenzene-mg/kg		0204147-11	0	0.1	0.098	98.%	1.%
oluene-mg/kg		0204147-11	0	0.1	0.097	97.%	1.%
p/m-Xylene-mg/kg	<u> </u>	0204147-11	0	0.2	0.204	102.%	1.%
-Xylene-mg/kg		0204147-11	0	0.1	0.098	98.%	1.%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	<u> </u>	0002770-05		0.1	0.092	92.%	
Ethylbenzene-mg/kg		0002770-05		0.1	0.096	96.%	
Toluene-mg/kg		0002770-05		0.1	0.096	96.%	
p/m-Xylene-mg/kg		0002770-05		0.2	0.200	100.%	
o-Xylene-mg/kg		0002770-05	<u></u>	0.1	0.096	96.%	
					<u> </u>	and a second	

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4	(LRHPS)	To Hear P. Sims	1					:		əınpəų	۲۲ (Pre-Sc	TAT H	SUA NGIZ		×	X	×	-	Z	X	7	×	×	z ≻			
<u>.</u>	DY RECORD AND ANALYSIS	me.LIVINGSTONRIDEC	11# EO2091	DC: EUNICE, N.M.	;# C		Analyze For:	TCLP: TOTAL:	əç	5 бн qd 5 бн qd 4003)	9030 89 Ca Cu EC	s (Cl. SO r ESP / C ies roadilies r 8021B/5	Anion SAR / Metal Volati BTEX RCI	×	×	×	×	X	×	X	X	×	*	Sample Containers Intact? Temperature Upon Receipt: Laboratory Comments:	<i>D</i> e 0		
	CHAIN OF CUSTO	Project Nai	Projec	Project L	bd	10			Matrix		(), 'EN '61 (), WS10 :() (), (), (), (), (), (), (), (), (), (),	د (Specifi عد 296 196 1874 1874 1874 1874	01/h6 01/h6 01/h6 01/h6 01/h6 01/h6 01/h6 01/h6	×	X	X	×	X	×	X	× ×	×	X		Date Time	Date Time	(),'0/ TO-3-5
			Inc.			505-397-48			Preservative		siənis	of Conti t H	изо Изо Изо Изо Ис Ио. Ио.	/ X/	/ ×/	/ X	/ X		× /	/ X /	X	×/	14		5	,	liberty
, Ltd.			UDLO EX GROUP,	لانعا	242	Fax No					bed Ded	qms2 e	oleQ miT	8/4/02 11:08	8/6/02 13:05	8/6/02 15:26	8/402 16:20	8/2/02 08:47	8/2/02 09:32	8/2/02 09148	8/2/02 11:14	8/3/02 12:11	8/2/02 15:49		Received by:	Received In ET DY	Ulay 3
b of Texas I	Phone: 915-563-1800 Fax: 915-563-1713	Duman	ROUMENTHE VECH	10 WEST MAR	55 /N/M/88	92-4852	1 11						LD CODE		<u>()</u>	·).	() ()) .	う.	· 〔	5).	(0)	(,,		Date Time	SYDOX 0700	\$;0) (0; \$G
nmental La) East 79763	set Manager:	npany Name EM	iny Address: 254	ty/State/Zip:	lephone No: 505-3	r Signature:			-			ndy) FIE	01 513-1/15	02 53-1 (37.	03 mu-4/20	04 MW-4/35	05 MU-5/15'	N. MV-5(30	01 MU-5/35	00 11/1-6/1	09 mu-615	1/2-11/ a	ions:	J.	(X	
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STODY RECORD AND ANALYSIS RE			oject #: EO 2096	ct Loc: EUNCE, NM	PO #:		Analyze For	TCLP: TOTAL:	9	Calions (Ca, Mg, Na, K) Amons (Ci, SO4, CO3, HCO3) SAR / ESP / CEC Vetais, As Ag Ba Cd Cr Pb Hg Sc Semivolatiles Semivolatiles 37C!	×				Sample Containers Intact? Temperature Upon Receipt: Laboratory Comments:	, V V	
CHAIN OF CUS			Pre	Proje		10			Malrix	LbH: 418:1 8012W 1002 1009 Olivet (sbecity): Soul Suidge Olivet (Specity) Olivet (Specity)	X					Date Time	Date Time <i>S</i> - <i>S</i> -02 /0.4
						505-397-47			Preservative	Ио. of Containers Ice HCI HCI H2O,	- X - X					Z	Warth
rıa.				~		Fax No:				Dəlqme2 ənsO	12/02 1620					eived by:	eived by ELOT:
OI I EXAS I, ne: 915-563-1800	ix: 915-563-1713	NUN	L	Thes Maria	N. m/ 88242	92-4582	4			E D D D	8	•				Date Time Rec 18/02 0700	Date Time Rec
nental Lab		lanager:	IN Name ETC.	ddress: 25401	tate/Zip: //hars/	one No: 505-3	juature:				mv-2(30')					08	5 [. [.
ZIIVIFOII 2600 West 1-20 Eas	dessa, lexas 7971	Project M	Сопрал	Company A	City/St.	Telephy	sampler sig			1 HIHO20	1				Special Instructions:	Relinguest by	Relinquished by:

ANALYTICAL REPORT

Prepared for:

Ken Dutton Environmental Technology Group, Inc. 2540 W. Marland Hobbs, NM 88242

Project:	Livingston Ridge to Hugh P. Sims
PO#:	
Order#:	G0204159

Report Date: 08/13/2002

<u>Certificates</u> US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST G0204159 Environmental Technology Group, Inc. Order#: 2540 W. Marland Project: EO 2096 Hobbs, NM 88242 Project Name: Livingston Ridge to Hugh P. Sims 505-397-4701 Location: Eunice, NM The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted. Date / Time Date / Time ab ID: Sample : Collected Received Container Preservative Matrix: MW-8 (20') 8/8/02 8/9/02 SOIL 4 oz glass Ice 0204159-01 10:10 8:32 -1.0 C Lab Testing: Rejected: No Temp: 8015M 8021B/5030 BTEX MW-8 (40') SOIL 8/8/02 8/9/02 4 oz glass Ice 204159-02 10:10 9:32 Rejected: No -1.0 C Lab Testing: Temp: 8015M 8021B/5030 BTEX Chloride 204159-03 MW-9 (20') SOIL 8/8/02 8/9/02 4 oz glass Ice 10:10 11:07 Rejected: No -1.0 C Lab Testing: Temp: 8015M 8021B/5030 BTEX 204159-04 MW-9 (35') SOIL 8/8/02 8/9/02 4 oz glass Ice 11:49 10:10 -1.0 C Lab Testing: Rejected: No Temp: 8015M 8021B/5030 BTEX Chloride MW-10 (10') SOIL 8/8/02 8/9/02 Ice 0204159-05 4 oz glass 14:35 10:10 Rejected: No -1.0 C Lab Testing: Temp: 8015M 8021B/5030 BTEX 0204159-06 MW-10 (25') SOIL 8/8/02 8/9/02 4 oz glass Ice 14:56 10:10 -1.0 C Lab Testing: Rejected: No Temp: 8015M 8021B/5030 BTEX Ph: 915-563-1800 ENVIRONMENTAL LAB OF TEXAS I, LTD. 12600 West I-20 East, Odessa, TX 79765

ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

Environmental Technology Group, Inc. 2540 W. Marland Hobbs, NM 88242 505-397-4701 Order#:G0204159Project:EO 2096Project Name:Livingston Ridge to Hugh P. SimsLocation:Eunice, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

			Date / Time	Date / Time		
<u>Lab ID:</u>	Sample :	<u>Matrix:</u>	Collected	Received	<u>Container</u>	Preservative
0204159-0	7 MW-10 (35')	SOIL	8/8/02	8/9/02	4 oz glass	Ice
			15:32	10:10		
	Lab Testing:	Rejected: No	Tem	p: -1.0 C		
	8015M					
	8021B/5030 BTEX			•		
	Chloride				······································	

Ken Dutton Environmental 7 2540 W. Marlan Hobbs, NM 882	Fechnology Group, In d 242	с.		Order#: Project: Project Name Location:	G020- EO 20 :: Livin Eunic	4159)96 gston Ridge to e, NM) Hugh P. Sims
Lab ID: Sample ID:	0204159-01 MW-8 (20')						
				8015M			
	Method	Date	Date	Sample	Dilution		
	Blank	Prepared	Analyzed	Amount	Factor	Analyst	Method
			8/9/02	1	1	СК	8015M
		Parameter		Result mg/kg		RL	
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35	· · · · · · · · · · · · · · · · · · ·	<10.0		10.0	
		TOTAL, C6-C35		<10.0		10.0	
			8021B	2/5030 BTEX			
	Method	Date	Date	Sample	Dilution	4 - a luat	Mathad
	Blank	rrepared	<u>Analyzed</u> 8/9/02	<u>Amount</u>	<u>ractor</u> 25	CK	8021B
	0002//1-02		23:33	•	25	en	00210
		Parameter		Result mg/kg		RL	
		Benzene		<0.025		0.025	
		Ethylbenzene	<u></u>	<0.025		0.025	
		I oluene		<0.025		0.025	
		p/m-Aylene		<0.023		0.025	
					<u></u>		
Lab ID: Sample ID:	0204159-02 MW-8 (40')				1		
-				8015M			
	Method	Date	Date	Sample	Dilution		
	Blank	Prepared	Analyzed	Amount	Factor	Analyst	Method
			8/9/02	1	1	СК	8015M
		Parameter		Result mg/kg		RL	
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35		<10.0		10.0	
		TOTAL, C6-C35		<10.0		10.0	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 7

ENVIRONMENTAL LAB OF TEXAS I, LTD.

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Ken DuttonOrder#:G0204159Environmental Technology Group, Inc.Project:EO 20962540 W. MarlandProject Name:Livingston Ridge to Hugh P. SimsHobbs, NM 88242Location:Eunice, NM

Lab ID: Sample ID:

0204159-02 D: MW-8 (40')

		8021B	x/5030 BTEX	K		
Method <u>Blank</u> 0002771-02	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/9/02 23:56	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 25	<u>Analyst</u> CK	Method 8021B
	Parameter		Resu mg/k	lt g	RL	
I	Benzene		<0.02	5	0.025	
F	Ethylbenzene		<0.02	25	0.025	
1	Foluene		<0.02	25	0.025	*
F	o/m-Xylene		<0.02	5	0.025	
c	-Xylene		<0.02	5	0.025	

Lab ID: 0204159-03 Sample ID: MW-9 (20')

8015M Method Date Sample Date Dilution Amount Factor Analyst Method Prepared Analyzed Blank 8/9/02 1 1 СК 8015M Result RL Parameter mg/kg GRO, C6-C12 10.0 <10.0 10.0 DRO, >C12-C35 <10.0 TOTAL, C6-C35 <10.0 10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 2 of 7

ENVIRONMENTAL LAB OF TEXAS I, LTD.

Ken Dutton	Order#:	G0204159
Environmental Technology Group, Inc.	Project:	EO 2096
2540 W. Marland	Project Name:	Livingston Ridge to Hugh P. Sims
Hobbs, NM 88242	Location:	Eunice, NM

Lab ID: Sample ID: 0204159-03 MW-9 (20')

		<i>8021B</i>	8/5030 BTE2	K		
Method <u>Blank</u> 0002771-02	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/10/02 16:59	Sample <u>Amount</u> 1	Dilution Factor 25	<u>Analyst</u> CK	Method 8021B
	Parameter		Resu mg/k	ılt g	RL	
Ē	Benzene	<u></u>	<0.02	25	0.025	
Ē	Ethylbenzene		<0.02	25	0.025	
โ	Toluene		<0.02	25	0.025	
F	/m-Xylene		<0.02	25	0.025	
c	-Xylene		<0.02	25	0.025	

Lab ID: 0204159-04 Sample ID: MW-9 (35')

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/9/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	<u>Method</u> 8015M
	Parameter		Resul mg/kg	t	RL	
	GRO, C6-C12	···	<10.0		10.0	
	DRO, >C12-C35		<10.0		10.0	
	TOTAL, C6-C35	····	<10.0	1	10.0	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

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51

Ken Dutton	Order#:	G0204159
Environmental Technology Group, Inc.	Project:	EO 2096
2540 W. Mariand	Project Name:	Livingston Ridge to Hugh P. Sims
Hobbs, NM 88242	Location:	Eunice, NM

Lab ID: Sample ID: 0204159-04 MW-9 (35')

		8021E	B/5030 BTEX	у.		
Method <u>Blank</u> 0002771-02	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/10/02 17:22	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 25	<u>Analyst</u> CK	<u>Method</u> 8021B
	Parameter		Resu mg/kj	lt 3	RL	
Ī	Benzene		< 0.02	5	0.025	
Ī	Ethylbenzene		< 0.02	5	0.025	
-	Foluene		<0.02	5	0.025	
Ī	o/m-Xylene		< 0.02	5	0.025	
Ī	o-Xylene		<0.02	5	0.025	

Lab ID: Sample ID:

: 0204159-05 ID: MW-10 (10')

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/9/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	Method 8015M
Method <u>Blank</u>	Parameter		Resu mg/kj	lt g	RL	
	GRO, C6-C12		<10.0)	10.0	
	DRO, >C12-C35		<10.0	0	10.0	
	TOTAL, C6-C35	· · · · · · · · · · · · · · · · · · ·	<10.0) '	10.0	1

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

Ken Dutton				Order#:	G0204	4159	••••
Environmental T	echnology Group, In	c.		Project:	EO 20)96	
2540 W. Marland	d			Project Name	: Livin	gston Ridge to	Hugh P. Sims
Hobbs, NM 882	42			Location:	Eunic	e, NM	
Lab ID:	0204159-05						
Sample ID:	MW-10 (10')						
			8021B	/5030 BTEX			
	Method	Date	Date	Sample	Dilution		
	Blank	Prepared	Analyzed	Amount	<u>Factor</u>	<u>Analyst</u>	Method
	0002771-02	2	8/10/02 17:44	1	25	СК	8021B
		Parameter		Result mg/kg		RL	
		Benzene		< 0.025		0.025	
		Ethylbenzene		<0.025		0.025	
		Toluene		<0.025		0.025	
		p/m-Xylene		<0.025		0.025	
		o-Xylene		< 0.025		0.025	

			OUI DIVA			
Method Blank	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
		8/9/02	1	1	СК	8015M
	r					
	Parameter		Resul mg/kg	t g	RL	
	GRO, C6-C12		<10.0) ·	10.0	
	DRO, >C12-C35		<10.0)	10.0	
	TOTAL, C6-C35		<10.0) †	10.0	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

Ken Dutton	Order#:	G0204159
Environmental Technology Group, Inc.	Project:	EO 2096
2540 W. Marland	Project Name:	Livingston Ridge to Hugh P. Sims
Hobbs, NM 88242	Location:	Eunice, NM

8021B/5030 BTEX Method Date Date Sample Dilution Blank Prepared Analyzed <u>Amount</u> **Factor** <u>Analyst</u> Method 8/10/02 1 25 СК 8021B 0002771-02 18:06 Result RL Parameter mg/kg 0.025 < 0.025 Benzene 0.025 Ethylbenzene < 0.025 Toluene < 0.025 0.025 p/m-Xylene 0.040 0.025 o-Xylene < 0.025 0.025

Lab ID: 0204159-07 Sample ID: MW-10 (35')

Lab ID:

Sample ID:

0204159-06

MW-10 (25')

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/9/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	Analyst	Method 8015M
		0.0702	·		en	0015111
	Parameter		Resul mg/kg	t	RL	
	GRO, C6-C12		<10.0		10.0	
	DRO, >C12-C35		<10.0		10.0	
	TOTAL, C6-C35		<10.0	1	10.0	

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Page 6 of 7

ENVIRONMENTAL LAB OF TEXAS I, LTD.

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Ken Dutton	Order#:	G0204159	
Environmental Technology Group, Inc.	Project:	EO 2096	-
2540 W. Marland	Project Name:	Livingston Ridge to Hugh P. Sims	
Hobbs, NM 88242	Location:	Eunice, NM	

Lab ID: Sample ID: 0204159-07 MW-10 (35')

		8021B	8/5030 BTEX			
Method <u>Blank</u> 0002771-02	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/10/02 18:28	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 25	<u>Analyst</u> CK	Method 8021B
	Parameter		Resul mg/kg	lt g	RL	
	Benzene		<0.02	5	0.025	
	Ethylbenzene		0.051		0.025	
	Toluene	, , , , , , , , , , , , , , , , ,	0.047	,	0.025	•
	p/m-Xylene		0.120		0.025	
	o-Xylene		< 0.02	5	0.025	

Lune Blueloz Approval:

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

Ken Dutton Environmental 2540 W. Marla Hobbs, NM 88	Technology Group, Inc. nd 1242		Ordera Projec Projec Locatio	#: t: t Name: on:	G0204159 EO 2096 Livingston R Eunice, NM	lidge to Hugh P	. Sims	-
Lab ID: Sample ID:	0204159-02 MW-8 (40')							
Test Paran Parameter	neters	<u>Result</u>	Units	Dilutio <u>Facto</u>	on or <u>RL</u>	Method	Date <u>Analyzed</u>	<u>Analyst</u>
Chloride		248	mg/kg	2	20.0	9253	8/13/02	CK
Lab ID: Sample ID:	0204159-04 MW-9 (35')		· · · · · · · ·					
Test Paran Parameter	neters	Result	Units	Dilutio <u>Facto</u>	on or <u>RL</u>	Method	Date Analyzed	<u>Analyst</u>
Chloride		142	mg/kg	2	20.0	9253	8/13/02	СК
Lab ID: Sample ID:	0204159-07 MW-10 (35')							
Test Paran Parameter	neters	Result	Units	Dilutio <u>Facto</u>	on or <u>RL</u>	Method	Date Analyzed	<u>Analyst</u>
Chloride		35.4	mg/kg	2	20.0	9253	8/13/02	СК

une Bluelor II Ju Approval: Raland K. Tuttle, Lab Directo, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech.

RL = Reporting Limit N/A = Not Applicable

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

8015M

Order#: G0204159

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0002767-02			<10.0		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0002767-03		1000	1100	110.%	
CONTROL DUP	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0002767-04		1000	1180	118.%	7.%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0002767-05		1000	1190	119.%	

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14

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT 8021B/5030 BTEX Order#: G0204159

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0002771-02			<0.025	1	
Ethylbenzene-mg/kg		0002771-02			<0.025		
Toluene-mg/kg		0002771-02			<0.025	1	
p/m-Xylene-mg/kg		0002771-02			<0.025		
o-Xylene-mg/kg		0002771-02		<u>}</u>	<0.025	1	
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0204163-03	0	0.1	0.089	89.%	# =
Ethylbenzene-mg/kg	·	0204163-03	0	0.1	0.094	94.%	
Toluene-mg/kg		0204163-03	0	0.1	0.092	92.%	
p/m-Xylene-mg/kg		0204163-03	0	0.2	0.194	97.%	
o-Xylene-mg/kg		0204163-03	0	0.1	0.094	94.%	······
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0204163-03	0	0.1	0.100	100.%	11.6%
Ethylbenzene-mg/kg	<u></u> <u></u>	0204163-03	0	0.1	0.107	107.%	12.9%
Toluene-mg/kg	· · · · · · · · · · · · · · · · · · ·	0204163-03	0	0.1	0.104	104.%	12.2%
p/m-Xylene-mg/kg		0204163-03	0	0.2	0.219	109.5%	12.1%
o-Xylene-mg/kg	<u> </u>	0204163-03	0	0.1	0.105	105.%	11.1%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0002771-05		0.1	0.093	93.%	
Ethylbenzene-mg/kg		0002771-05		0.1	0.099	99.%	<u></u>
Toluene-mg/kg	<u> </u>	0002771-05		0.1	0.098	98.%	
p/m-Xylene-mg/kg		0002771-05		0.2	0.206	103.%	
o-Xylene-mg/kg		0002771-05		0.1	0.100	100.%	

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

Test Parameters

Order#: G0204159

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0002792-01			<20.0		········
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204133-01	753	833	1566	97.6%	····· ································
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204133-01	753	833	1625	104.7%	3.7%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0002792-04		5000	4870	97.4%	

し AND ANALYSIS REQUEST	vies martle parto they P. Sum.	02096	UNICE, NM			Analyze For:		Volarijes Semvolatijes RCi RCi RCi RUSH TAT (Pre-Schedule Standard TAT (Pre-Schedule	X	X	x	X		X	×	ntainers Intact?	- 10 r		-	
COC#128 CHAIN OF CUSTODY RECOR	Project Name:	Project #:	Project Loc:	PO #:	ł	TCLP.	Matrix o o	Water Sludge Calions (Ca, Mg, Na, K) Aniong(Cl, SO4, CO3, HCO3) Sont Cations (Ca, Mg, Na, K) Aniong(Cl, SO4, CO3, HCO3) SAR / ESP / CEC Metals: As Ag Ba Cd Cr Pb Hg S Sont Ser / ESP / CEC	X	XXX	X X	XXX	X X	×	X X X	Temperature	Date Time	00:2 Co-5	Date Time	0101 20-6
		ve.			1026-205-205		Preservative	No. of Confainers H ₁ SO, H ₂ SO, HCI HCI HCI HCI Mone Mone		/ K	/ X /	×/	× /	× /	×			-B		-B - E-
I, Ltd.		HNOLDEX GROVES I	ertry	12	Fax No:			Dəlqms2 ənsQ Dəlqms2 əmiT	8/8/02 08:32	\$18/02 09:32	2/2/02 11:07	8/8/02 11:49	8/8/02 14:35	8/8/02 14:56	8/8/02 15:32		Received by:	i Vinna V	Received by ELDT:) gearle mem
-ab of Texas Phone: 915-563-1800 Fax: 915-563-1713	en Durran	WIRDN MENTH TRC	SYO LLEST MA	665. NM 8824	5-393-4882	NA AN		FIELD CODE	(20)	(101)	705	357	(101)	251)	(251)		Date Time	100. Y Earl-8	Date Time	0101 20-5-8
Nironmental I 1 West 1-20 East sa, Texas 79763	Project Manager:	Company Name	Company Address:	City/State/Zip:	Telephone No: 505	Sampler Signature:		UlSa min	of M.L.R	61. mk/-81	02 MU-91	16-1711 HO	02-MM 40	De MU-10	ol-174 To	al Instructions:	The by	t t	quished by:	

ANALYTICAL REPORT

Prepared for:

KEN DUTTON E.T.G.I. 2540 WEST MARLAND HOBBS, NM 88240

Project:Livingston Ridge to Hugh P. SimsPO#:G0204278Report Date:08/25/2002

<u>Certificates</u> US EPA Laboratory Code TX00158

11

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

E.T.G.I. 2540 WEST MARLAND HOBBS, NM 88240 505-397-4701 Order#:G0204278Project:EOT 2096Project Name:Livingston Ridge to Hugh P. SimsLocation:Eunice, NM

211

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

				Date / Time	Ι	Date / Time		
Lab ID:	Sample :	Matrix:		Collected	-	Received	Container	Preservative
0204278-01	1st S.S. by Temp. MW Btm.	SOIL		8/20/02 8:25		8/20/02 13:17	4 oz glass	Ice
<u>La</u>	ab Testing:	Rejected:	No	Te	emp:	3.0 C		
	8015M							
	8021B/5030 BTEX							
	Chloride							
0204278-02	2nd S.S. Middle West Btm	SOIL		8/20/02		8/20/02	4 oz glass	Ice
Lo	ah Testing.	Rejected:	No	8.50 Te	mp:	3.0 C		
<u></u>	8015M							
	8021B/5030 BTEX							
	Chloride							
	2rd C C North W-11 21	501		8/20/02		8/20/02	4 07 glass	Īca
0204278-03	From Btm.	SOIL		8:35		13:17	4 02 glass	ice
La	b Testing:	Rejected:	No	Te	mp:	3.0 C		
	8015M							
	8021B/5030 BTEX							
	Chloride							
0204278-04	4th S.S. East Wall 3'	SOIL		8/20/02		8/20/02	4 oz giass	Ice
La	riolit Bull.	Rejected	No	8:40 Te	·mn·	300		
<u>Lu</u>	8015M	Rejected.		* •		5.00		
	8071B/5030 BTEX							
	Chloride							
0204279 05	Sth S S South Wall 3'	SOIL		8/20/02		8/20/02	4 oz glass	Ice
0204278-05	From Btm.	BOIL		8:45		13:17	0	
La	ib Testing:	Rejected:	No	Te	emp:	3.0 C		
	8015M							
	8021B/5030 BTEX							
	Chloride						·.·	
0204278-06	6th S.S. West Wall 3' From Btm.	SOIL		8/20/02 8:50		8/20/02 13:17	4 oz glass	Ice
<u>La</u>	ib Testing:	Rejected:	No	Te	emp:	3.0 C		
	8015M							
FN	VIRONMENTAL LAR O	FTEYASI	170	12600 West	t I-20	East. Odes	sa. TX 79765	Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

E.T.G.I.	Order#:	G0204278
2540 WEST MARLAND	Project:	EOT 2096
HOBBS, NM 88240	Project Name:	Livingston Ridge to Hugh P. Sims
505-397-4701	Location:	Eunice, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID: Sample : Matrix: Collected Received Container Preservative 8021B/5030 BTEX Chloride Chloride				Date / Time	Date / Time		
	Lab ID:	<u>Sample :</u> 8021B/5030 BTEX Chloride	<u>Matrix:</u>	Collected	Received	<u>Container</u>	Preservative

KEN DUTTON	Order#:	G0204278	-
E.T.G.I.	Project:	EOT 2096	
2540 WEST MARLAND	Project Name:	Livingston Ridge to Hugh P. Sims	
HOBBS, NM 88240	Location:	Eunice, NM	

Lab ID:

0204278-01

Sample ID:

1st S.S. by Temp. MW Btm.

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/21/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> I	<u>Analyst</u> CK	Method 8015M
	Parameter		Resul	t	RL	
	GRO, C6-C12	<u></u>	mg/kg <10.0	; · · · ·	10.0	1
	DRO, >C12-C35		<10.0		10.0	
	TOTAL, C6-C35		<10.0		10.0	

8021B/5030 BTEX

Method Blank	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0002933-02		8/22/02	1	25	СК	8021B
		10:47				

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)		
aaa-Toluene	107%	73 115		
Bromofluorobenzene	111%	72 110		

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 6

ENVIRONMENTAL LAB OF TEXAS I, LTD.

KEN DUTTON	Order#:	G0204278
E.T.G.I.	Project:	EOT 2096
2540 WEST MARLAND	Project Name:	Livingston Ridge to Hugh P. Sims
HOBBS, NM 88240	Location:	Eunice, NM

Lab ID:

0204278-02 Sample ID:

2nd S.S. Middle West Btm.

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/21/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	<u>Method</u> 8015M
	Parameter		Resul mg/kg	t	RL	
	GRO, C6-C12		<10.0		10.0	
	DRO, >C12-C35		<10.0		10.0	
	TOTAL, C6-C35		<10.0		10.0	

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0002933-02		8/21/02	1	25	СК	8021B
		23:35				

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	< 0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%	
aaa-Toluene	96%	73	115
Bromofluorobenzene	109%	72	110

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

Page 2 of 6

KEN DUTTON Order#: G0204278 E.T.G.I. Project: EOT 2096 2540 WEST MARLAND Project Name: Livingston Ridge to Hugh P. Sims HOBBS, NM 88240 Location: Eunice, NM	
E.T.G.I. Project: EOT 2096 2540 WEST MARLAND Project Name: Livingston Ridge to Hugh P. Sims HOBBS, NM 88240 Location: Eunice, NM	
2540 WEST MARLAND Project Name: Livingston Ridge to Hugh P. Sims HOBBS, NM 88240 Location: Eunice, NM	
HOBBS, NM 88240 Location: Eunice, NM	
Lab ID: 0204278 03	
Sample ID: 3rd S.S. North Wall 3' From Btm.	

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/21/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	<u>Method</u> 8015M
	Parameter		Result mg/kg		RL	
	GRO, C6-C12		<10.0		10.0	
	DRO, >C12-C35		<10.0		10.0	•
	TOTAL, C6-C35		<10.0		10.0	

8021B/5030 BTEX

Method Blank	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0002950-02		8/22/02	1	25	СК	8021B
		11:31				

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	< 0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%	
aaa-Toluene	110%	73	115
Bromofluorobenzene	111%	72	110

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

Page 3 of 6

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11 Fa

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON E.T.G.I. 2540 WEST MARLAND HOBBS, NM 88240			Order#: Project: Project Nan Location:	G02 EOT ie: Livi Eun	G0204278 EOT 2096 Livingston Ridge to Hugh P. Sim: Eunice, NM		
Lab ID:	0204278-04						
Sample ID:	4th S.S. East Wa	ll 3' From Btm.					
				8015M			
	Method	Date	Date	Sample	Dilution	1	
	Blank	Prepared	Analyzed	Amount	Factor	<u>Analyst</u>	Method
			8/21/02	1	1	СК	8015M
		Parameter		Resu mg/k	t s	RL	
		GRO, C6-C12		<10.0)	10.0	
		DRO, >C12-C35	;	<10.0		10.0	
		TOTAL CC CTA		<10 (10.0	
		101AL, CB-C32	00215	(5020 DTEX			
	Method <u>Blank</u>	Date Prepared	BO21B Date <u>Analyzed</u>	2/5030 BTEX Sample <u>Amount</u>	Dilution Factor	Analyst	Method
	Method <u>Blank</u> 0002950-02	Date <u>Prepared</u>	5 Date <u>Analyzed</u> 8/22/02 11:53	2/5030 BTEX Sample <u>Amount</u> 1	Dilution <u>Factor</u> 25	<u>Analyst</u> CK	<u>Method</u> 8021B
	Method <u>Blank</u> 0002950-02	Date <u>Prepared</u> Parameter	5 Date <u>Analyzed</u> 8/22/02 11:53	2/5030 BTEX Sample <u>Amount</u> 1 Resul	Dilution <u>Factor</u> 25	Analyst CK RL	<u>Method</u> 8021B
	Method <u>Blank</u> 0002950-02	Date <u>Prepared</u> Parameter Benzene	5 Date <u>Analyzed</u> 8/22/02 11:53	2/5030 BTEX Sample <u>Amount</u> 1 Resul mg/kg <0.02	Dilution <u>Factor</u> 25 t	Analyst CK RL 0.025	<u>Method</u> 8021B
	Method <u>Blank</u> 0002950-02	Date <u>Prepared</u> Parameter Benzene Ethylbenzene	5 Date <u>Analyzed</u> 8/22/02 11:53	2/5030 BTEX Sample <u>Amount</u> 1 Resul mg/kg <0.02 <0.02	Dilution <u>Factor</u> 25 t	Analyst CK RL 0.025 0.025	<u>Method</u> 8021B
	Method <u>Blank</u> 0002950-02	Date <u>Prepared</u> Parameter Benzene Ethylbenzene Toluene	5 Date <u>Analyzed</u> 8/22/02 11:53	Amount 1 Resul mg/kg <0.02	Dilution <u>Factor</u> 25 t 5 5 5	Analyst CK RL 0.025 0.025 0.025	<u>Method</u> 8021B
	Method <u>Blank</u> 0002950-02	Date <u>Prepared</u> Parameter Benzene Ethylbenzene Toluene p/m-Xylene	5 Bate <u>Analyzed</u> 8/22/02 11:53	2/5030 BTEX Sample <u>Amount</u> 1 Resul mg/kg <0.02 <0.02 <0.02 <0.02	Dilution <u>Factor</u> 25 t t 5 5 5	Analyst CK RL 0.025 0.025 0.025 0.025	<u>Method</u> 8021B
	Method <u>Blank</u> 0002950-02	Date <u>Prepared</u> Parameter Benzene Ethylbenzene Toluene p/m-Xylene o-Xylene	5 Date <u>Analyzed</u> 8/22/02 11:53	Result Result 1 Result 0.02 <0.02	Dilution <u>Factor</u> 25 t 5 5 5 5 5	Analyst CK RL 0.025 0.025 0.025 0.025 0.025	<u>Method</u> 8021B
	Method <u>Blank</u> 0002950-02	Date <u>Prepared</u> Parameter Benzene Ethylbenzene Toluene p/m-Xylene o-Xylene	5 8021B Date <u>Analyzed</u> 8/22/02 11:53	2/5030 BTEX Sample Amount 1 Resulmg/kg <0.02	Dilution Factor 25 t 5 5 5 5 5	Analyst CK RL 0.025 0.025 0.025 0.025 0.025 0.025	<u>Method</u> 8021B
	Method <u>Blank</u> 0002950-02	Date <u>Prepared</u> Parameter Benzene Ethylbenzene Toluene p/m-Xylene o-Xylene Surrog: aaa-Toluen	5 Bate <u>Analyzed</u> 8/22/02 11:53	2/5030 BTEX Sample Amount 1 Resul mg/kg <0.02	Dilution Factor 25 t 5 5 5 5 5 5 5 5 7 3	Analyst CK RL 0.025 0.025 0.025 0.025 0.025 0.025 0.025	<u>Method</u> 8021B

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 4 of 6

ENVIRONMENTAL LAB OF TEXAS I, LTD.

KEN DUTTON				Order#:		278		
E.T.G.I.			Project:	EOT 2	2096			
2540 WEST MAR	RLAND			Project Name	: Living	ston Ridge to	Hugh P. Sims	
HOBBS, NM 882	240			Location:	Eunic	e, NM	7.7 18.8.4 Million - 7 Mars - 10	
Lab ID:	0204278-05							
Sample ID:	5th S.S. South W	all 3' From Btm.						
				8015M				
	Method Biank	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	_Method_	
			8/21/02	1	1	СК	8015M	
		,						
		Parameter		Result mg/kg		RL		
		GRO, C6-C12		<10.0		10.0		•
		DRO, >C12-C35		<10.0		10.0		
		TOTAL, C6-C35		<10.0		10.0		
		L			,I			
			00710	15020 DTEV				
		-	80216	SUSU BIEA				
	Method	Date	Date	Sample	Dilution	Analyst	Method	
	Blank	rrepared	Analyzeu	Amount	ractor ac	Analyst	- MICHIOU	
	0002950-02	1	0/22/02	1	25	CK	8021B	

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	< 0.025	0.025
p/m-Xylene	< 0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%	
aaa-Toluene	94%	73	115
Bromofluorobenzene	105%	72	110

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 5 of 6

ENVIRONMENTAL LAB OF TEXAS I, LTD.

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON	Order#:	G0204278
E.T.G.I.	Project:	EOT 2096
2540 WEST MARLAND	Project Name:	Livingston Ridge to Hugh P. Sims
HOBBS, NM 88240	Location:	Eunice, NM

Lab ID:

1 1

0204278-06

Sample ID:

6th S.S. West Wall 3' From Btm.

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/21/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	<u>Method</u> 8015M
	Parameter		Resul mg/kg	t	RL	
	GRO, C6-C12		<10.0		10.0	
	DRO, >C12-C35		<10.0		10.0	
	TOTAL, C6-C35		<10.0		10.0	

8021B/5030 BTEX

Method Blank	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0002950-02		8/22/02	1	25	СК	8021B
		12:38				

Parameter	Result mg/kg	RL	
Benzene	<0.025	0.025	
Ethylbenzene	<0.025	0.025	
Toluene	<0.025	0.025	
p/m-Xylene	<0.025	0.025	
o-Xylene	<0.025	0.025	

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	103%	73	115
Bromofluorobenzene	106%	72	110

8-27-02 Approval:

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

Date

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Page 6 of 6
KEN DUTTON E.T.G.I. 2540 WEST M. HOBBS, NM 4	KEN DUTTON E.T.G.I. 2540 WEST MARLAND HOBBS, NM 88240		Order#: GG Project: EC Project Name: Li Location: Eu		G0204278 EOT 2096 Livingston R Eunice, NM	Sims	-	
Lab ID:	0204278-01							
Sample ID:	1st S.S. by Temp. MW Btm.							
Test Paran Parameter	meters	Result	Units	Dilutio Factor	n SRL	Method	Date Analyzed	Analyst
Chloride		<20.0	mg/kg	1	20.0	9253	8/23/02	SB
Lab ID:	0204278-02							
Sample ID:	2nd S.S. Middle West Btm.							
Test Paran Parameter	neters	<u>Result</u>	<u>Units</u>	Dilution <u>Factor</u>	n <u>. RL</u>	Method	Date <u>Analyzed</u>	<u>Analyst</u>
Chloride		<20.0	mg/kg	1	20.0	9253	8/23/02	SB
Lab ID:	0204278-03					<u>.</u>		
Sample ID:	3rd S.S. North Wall 3' From Btm.							
Test Param Parameter	neters	Result	Units	Dilution Factor	ı • RL	Method	Date Analyzed	Analyst
Chloride	· · · · · · · · · · · · · · · · · · ·	<20.0	mg/kg	1	20.0	9253	8/23/02	SB
Lab ID:	0204278-04							
Sample ID:	4th S.S. East Wall 3' From Btm.							
Test Paran	neters			Dilution	1		Date	
<u>Parameter</u>	And water and the second state of the second s	Result	Units	Factor	<u>. RL</u>	Method	Analyzed	Analyst
Chloride		<20.0	mg/kg	1	20.0	9253	8/23/02	SB
Lab ID:	0204278-05				+			
Sample ID:	5th S.S. South Wall 3' From Btm.							
Test Paran Parameter	neters	Result	Units	Dilution <u>Factor</u>	n : <u>RL</u>	Method	Date <u>Analyzed</u>	<u>Analyst</u>
Chloride		<20.0	mg/kg	1	20.0	9253	8/23/02	SB
Lab ID: Sample ID:	0204278-06 6th S.S. West Wall 3' From Btm.							
Test Paran	neters	Decult	Unite	Dilution	n. . pr	Mathad	Date Analyzed	Analvet
<u>Chloride</u>		<20.0	mg/kg	<u>racio</u> 1	20.0	9253	8/23/02	SB

RL = Reporting Limit N/A = Not Applicable

Page 1 of 2

ENVIRONMENTAL LAB OF TEXAS I, LTD.

KEN DUTTON	Order#:	G0204278	
E.T.G.I.	Project:	EOT 2096	•
2540 WEST MARLAND	Project Name:	Livingston Ridge to Hugh P. Sims	
HOBBS, NM 88240	Location:	Eunice, NM	

alande 8-27-02 Approval: Date

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

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Page 2 of 2

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0204278

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BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0002939-02			<10.0		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0002939-03		952	966	101.5%	
CONTROL DUP	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0002939-04		952	1030	108.2%	6.4%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0002939-05	······································	1000	955	95.5%	

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8021B/5030 BTEX

Order#: G0204278

Benzene-mg/kg0002Benzene-mg/kg0002Ethylbenzene-mg/kg0002Ethylbenzene-mg/kg0002Toluene-mg/kg0002Toluene-mg/kg0002p/m-Xylene-mg/kg0002o-Xylene-mg/kg0002o-Xylene-mg/kg0002o-Xylene-mg/kg0002o-Xylene-mg/kg0002o-Xylene-mg/kg0002o-Xylene-mg/kg0002o-Xylene-mg/kg0002cONTROLLABenzene-mg/kg0002Toluene-mg/kg0002o-Xylene-mg/kg0002cONTROL DUPLABenzene-mg/kg0002o-Xylene-mg/kg0002o-Xylene-mg/kg0002o-Xylene-mg/kg0002MSLABenzene-mg/kg0002foluene-mg/kg0022foluene	2933-02 2950-02 2933-02 2950-02 2950-02 2950-02 2950-02 2950-02 2950-02 2950-02 B-ID # 2950-03	Sample Concentr.	Spike	<0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025	Pct (%)	
Benzene-mg/kg 0002 Ethylbenzene-mg/kg 0002 Ethylbenzene-mg/kg 0002 Toluene-mg/kg 0002 P/m-Xylene-mg/kg 0002 p/m-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 CONTROL LA Benzene-mg/kg 0002 CONTROL LA Benzene-mg/kg 0002 Or-Xylene-mg/kg 0002 CONTROL LA Benzene-mg/kg 0002 CONTROL LA Benzene-mg/kg 0002 p/m-Xylene-mg/kg 0002 coxylene-mg/kg 0002 p/m-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 D/m-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 Toluene-mg/kg 0002 Toluene-mg/kg 0002 MS LA Benzene-mg/kg 0002 Toluene-mg/kg 0002 Toluene-mg/kg 0002 p/m-Xylene-mg/kg 0002	2950-02 2933-02 2950-02 2950-02 2950-02 2950-02 2950-02 2950-02 2950-02 B-ID # 2950-03	Sample Concentr.	Spike	<0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025	Pct (%)	
Ethylbenzene-mg/kg0002Ethylbenzene-mg/kg0002Toluene-mg/kg0002Toluene-mg/kg0002p/m-Xylene-mg/kg0002p/m-Xylene-mg/kg0002o-Xylene-mg/kg0002o-Xylene-mg/kg0002cONTROLLABenzene-mg/kg0002Toluene-mg/kg0002Toluene-mg/kg0002CONTROLLABenzene-mg/kg0002Toluene-mg/kg0002Toluene-mg/kg0002p/m-Xylene-mg/kg0002contractLASoilLABenzene-mg/kg0002o-Xylene-mg/kg0002o-Xylene-mg/kg0002MSLASoilLABenzene-mg/kg0002Toluene-mg/kg0002Toluene-mg/kg0002Toluene-mg/kg0002Toluene-mg/kg0002Toluene-mg/kg0002Toluene-mg/kg0002Toluene-mg/kg0002p/m-Xylene-mg/kg0002Toluene-mg/kg0002Toluene-mg/kg0002thylbenzene-mg/kg0002thylbenzene-mg/kg0002thylbenzene-mg/kg0002thylbenzene-mg/kg0002thylbenzene-mg/kg0002thylbenzene-mg/kg0002thylbenzene-mg/kg0002thylbenzene-mg/kg0002thylbenzene-mg/kg0002thylbenzene-mg/kg0002thylbenzene-mg/kg0002 <t< td=""><td>2933-02 2950-02 2933-02 2950-02 2933-02 2950-02 2933-02 2950-02 2950-02 8-1D # 2950-03</td><td>Sample Concentr.</td><td>Spike</td><td><0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 QC Test</td><td>Pct (%)</td><td></td></t<>	2933-02 2950-02 2933-02 2950-02 2933-02 2950-02 2933-02 2950-02 2950-02 8-1D # 2950-03	Sample Concentr.	Spike	<0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 QC Test	Pct (%)	
Ethylbenzene-mg/kg0002Toluene-mg/kg0002Toluene-mg/kg0002p/m-Xylene-mg/kg0002o-Xylene-mg/kg0002o-Xylene-mg/kg0002o-Xylene-mg/kg0002cONTROLLABenzene-mg/kg0002Ethylbenzene-mg/kg0002Toluene-mg/kg0002Ethylbenzene-mg/kg0002p/m-Xylene-mg/kg0002CONTROLLABenzene-mg/kg0002p/m-Xylene-mg/kg0002converseSOILLASOILBenzene-mg/kg0002o-Xylene-mg/kg0002o-Xylene-mg/kg0002o-Xylene-mg/kg0002MSLABenzene-mg/kg0002Toluene-mg/kg0002Toluene-mg/kg0002Toluene-mg/kg0002Toluene-mg/kg0002Toluene-mg/kg0002Toluene-mg/kg0002thylbenzene-mg/kg0002thylbenzene-mg/kg0002thylene-mg/kg0002thylene-mg/kg0002thylene-mg/kg0002thylene-mg/kg0002thylene-mg/kg0002thylene-mg/kg0002thylene-mg/kg0002thylene-mg/kg0002thylene-mg/kg0002thylene-mg/kg0002thylene-mg/kg0002thylene-mg/kg0002thylene-mg/kg0002thylene-mg/kg0002thylene-mg/kg	2950-02 2933-02 2950-02 2933-02 2950-02 2933-02 2950-02 B-ID # 2950-03	Sample Concentr.	Spike	<0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 QC Test	Pct (%)	
Toluene-mg/kg 0002 Toluene-mg/kg 0002 p/m-Xylene-mg/kg 0002 p/m-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 CONTROL LA Benzene-mg/kg 0002 Ethylbenzene-mg/kg 0002 Toluene-mg/kg 0002 o-Xylene-mg/kg 0002 CONTROL LA Benzene-mg/kg 0002 Toluene-mg/kg 0002 o-Xylene-mg/kg 0002 CONTROL DUP LA Benzene-mg/kg 0002 CONTROL DUP LA SOIL LA Benzene-mg/kg 0002 Toluene-mg/kg 0002 Toluene-mg/kg 0002 MS LA Benzene-mg/kg 0002 Toluene-mg/kg 0002 p/m-Xylene-mg/kg 0002 Dym-Xylene-mg/kg 0002 MS LA Benzene-mg/kg 0002 MS	2933-02 2950-02 2933-02 2950-02 2933-02 2950-02 8-ID # 2950-03	Sample Concentr.	Spike	<0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 QC Test	Pct (%)	
Toluene-mg/kg0002p/m-Xylene-mg/kg0002p/m-Xylene-mg/kg0002o-Xylene-mg/kg0002o-Xylene-mg/kg0002cONTROLLABenzene-mg/kg0002Toluene-mg/kg0002p/m-Xylene-mg/kg0002Toluene-mg/kg0002p/m-Xylene-mg/kg0002cONTROL DUPLABenzene-mg/kg0002o-Xylene-mg/kg0002p/m-Xylene-mg/kg0002contractLABenzene-mg/kg0002contractLABenzene-mg/kg0002foluene-mg/kg0002MSLABenzene-mg/kg0002MSLASOILLA	2950-02 2933-02 2950-02 2933-02 2950-02 B-ID # 2950-03	Sample Concentr.	Spike	<0.025 <0.025 <0.025 <0.025 <0.025 QC Test	Pct (%)	
p/m-Xylene-mg/kg 0002 p/m-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 CONTROL LA Benzene-mg/kg 0002 Ethylbenzene-mg/kg 0002 Toluene-mg/kg 0002 p/m-Xylene-mg/kg 0002 p/m-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 p/m-Xylene-mg/kg 0002 cONTROL DUP LA Benzene-mg/kg 0002 CONTROL DUP LA SOIL Benzene-mg/kg 0002 0002 MS 0002 MS LA Benzene-mg/kg 0002 p/m-Xylene-mg/kg 0002 p/m-Xylene-mg/kg 0002 p/m-Xylene-mg/kg 0002 p/m-Xylene-mg/kg 0002 Dill LA Benzene-mg/kg 0002 MS LA Benzene-mg/kg 0204	2933-02 2950-02 2933-02 2950-02 B-ID # 2950-03	Sample Concentr.	Spike	<0.025 <0.025 <0.025 <0.025 QC Test	Pct (%)	
p/m-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 cONTROL LA Benzene-mg/kg 0002 Ethylbenzene-mg/kg 0002 Toluene-mg/kg 0002 p/m-Xylene-mg/kg 0002 p/m-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 p/m-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 Denzene-mg/kg 0002 MS LA Benzene-mg/kg 0002 MS LA Benzene-mg/kg 0002 p/m-Xylene-mg/kg 0002 p/m-Xylene-mg/kg 0002 p/m-Xylene-mg/kg 0002 MS LA Benzene-mg/kg 0204	2950-02 2933-02 2950-02 B-ID # 2950-03	Sample Concentr.	Spike	<0.025 <0.025 <0.025 QC Test	Pct (%)	
o-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 cONTROL SOIL Benzene-mg/kg 0002 Ethylbenzene-mg/kg 0002 Toluene-mg/kg 0002 p/m-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 Dym-Xylene-mg/kg 0002 cONTROL DUP LA Benzene-mg/kg 0002 contract DUP LA SOIL LA Benzene-mg/kg 0002 Toluene-mg/kg 0002 MS LA Benzene-mg/kg 0002 MS LA	2933-02 2950-02 B-ID # 2950-03	Sample Concentr.	Spike	<0.025 <0.025 QC Test	Pct (%)	P ~ ~
o-Xylene-mg/kg 0002 CONTROL LA Benzene-mg/kg 0002 Ethylbenzene-mg/kg 0002 Toluene-mg/kg 0002 p/m-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 Down Troluene-mg/kg 0002 o-Xylene-mg/kg 0002 Down Troluene-mg/kg 0002 Ethylbenzene-mg/kg 0002 Toluene-mg/kg 0002 Toluene-mg/kg 0002 Toluene-mg/kg 0002 MS LA Benzene-mg/kg 0002 MS LA	2950-02 B-ID # 2950-03	Sample Concentr.	Spike	<0.025 QC Test	Pct (%)	
CONTROL SOILLABenzene-mg/kg0002Ethylbenzene-mg/kg0002Toluene-mg/kg0002p/m-Xylene-mg/kg0002o-Xylene-mg/kg0002CONTROL DUP SOILLABenzene-mg/kg0002Ethylbenzene-mg/kg0002Diuene-mg/kg0002CONTROL DUP SOILLABenzene-mg/kg0002Toluene-mg/kg0002MSLABenzene-mg/kg0002MSLABenzene-mg/kg0204	B-ID # 2950-03	Sample Concentr.	Spike Concentr	QC Test	Pct (%)	
Benzene-mg/kg 0002 Ethylbenzene-mg/kg 0002 Toluene-mg/kg 0002 p/m-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 <i>CONTROL DUP</i> LA Benzene-mg/kg 0002 Ethylbenzene-mg/kg 0002 Toluene-mg/kg 0002 MS LA Benzene-mg/kg 0002 Double Double Double Double Benzene-mg/kg 0002 Toluene-mg/kg 0002 Double Double p/m-Xylene-mg/kg 0002 Double LA SOIL LA	2950-03		Concentra.	Result	Recovery	KPD
Ethylbenzene-mg/kg0002Toluene-mg/kg0002p/m-Xylene-mg/kg0002o-Xylene-mg/kg0002CONTROL DUP SOILLABenzene-mg/kg0002Ethylbenzene-mg/kg0002Toluene-mg/kg0002p/m-Xylene-mg/kg0002p/m-Xylene-mg/kg0002p/m-Xylene-mg/kg0002MSLABenzene-mg/kg0002	000 00		0.1	0.111	111.%	
Toluene-mg/kg 0002 p/m-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 CONTROL DUP LA Benzene-mg/kg 0002 Ethylbenzene-mg/kg 0002 Toluene-mg/kg 0002 Toluene-mg/kg 0002 mr.Xylene-mg/kg 0002 MS LA Benzene-mg/kg 0002 MS LA Benzene-mg/kg 0002	2930-03		0.1	0.107	107.%	
p/m-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 CONTROL DUP SOIL LA Benzene-mg/kg 0002 Ethylbenzene-mg/kg 0002 Toluene-mg/kg 0002 p/m-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 MS LA Benzene-mg/kg 0002	2950-03	·····	0.1	0.107	107.%	· · · · · · · · · · · · · · · · · · ·
o-Xylene-mg/kg 0002 CONTROL DUP SOIL LA Benzene-mg/kg 0002 Ethylbenzene-mg/kg 0002 Toluene-mg/kg 0002 p/m-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 MS LA Benzene-mg/kg 0002	2950-03		0.2	0.217	108.5%	
CONTROL DUP SOIL LA Benzene-mg/kg 0002 Ethylbenzene-mg/kg 0002 Toluene-mg/kg 0002 p/m-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 MS LA Benzene-mg/kg 0204	2950-03		0.1	0.109	109.%	
Benzene-mg/kg 0002 Ethylbenzene-mg/kg 0002 Toluene-mg/kg 0002 p/m-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 MS LA Benzene-mg/kg 0204	B-1D #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Ethylbenzene-mg/kg 0002 Toluene-mg/kg 0002 p/m-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 MS LA Benzene-mg/kg 0204 Ttylibergergerg/kg 0204	2950-04		0.1	0.109	109.%	1.8%
Toluene-mg/kg 0002 p/m-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 MS LA Benzene-mg/kg 0204 Table for the second for the	2950-04	· · · · · · · · · · · · · · · · · · ·	0.1	0.105	105.%	1.9%
p/m-Xylene-mg/kg 0002 o-Xylene-mg/kg 0002 MS SOIL LA Benzene-mg/kg 0204	2950-04		0.1	0.106	106.%	0.9%
o-Xylene-mg/kg 0002 MS SOIL LA Benzene-mg/kg 0204 Ethylkeremenetter 0000	2950-04		0.2	0.216	108.%	0.5%
MS SOIL LA Benzene-mg/kg 0204	2950-04		0.1	0.111	111.%	1.8%
Benzene-mg/kg 0204	B-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	1278-02	0	0.1	0.112	112.%	
Ethylbenzene-mg/kg 0204	1278-02	0	0.1	0.111	111.%	
Toluene-mg/kg 0204	1278-02	0	0.1	0.113	113.%	
p/m-Xylene-mg/kg 0204	4278-02	0	0.2	0.230	115.%	
o-Xylene-mg/kg 0204	1278-02	0	0.1	0.110	110.%	
MSD SOIL LA	B-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg 0204	4278-02	0	0.1	0.111	111.%	0.9%
Ethylbenzene-mg/kg 0204	4278-02	0	0.1	0.112	112.%	0.9%
Toluene-mg/kg 0204	4278-02	0	0.1	0.114	114.%	0.9%
p/m-Xylene-mg/kg 0204	4278-02	0	0.2	0.225	112.5%	2.2%
o-Xylene-mg/kg 0204	4278-02	0	0.1	0.113	113.%	2.7%
SRM SOIL LA	B-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg 0002	2933-05	·····	0.1	0.112	112.%	

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SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD -
Benzene-mg/kg		0002950-05		0.1	0.115	115.%	···· <u>·</u> <u>,</u>
Ethylbenzene-mg/kg		0002933-05		0.1	0.110	110.%	
Ethylbenzene-mg/kg		0002950-05		0.1	0.110	110.%	
Toluene-mg/kg		0002933-05		0.1	0.112	112.%	
Toluene-mg/kg	·····	0002950-05		0.1	0.114	114.%	
p/m-Xylene-mg/kg		0002933-05		0.2	0.228	114.%	
p/m-Xylene-mg/kg		0002950-05		0.2	0.229	114.5%	····
o-Xylene-mg/kg		0002933-05		0.1	0.110	110.%	······································
o-Xylene-mg/kg		0002950-05		0.1	0.114	114.%	

11

Test Parameters

Order#: G0204278

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0002959-01			<20.0		·····
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204278-03	0	1000	1030	103.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204278-03	0	1000	1050	105.%	1.9%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0002959-04		5000	4963	99.3%	•

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C O C - 13/ ISTODY RECORD AND ANALYSIS REQUEST I Name: Livingston Ridoc To Huch P. Sins	roject #: EDT 2096	ect Loc: Eunice N.M.	PO#:		Analyze For:	TOTAL	Ĵ.	Calions (Ca. Mg. Va. K) Anions (Cl. SOA, CO3, HCO3) SARY ESP / CEC Metals: As Ag Ba Cd Cr Pb Hg S BTEX (021P 5030 3CI 3CI 3CI 3CI 3CI 3CI 3CI 3CI 3CI 3CI								Sample Containers Intact? Y N Temperature Upon Receipt:	e Re 300	
CHAIN OF CUS	Pro	Projec		Fax No: <u>505 - 39 7 - 4 7ゆ1</u>			Preservative Matrix o	Time Sampled No. of Containets HyO. Other (Specity) Other (Specity) Other (Specity) Other (Specity) Other (Specity) Other (Specity) Other (Specity) Other (Specity)	0825 1 X X X	Ø83Ø	Ø \$35	\$24\$ \$	Ø845	6850 VVV			Date Time	$\frac{\text{OT:}}{n \mathcal{N} \mathcal{L} \mathcal{M}} = \frac{\text{Date}}{\delta^2 - 2 \alpha^2 2} \frac{\text{Time}}{2 377}$
Nironmental Lab of Texas I, Ltd. 10 West 1-20 East Phone: 915-563-1800 5sa, Texas 79763 Fax: 915-563-1713 Project Manager: Nuttout	Company Name E. T. G. T.	Company Address: 2540 W. Marland	city/state/Zip: Hobbs, N.M. 88240	Telephone No: 505-397-4882 Sampler Signature: Martuelo Cum, Dor L.				Date Sampled	01 1 st 5.5. by teme me Bt 8-20-02	02 2nd SS. middle West 87m	03 3rd S.S. North Wall 3' for Bith -	OH 4th S.S. East Wall 3' for 8th	05 5th S.S. South Wall 3'for Br	de 6th S.S. West Wall 3'fen Str. V		ecial Instructions:	mquished by Date Time Received by Received by Received by	inquished by Date Time Received by EL

ANALYTICAL REPORT

Prepared for:

Ken Dutton Environmental Technology Group, Inc. 2540 W. Marland Hobbs, NM 88242

Project: Livingston Ridge To Hugh P. Sims

PO#:

Order#: G0204400

Report Date: 09/04/2002

<u>Certificates</u> US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc. 2540 W. Marland Hobbs, NM 88242 505-397-4701 Order#:G0204400Project:EOT 2096Project Name:Livingston Ridge To Hugh P. SimsLocation:Eunice, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

				Date / Tin	ne l	Date / Time		
<u>Lab ID:</u>	Sample :	<u>Matrix:</u>	<u> </u>	Collected	<u> </u>	Received	Container	Preservative
0204400-01	Land Farm Quad 1	SOIL		8/29/02 9:30		8/29/02 13:50	4 oz glass	Ice
<u>La</u>	<u>ıb Testing:</u>	Rejected:	No		Temp:	4.0 C		
	8015M							
	8021B/5030 BTEX						•	
	Chloride			· • • • • • • • • • • • • • • • • • • •				
0204400-02	Land Farm Quad 2	SOIL		8/29/02 9:35		8/29/02 13:50	4 oz glass	Ice
<u>La</u>	<u>ıb Testing:</u>	Rejected:	No		Temp:	4.0 C		
	8015M							
	8021B/5030 BTEX							
	Chloride							
0204400-03	Land Farm Quad 3	SOIL		8/29/02 9:40		8/29/02 13:50	4 oz giass	Ice
<u> </u>	<u>ıb Testing:</u>	Rejected:	No		Temp	4.0 C		
_	8015M							
	8021B/5030 BTEX							
	Chloride			· · · · · · · · · · · · · · · · · · ·				and the second sec
)204400-04	Land Farm Quad 4	SOIL		8/29/02 9:45		8/29/02 13:50	4 oz glass t	Ice
– <u>La</u>	ib Testing:	Rejected:	No		Temp	4.0 C		
	8015M							
	8021B/5030 BTEX							
	Chloride	.,						
)204400-05	N. Stockpile N. Side	SOIL		8/29/02 10:10		8/29/02 13:50	4 oz glass	Ice
<u>La</u>	<u>ub Testing:</u>	Rejected:	No		Temp	: 4.0 C		
	8015M							
	8021B/5030 BTEX							
— ———————————————————————————————————	Chloride			·····				
D204400-06	N. Stockpile W. Side	SOIL		8/29/02 10:05		8/29/02 13:50	4 oz glass	Ice
	ab Testing:	Rejected:	No		Temp	: 4.0 C		
	8015M							
	· · · · · · · · · · · · · · · · · · ·							

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ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc. 2540 W. Marland Hobbs, NM 88242 505-397-4701 Order#:G0204400Project:EOT 2096Project Name:Livingston Ridge To Hugh P. SimsLocation:Eunice, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u> 8021B/5030 BTEX Chloride	<u>Matrix:</u>	Date / Time <u>Collected</u>	Date / Time <u>Received</u>	Container	Preservative
0204400-07	N. Stockpile S.W. Side	SOIL	8/29/02 10:00	8/29/02 13:50	4 oz glass	Ice
<u>L</u>	<u>ab Testing:</u> 8015M 8021B/5030 BTEX Chloride	Rejected: No	Ter	np: 4.0 C		
0204400-08	N. Stockpile S.E. Side	SOIL	8/29/02 10:15	8/29/02 13:50	4 oz glass	Ice
<u>La</u>	<u>ub Testing:</u> 8015M 8021B/5030 BTEX Chloride	Rejected: No	Ter	np: 4.0 C		

Ken Dutton	Order#:	G0204400	
Environmental Technology Group, Inc.	Project:	EOT 2096 -	
2540 W. Marland	Project Name:	Livingston Ridge To Hugh P. Sims	
Hobbs, NM 88242	Location:	Eunice, NM	

Lab ID: Sample ID: 0204400-01

Land Farm Quad 1

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/30/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	<u>Method</u> 8015M
	Parameter		Result mg/kg		RL	
	GRO, C6-C12		54.2		10.0	
	DRO, >C12-C35		1,800		10.0	
	TOTAL, C6-C35		1,854		10.0	

8021B/5030 BTEX

Method Blank	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0003022-02		9/1/02 0:16	1	25	СК	8021B

Parameter	Result mg/kg	
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	0.091	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Li	mits (%)
aaa-Toluene	96%	80	120
Bromofluorobenzene	107%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

Ken Dutton	Order#:	G0204400
Environmental Technology Group, Inc.	Project:	EOT 2096
2540 W. Marland	Project Name:	Livingston Ridge To Hugh P. Sims
Hobbs, NM 88242	Location:	Eunice, NM
	····.	

Lab ID:

0204400-02

Sample ID:

Land Farm Quad 2

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/30/02	Sample <u>Amount</u> I	Dilution <u>Factor</u> 5	<u>Analyst</u> CK	<u>Method</u> 8015M
	Parameter		Resu mg/k	lt	RL	
	GRO, C6-C12		164		50.0	
	DRO, >C12-C35		4600)	50.0	
	TOTAL, C6-C35	- ,	4764	4	50.0	

8021B/5030 BTEX

Method Blank	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0003022-02		9/1/02 0:37	1	25	СК	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	0.032	0.025
Toluene	0.025	0.025
p/m-Xylene	0.212	0.025
o-Xylene	0.086	0.025

Surrogates	% Recovered	QC Limits (%	
aaa-Toluene	101%	80	120
Bromofluorobenzene	111%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 2 of 8

Ken Dutton	Order#:	G0204400	
Environmental Technology Group, Inc.	Project:	EOT 2096	-
2540 W. Marland	Project Name:	Livingston Ridge To Hugh P. Sims	
Hobbs, NM 88242	Location:	Eunice, NM	
	to the data in the second		

Lab ID: Sample ID:

0204400-03

Land Farm Quad 3

DRO, >C12-C35

TOTAL, C6-C35

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/30/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 5	<u>Analyst</u> CK	Method 8015M
	Parameter		Resu mg/k	lt g	RL	
	GRO, C6-C12		283	3	50.0	

8021B/5030 BTEX

4850

5133

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	<u>Analyst</u>	Method
0003022-02		9/1/02	1	25	СК	8021B
		1:00				

Parameter	Result mg/kg	RL
Benzene	< 0.025	0.025
Ethylbenzene	0.037	0.025
Toluene	0.026	0.025
p/m-Xylene	0.454	0.025
o-Xylene	0.198	0.025

Surrogates	% Recovered	QC Li	mits (%)
aaa-Toluene	80%	80	120
Bromofluorobenzene	93%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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50.0

50.0

EOT 2096
Livingston Ridge To Hugh P. Sims
Eunice, NM

0204400-04

Sample ID:

Land Farm Quad 4

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/30/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	<u>Method</u> 8015M
	Parameter		Resul	t	RL	
	GRO, C6-C12		<10.0		10.0	
	DRO, >C12-C35		198		10.0	
	TOTAL, C6-C35		198		10.0	

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	<u>Analyst</u>	Method
0003022-02		9/1/02 1:21	1	25	СК	8021B

Parameter	Result mg/kg	RL .
Benzene	<0.025	0.025
Ethylbenzene	< 0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	0.097	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)
aaa-Toluene	104%	80 1 120
Bromofluorobenzene	117%	80 120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 4 of 8

ENVIRONMENTAL LAB OF TEXAS I, LTD.

Ken Dutton Environmental T 2540 W. Marland Hobbs, NM 8824	fechnology Group, Ind 1 42	c.		Order#: Project: Project Name Location:	G020 EOT e: Livin Eunic	4400 2096 gston Ridge To e, NM	o Hugh P. Sims	
Lab ID: Sample ID:	0204400-05 N. Stockpile N. Si	ide						
				8015M				
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/30/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	Method 8015M	
			0/00/02	. • .	•	CR ·	0015/01	
		Parameter		Result mg/kg	t	RL		
		GRO, C6-C12		<10.0		10.0		
		DRO, >C12-C35	<u> </u>	<10.0		10.0	·· .	
		b				10.0		
	Method	TOTAL, C6-C35	8021B Date	<10.0 8/5030 BTEX Sample	Dilution	10.0		
	Method <u>Blank</u> 0003022-02	TOTAL, C6-C35 Date <u>Prepared</u>	8021 B Date <u>Analyzed</u> 9/1/02 1:44	<10.0 8/5030 BTEX Sample <u>Amount</u> 1	Dilution <u>Factor</u> 25	<u>Analyst</u> CK	Method 8021B	
	Method <u>Blank</u> 0003022-02	Date <u>Prepared</u> Parameter	8021B Date <u>Analyzed</u> 9/1/02 1:44	<10.0 S/5030 BTEX Sample <u>Amount</u> 1 Result mg/kg	Dilution <u>Factor</u> 25	Analyst CK RL	Method 8021B	
	Method <u>Blank</u> 0003022-02	Date <u>Prepared</u> Parameter Benzene	8021E Date <u>Analyzed</u> 9/1/02 1:44	<10.0 S/5030 BTEX Sample <u>Amount</u> 1 Result mg/kg <0.025	Dilution Factor 25	Analyst CK RL 0.025	<u>Method</u> 8021B	•
	Method <u>Blank</u> 0003022-02	Date Prepared Parameter Benzene Ethylbenzene	8021E Date <u>Analyzed</u> 9/1/02 1:44	<10.0 8/5030 BTEX Sample <u>Amount</u> 1 Result mg/kg <0.025 <0.025	Dilution Factor 25	Analyst CK RL 0.025 0.025	<u>Method</u> 8021B	•
	Method <u>Blank</u> 0003022-02	Date Prepared Parameter Benzene Ethylbenzene Toluene	8021B Date <u>Analyzed</u> 9/1/02 1:44	<10.0 8/5030 BTEX Sample <u>Amount</u> 1 Result mg/kg <0.025 <0.025 <0.025	Dilution Factor 25	Analyst CK RL 0.025 0.025 0.025	<u>Method</u> 8021B	•
	Method <u>Blank</u> 0003022-02	Date Prepared Parameter Benzene Ethylbenzene Toluene p/m-Xylene	8021E Date <u>Analyzed</u> 9/1/02 1:44	<10.0 S/5030 BTEX Sample <u>Amount</u> 1 Result mg/kg <0.025 <0.025 <0.025 <0.025	Dilution Factor 25	Analyst CK RL 0.025 0.025 0.025 0.025	Method 8021B	•
	Method <u>Blank</u> 0003022-02	Date Prepared Parameter Benzene Ethylbenzene Toluene p/m-Xylene o-Xylene	8021B Date <u>Analyzed</u> 9/1/02 1:44	<10.0 8/5030 BTEX Sample <u>Amount</u> 1 Result mg/kg <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0	Dilution Factor 25	Analyst CK RL 0.025 0.025 0.025 0.025 0.025	<u>Method</u> 8021B	•
	Method <u>Blank</u> 0003022-02	Date Prepared Parameter Benzene Ethylbenzene Toluene p/m-Xylene o-Xylene Surrogat	8021B Date <u>Analyzed</u> 9/1/02 1:44	<10.0 8/5030 BTEX Sample <u>Amount</u> 1 Result mg/kg <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025	Dilution Factor 25	Analyst CK RL 0.025 0.025 0.025 0.025 0.025 0.025	<u>Method</u> 8021B	•
	Method <u>Blank</u> 0003022-02	Date Prepared Parameter Benzene Ethylbenzene Toluene p/m-Xylene o-Xylene Surrogat aaa-Toluene	8021E Date <u>Analyzed</u> 9/1/02 1:44	<10.0 8/5030 BTEX Sample <u>Amount</u> 1 1 Result mg/kg <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025	Dilution Factor 25	Analyst CK RL 0.025 0.025 0.025 0.025 0.025 0.025 0.025	<u>Method</u> 8021B	•

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 5 of 8

ENVIRONMENTAL LAB OF TEXAS I, LTD.

Order#:

G0204400

1

СК

8015M

Ken Dutton

Environmental Technology Group, Inc. 2540 W. Marland Hobbs, NM 88242				Project: Project Name: Location:	EOT 2 Livings Eunice	096 ston Ridge To , NM) Hugh P. Sims
Lab ID: Sample ID:	0204400-06 N. Stocknile W. Side						
Sample 10.	W. Stockpile W. Blue			8015M			
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample I Amount	Dilution <u>Factor</u>	<u>Analyst</u>	Method

8/30/02

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

1

8021B/5030 BTEX

Method Blank	Date Prepared	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0003022-02		9/1/02 2:06	1	25	СК	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Li	mits (%)
aaa-Toluene	99%	80	120
Bromofluorobenzene	113%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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Page 6 of 8

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ken Dutton Environmental Technology Group, Inc. 2540 W. Marland Hobbs, NM 88242 Lab ID: 0204400-07				Order#: Project: Project Name Location:	Order#: G0204400 Project: EOT 2096 Project Name: Livingston Ridge T Location: Eunice, NM) Hugh P. Sims
Lab ID:	0204400-07						
Sample ID:	N. Stockpile S.W	. Side					
				8015M			
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
			8/30/02	1	1	СК	8015M
		Parameter GRO, C6-C12 DRO, >C12-C35 TOTAL, C6-C35		Result mg/kg <10.0 <10.0 <10.0		RL 10.0 10.0 10.0	
			8021B	2/5030 BTEX			
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	<u>Analyst</u>	Method
	0003022-02	2	9/1/02 2:28	1	25	СК	8021B
		Parameter		Result mg/kg		RL	
		Benzene		<0.025		0.025	
		Ethylbenzene		< 0.025		0.025	

<0.025	0.025
<0.025	0.025
<0.025	0.025
<0.025	0.025
	<pre><0.025 <0.025 <0.025 <0.025</pre>

Surrogates	% Recovered	QC Li	mits (%)
aaa-Toluene	104%	80	120
Bromofluorobenzene	120%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

G0204400 EOT 2096

Eunice, NM

Livingston Ridge To Hugh P. Sims

Ken Dutton	Order#:
Environmental Technology Group, Inc.	Project:
2540 W. Marland	Project Name:
Hobbs, NM 88242	Location:

Hobbs, NM 88242

Lab ID:

0204400-08

Sample ID:

N. Stockpile S.E. Side

			8015M			
Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/30/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	<u>Method</u> 8015M
	Parameter	·····	Result mg/kg	t	RL	
	GRO, C6-C12	·····	<10.0		10.0	1
	DRO, >C12-C35		<10.0		10.0	I
	TOTAL, C6-C35		<10.0		10.0	

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0003022-02		9/1/02	1	25	СК	8021B
		9:08				

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Li	mits (%)
aaa-Toluene	116%	80	120
Bromofluorobenzene	124%	80	120

15/02 lin Approval:

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inord Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

Date

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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Page 8 of 8

Ken Dutton Environmental 2540 W. Maria Hobbs, NM 88	Technology Group, Inc. nd 8242		Order# Project Project Locatio	f: t: t Name: on:	G0204400 EOT 2096 Livingston R Eunice, NM	idge To Hugh P.	. Sims	-
Lab ID:	0204400-01							
Sample ID:	Land Farm Quad 1							
Test Paran	meters			Dilutio	n		Date	
Parameter		Result	Units	<u>Factor</u>	<u></u>	Method	Analyzed	<u>Analyst</u>
Chloride		47.2	mg/kg	1	20	9253	9/4/02	SB
Lab ID:	0204400-02							
Sample ID:	Land Farm Quad 2							
Test Paran	meters			Dilutio	n		Date	
Parameter	······································	Result	<u>Units</u>	Factor	<u>: RL</u>	Method	Analyzed	<u>Analyst</u>
Chloride		94.5	mg/kg	1	20	9253	9/4/02	SB
Lab ID:	0204400-03							
Sample ID:	Land Farm Quad 3							
Test Paran	neters			Dilutio	n		Date	
Parameter		Result	Units	Factor	<u>. RL</u>	Method	Analyzed	<u>Analyst</u>
Chloride		80.0	mg/kg	1	20	9253	9/4/02	SB
Lab ID:	0204400-04							
Sample ID:	Land Farm Quad 4							
Test Parar	meters			Dilutio	n		Date	
Parameter		Result	Units	Factor	<u>r RL</u>	Method	Analyzed	<u>Analyst</u>
Chloride		23.6	mg/kg	1	20	9253	9/4/02	SB
Lab ID:	0204400-05							
Sample ID:	N. Stockpile N. Side				t			
Test Paran	meters	Result	Units	Dilutio Factor	n r RL	Method	Date Analyzed	Analyst
Chloride		23.6	mg/kg	1	20	9253	9/4/02	SB
Lab ID:	0204400-06		,	<u>.</u>	· · · · · · · · · · · · · · · · · · ·			
Sample ID:	N. Stockpile W. Side							
Test Parai	meters			Dilutio	n		Date	
Parameter		Result	<u>Units</u>	Facto	r <u>RL</u>	Method	Analyzed	<u>Analyst</u>
Chloride		23.6	mg/kg	1	20	9253	9/4/02	28

RL = Reporting Limit N/A = Not Applicable

Page 1 of 2

ENVIRONMENTAL LAB OF TEXAS I, LTD.

Ken Dutton Environmental Technology Group, Inc. 2540 W. Marland Hobbs, NM 88242			Order Project Project Locatio	#: t: t Name: on:	G0204400 EOT 2096 Livingston R Eunice, NM	idge To Hugh P	. Sims	-
Lab ID:	0204400-07	•						
Sample ID:	N. Stockpile S.W. Side							
Test Parar	neters			Diluti	on		Date	
<u>Parameter</u>	· · · · · · · · · · · · · · · · · · ·	Result	<u>Units</u>	<u>Facto</u>	or <u>RL</u>	Method	Analyzed	<u>Analyst</u>
Chloride		23.6	mg/kg	1	20	9253	9/4/02	SB
Lab ID:	0204400-08						·····	<u> </u>
Sample ID:	N. Stockpile S.E. Side							
Test Parar	neters			Diluti	n		Date	
<u>Parameter</u>		<u>Result</u>	Units	Facto	or <u>RL</u>	Method	Analyzed	<u>Analyst</u>
Chloride		23.6	mg/kg	1	20	9253	9/4/02 /	SB
				Approv	val:	h. D.	Keine	7/5/02

Approval: <u>U.M.</u> Additional Approval: <u>Approval</u> Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

RL = Reporting Limit N/A = Not Applicable

Page 2 of 2

Date

8015M

Order#: G0204400

111

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003018-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	·····	0204400-04	198	952	1124	97.3%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0204400-04	198	952	1144	99.4%	1.8%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003018-05		1000	1030	103.%	

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ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT 8021B/5030 BTEX or

			8021B/5030	O BTEX		Order#: G0204400		
BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD	
Benzene-mg/kg		0003022-02			<0.025		•••••••••••	
Ethylbenzene-mg/kg		0003022-02			<0.025			
Toluene-mg/kg		0003022-02			<0.025			
p/m-Xylene-mg/kg		0003022-02		······································	<0.025		<u> </u>	
o-Xylene-mg/kg		0003022-02			<0.025	1		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD	
Benzene-mg/kg		0204388-07	0	0.1	0.089	89.%	·····	
Ethylbenzene-mg/kg		0204388-07	0	0.1	0.090	90.%		
Toluene-mg/kg	· · · · · · · · · · · · · · · · · · ·	0204388-07	0	0.1	0.091	91.%		
p/m-Xylene-mg/kg	·····	0204388-07	0	0.2	0.188	94.%	·····	
o-Xylene-mg/kg	*******	0204388-07	0	0.1	0.091	91.%		
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD	
Benzene-mg/kg		0204388-07	0	0.1	0.094	94.%	5.5%	
Ethylbenzene-mg/kg		0204388-07	0	0.1	0.095	95.%	5.4%	
Toluene-mg/kg	u	0204388-07	0	0.1	0.097	97.%	6.4%	
p/m-Xylene-mg/kg		0204388-07	0	0.2	0.198	99.%	5.2%	
o-Xylene-mg/kg		0204388-07	0	0.1	0.095	95.%	4.3%	
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD	
Benzene-mg/kg		0003022-05		0.1	0.096	96.%		
Ethylbenzene-mg/kg	·····	0003022-05	······································	0.1	0.097	97.%		
Toluene-mg/kg		0003022-05		0.1	0.098	98.%		
p/m-Xylene-mg/kg		0003022-05		0.2	0.201	100.5%		
o-Xylene-mg/kg		0003022-05		0.1	0.097	97.%	· · · · ·	
						and an		

Test Parameters

Order#: G0204400

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003049-01			<20.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204401-01	94.5	667	756	99.2%	·····
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204401-01	94.5	667	744	97.4%	1.6%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003049-04		5000	4960	99.2%	

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ANALYTICAL REPORT

Prepared for:

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> Robert Eidson Environmental Technology Group, Inc. 2540 West Marland Hobbs, NM 88242

Project:Livingston Rider to Hugh P. SimsPO#:G0204836

Report Date: 10/29/2002

<u>Certificates</u> US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc. 2540 West Marland Hobbs, NM 88242 505-394-4701 Order#:G0204836Project:EO2096Project Name:Livingston Rider to Hugh P. SimsLocation:N.E. of Eunice, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

				Date / Time	Ē	Date / Time		
<u>Lab ID:</u>	<u>Sample :</u>	Matrix:		Collected	. <u> </u>	Received	Container	Preservative
0204836-01	MW-11 (35')	SOIL		10/11/02		10/23/02	4 oz Glass	Ice
				12:30		15:50		
<u>La</u>	<u>ıb Testing:</u>	Rejected:	No	Т	emp:	7 C		
	8015M							
	8021B/5030 BTEX						·	
0204836-02	MW-11 (40')	SOIL		10/11/02		10/23/02	4 oz Glass	Ice
				12:53		15:50		
<u>La</u>	<u>ib Testing:</u>	Rejected:	No	Т	emp:	7 C		
	8015M							
	8021B/5030 BTEX					····		
0204836-03	MW-12 (20')	SOIL		10/14/02		10/23/02	4 oz Glass	Ice
0204030-03				13:56		15:50		
La	<u>ıb Testing:</u>	Rejected:	No	т	emp:	7 C		
	8015M							
	8021B/5030 BTEX							
0204836-04	MW-12 (32')	SOIL		10/14/02		10/23/02	4 oz Glass	lce
				14:41		15:50		
<u>La</u>	ib Testing:	Rejected:	No	Т	emp:	7 C		
	8015M							
	8021B/5030 BTEX						1	
0204836-05	MW-13 (20')	SOIL		10/15/02		10/23/02	4 oz Glass	Ice
				10:37		15:50		
<u>La</u>	ib Testing:	Rejected:	No	Т	emp:	7 C		
	8015M							
	8021B/5030 BTEX							
0204836-06	MW-13 (40')	SOIL		10/15/02		10/23/02	4 oz Glass	Ice
				11:49		15:50		
<u>La</u>	<u>ıb Testing:</u>	Rejected:	No	т	emp:	7 C		
	8015M							
	8021B/5030 BTEX							
0204836-07	MW-14 (30')	SOIL		10/16/02		10/23/02	4 oz Glass	Ice
				9:44		15:50		
<u>La</u>	ab Testing:	Rejected:	No	т	emp:	7 C		

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ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

Environmental Technology Group, Inc. 2540 West Marland Hobbs, NM 88242 505-394-4701 Order#:G0204836Project:EO2096Project Name:Livingston Rider to Hugh P. SimsLocation:N.E. of Eunice, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID:	<u>Sample :</u> 8015M	<u>Matrix:</u>		Date / Time Collected	Date / Time <u>Received</u>	Container	Preservative
	8021B/3030 BTEX						
204836-08	MW-14 (40')	SOIL		10/16/02 10:26	10/23/02 15:50	4 oz Glass	Ice
	ib Testing:	Rejected:	No	Tem	ip: 7 C		
 	8015M 8021B/5030 BTEX						
)204836-09	MW-15 (20')	SOIL		10/16/02 15:00	10/23/02 15:50	4 oz Glass	Ice
	ib Testing:	Rejected:	No	Tem	np: 7 C		
	8015M 8021B/5030 BTEX						
0204836-10	MW-15 (45')	SOIL		10/16/02 16:10	10/23/02 15:50	4 oz Glass	Ice
	ib Testing:	Rejected:	No	Tem	np: 7 C		
	8015M 8021B/5030 BTEX						

Robert Eidson Environmental 7 2540 West Mari Hobbs, NM 882	Fechnology Group, In and 242	c.			Order#: Project: Project Nam Location:	G0 EO e: Li [,] N.E	204836 2096 vingston R E. of Eunic	ider to e, NM	Hugh P. Sims
Lab ID:	0204836-01								
Sample ID.	MW-11 (55)			0.014	- 1 /				
	NJ-4h-J	Data	Data	8013		D 11			
	Blank	Prepared	Analyzed	A	mount	Facto	n r Ana	lyst	Method
	***********		10/25/02	_	1	1	C	ĸ	8015M
		Parameter			Resul	t	RL		
		GRO, C6-C12			<10.0		10.0		
		DRO, >C12-C35	;		<10.0		10.0		
		TOTAL, C6-C3	5		<10.0		10.0		
		Surrog	ates	%	Recovered	QC Li	mits (%)		
		1-Chlorooc	tane		94%	70	130		
		1-Chlorooc	tadecane		98%	70	130		
			8021B	3/503	O BTEX				
	Method	Date	Date	S	ample	Dilutio	on .	• •	
	<u>Blank</u> 0003528-02	Prepared	<u>Analyzed</u> 10/24/02 15:56	A	1	<u>Factor</u> 25	<u>r Ana</u> C	K	8021B
		Parameter			Resul mg/kg	t	RL		
		Benzene			< 0.025	5	0.025		
		Ethylbenzene			< 0.025	5	0.025		
		Toluene			< 0.025	5	0.025		
		p/m-Xylene			< 0.025	5	0.025		
		o-Xylene	,		<0.025)	+]	
		Surrog	ates	%	Recovered	OC II	mits (%)		
		aaa-Toluer			82%	80	120		
		Bromofluor	obenzene		89%	80	120		

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 10

ENVIRONMENTAL LAB OF TEXAS I, LTD.

Robert Eidson Environmental Tec 2540 West Marland Hobbs, NM 88242	hnology Group, In I	c.			G E e: L N.	0204836 02096 ivingston Rider E. of Eunice, NN	to Hugh P. Sims 1
Lab ID: Sample ID:	0204836-02 MW-11 (40')						
				8015M			
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 10/25/02	Sample <u>Amount</u> 1	Diluti <u>Facto</u> I	on <u>or Analyst</u> CK	Method 8015M
		Parameter	,	Resul mg/kg	t s	RL	
		GRO, C6-C12		<10.0)	10.0]
		DRO, >C12-C35	5	30.3	Ī	10.0	
		TOTAL, C6-C3	5	30.3		10.0	
		Surrog	ates	% Recovered	QC L	imits (%)	
		1-Chlorooc	tane	85%	70	130	
		1-Chlorooc	tadecane	88%	70	130	
			80211	3/5030 BTEX	-		
	Method	Date	Date	Sample	Diluti	on	
	Blank	Prepared	Analyzed	Amount	Facto	or <u>Analyst</u>	Method
	0003528-02		10/24/02 16:18	I	25	СК	8021B
		Parameter		Resul mg/kg	t ;	RL,	
		Benzene	· · · · · · · · · · · · · · · · · · ·	<0.02	5	0.025	-
		Ethylbenzene		<0.02	5	0.025]
		Toluene		<0.02	5	0.025]
		p/m-Xylene		<0.02	5	0.025	
		o-Xylene		<0.02	5	0.025]
		Surrog	ates	% Recovered	OC I	imits (%)	
		aaa-Toluer	ne	84%	80	120	
		Bromofluo	robenzene	86%	80	120	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

Robert Eidson Environmental T 2540 West Maria Hobbs, NM 882	Fechnology Group, In and 42	с.				Order#: Project: Project Name Location:	G02 EO2 e: Liv N.E.	04836 1096 ingston Rider of Eunice, N	to Hugh P. Sims M
Lab ID: Sample ID:	0204836-03 MW-12 (20')								
					801.	5M			
	Method Blank	Dat <u>Prep</u> a	te <u>ared</u>	Date <u>Analyzed</u>		Sample Amount	Dilution <u>Factor</u>	Analyst	Method
				10/25/02		1	1	СК	8015M
		Paramo	eter			Result mg/kg	:	RL	
		GRO, C6	-C12			<10.0		10.0	
		DRO, >C	C12-C35			<10.0		10.0	
		TOTAL,	C6-C35			<10.0		10.0	
			Surrogat	es	%	Recovered	QC Lin	nits (%)	
		1-C	hloroocta	ne		103%	70	130	
		1-C	hloroocta	decane	l	107%	70	130	
				80211	B/503	<i>30 BTEX</i>			
	Method	Dat	te .	Date	5	Sample	Dilution	1 	
	Blank	Prepa	ared	Analyzed	£	Amount	Factor	Analyst	Method
	0003529-02			1:52		1	25	CK	802113
		Paramo	eter			Result mg/kg		RL	-
		Benzene				< 0.025	;	0.025	-
		Ethylbenz	zene			< 0.025	;	0.025	
		Toluene				< 0.025		0.025	
		p/m-Xyle	ne			< 0.025		0.025	
		o-Xylene				< 0.025		0.025	
			Surrogat	es	%	Recovered	QC Lin	nits (%)	
		222	-Toluene			100%	80	120	

100%

80

120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Bromofluorobenzene

Page 3 of 10

ENVIRONMENTAL LAB OF TEXAS I, LTD.

Kobert Eldson Environmental Tech 540 West Marland Hobbs, NM 88242	nnology Group, Inc			Project: Project Nam Location:	EO2 EO2 e: Livi N.E.	14836 096 ngston Rider to of Eunice, NM	Hugh P. Sims
Lab ID: Sample ID:	0204836-04 MW-12 (32')						
				8015M			
	Method	Date	Date	Sample	Dilution	b	
	Blank	Prepared	Analyzed 10/25/02	Amount 1	Factor 1	<u>Analyst</u> CK	8015M
	1						
		Parameter		Resul mg/kg	t	RL	
		GRO, C6-C12		97.3		10.0	
		DRO, >C12-C35		340		10.0	
	Į	10TAL, C6-C35		437		10.0	
		Surroga	ites	% Recovered	QC Lim	iits (%)	
		1-Chlorooct	ane	95%	70	130	
		1-Chlorooct	adecane	103%	70	130	
			8021E	8/5030 BTEX			
	Method	Date	Date	Sample	Dilution	4	
	Blank	Prepared	Analyzed	Amount	<u>25</u>	<u>ABAIYSI</u>	9021B
	0003529-02		2:14	1	20	CK	00210
		Parameter		Resul mg/kg	t	RL	
		Benzene		0.342		0.025	
		Ethylbenzene		1.36		0.025	
		Toluene		0.535		0.025	
	l	p/m-Xylene		2.84		0.025	
	l	o-Xylene		0.837		0.025	
		Surroga	ites	% Recovered	QC Lim	nits (%)	
		aaa-Toluen	e	158%	80	120	
		Bromofluor	obenzene	106%	80	120	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

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Robert Eidson Environmental T 2540 West Maria Hobbs, NM 882	Technology Group, Inc. and 42				Order#: Project: Project Name Location:	G02 EO2 e: Liv N.E.	04836 2096 ingston R of Eunic	ider to Hugh P. Sims e, NM	5
Lab ID: Sample ID:	0204836-05 MW-13 (20')								
				801.	5M				
	Method Blank	Date Prepared	Date Analyzed	4	Sample Amount	Dilution <u>Factor</u>	ı <u>An</u> a	alyst Method	
			10/25/02		1	1	C	K 8015M	
		Parameter			Result mg/kg	t	RL		
	C	GRO, C6-C12			<10.0		10.0		
	Ľ	ORO, >C12-C35			<10.0		10.0		
	Т	OTAL, C6-C35	5		<10.0		10.0		
		Surrog:	ates	%	Recovered	QC Lin	nits (%)		
		1-Chlorooc	tadecane		91%	70	130		
			8021B	R/50.	30 BTEX	11			
	Method	Date	Date	5	Sample	Dilution	1		
	Blank	Prepared	Analyzed	A	Amount	Factor	<u>Ana</u>	lyst Method	
	0003529-02		10/25/02 2:36		1	25	C	K 8021B	
		Parameter			Result mg/kg		RL.		
	B	enzene			< 0.025	i	0.025		
	E	thylbenzene			< 0.025	;	0.025		
	Т	oluene			< 0.025	; 	0.025		
	p,	/m-Xylene			< 0.025		0.025		
	0	-Xylene			<0.025		0.025		
		Surrog	ates	%	Recovered	QC Lin	nits (%)		
		aaa-Toluen	e		85%	80	120		
		Bromofluor	obenzene	-	91%	80	120		

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Page 5 of 10

ENVIRONMENTAL LAB OF TEXAS I, LTD.

Robert Eidson Environmental Te 2540 West Marlar Hobbs, NM 8824	echnology Group, In nd 12	с.		Order#: Project: Project Nam Location:	G0: EO e: Liv N.E	204836 2096 /ingston Rider to of Eunice, NM) Hugh P. Sims
Lab ID: Sample ID:	0204836-06 MW-13 (40')			001516			
				8015M			
	Method Blank	Date Prenared	Date Analyzed	Sample	Dilutio Factor	n r Analyst	Method
	Diank	Tepared	10/25/02	1	1	CK	8015M
		Parameter		Resul	t	RL	
		T di di litto to i		mg/kg			
		GRO, C6-C12		<10.0		10.0	
		DRO, > C12-C35		<10.0		10.0	
		101AL, Co-C33		<10.0		10.0	
		Surroga	ites	% Recovered	QC Li	mits (%)	
		1-Chlorooct	ane	93%	70	130	
		1-Chlorooct	adecane	97%	70	130	
			8021E	B/5030 BTEX			
	Method	Date	Date	Sample	Dilutio	n	
	Blank	Prepared	Analyzed	Amount	Factor	Analyst	Method
	0003529-02		9:41	I	25	CK	80218
		Parameter		Resul	t	RL	
		Benzene		<0.024	5	0.025	
		Ethylbenzene		<0.025	5	0.025	
		Toluene		<0.025	5	0.025	
		p/m-Xylene		<0.02	5	0.025	
		o-Xylene		< 0.02	5	0.025	
		Surroad	ites	% Recovered		mits (%)	
		aaa-Toluen	A.	97%	80	120	
		Bromofluor	benzene	97%	80	120	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

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Robert Eidson Environmental 1 2540 West Marla Hobbs, NM 882	Fechnology Group, In and 42	ıc.]	Order#: Project: Project Name Location:	G02 EO e: Liv N.E	204836 2096 /ingston Rider to of Eunice, NM	o Hugh P. Sims
Lab ID: Sample ID:	0204836-07 MW-14 (30')							
				8015	5M			
	Method Blank	Date Prepared	Date Analyzed	S	Sample	Dilutio Factor	n Analyst	Method
		******	10/25/02	-	1	1	СК	8015M
		Parameter			Result mg/kg	t	RL	
		GRO, C6-C12			<10.0	1	10.0	
		DRO, >C12-C35			<10.0		10.0	
		TOTAL, C6-C35			<10.0		10.0	
		Surroga	ites	%	Recovered	QC Li	mits (%)	
		1-Chlorooct	ane		80%	70	130	
		1-Chlorooct	adecane	I	84%	70	130	
			8021E	3/503	80 BTEX			
	Method	Date	Date	S	Sample	Dilutio	n	
	Blank	Prepared	Analyzed	A	mount	Factor	Analyst	Method
	0003529-02	1	10/25/02 3:20		1	25	СК	8021B
		Parameter			Result mg/kg	t	RL	
		Benzene			< 0.025	5	0.025	
		Ethylbenzene	••• ••• • ,• ••• •• ••		< 0.025	5	0.025	
		Toluene			< 0.025	;	0.025	
		p/m-Xylene			< 0.025	5	0.025	
		o-Xylene			< 0.025	5	0.025	
		Surroga	ites	%	Recovered	OC Li	mits (%)	
		aaa-Toluen			106%	80	120	
		Bromofluoro	benzene		113%	80	120	
		L		<u> </u>			<u> </u>	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 7 of 10

ENVIRONMENTAL LAB OF TEXAS I, LTD.

Robert Eidson Environmental 7 2540 West Mark Hobbs, NM 882	Fechnology Group, In and 242	c.		Order#: Project: Project Nam Location:	G02 EO e: Liv N.E	204836 2096 /ingston Rider to of Eunice, NM	Hugh P. Sims
Lab ID: Sample ID:	0204836-08 MW-14 (40')						
				8015M			
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilutio <u>Factor</u>	n <u>Analyst</u>	Method
			10/25/02	1	1	СК	8015M
		Parameter		Resul mg/kg	t	RL	
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35		<10.0		10.0	
		TOTAL, C6-C35		<10.0		10.0	
		[. Of Deservered			
		Surroga	tes	% Recovered			
		1-Chlorooct	ane	92%	70	130	
			00011L	5020 DTEV		130	
	Mathod	Data	00211	Sample	Dilutio	_	
	Blank	Prenared	Analyzed	Amount	Factor	n · Analyst	Method
	0003529-02	<u></u>	10/25/02 3:42	1	25	СК	8021B
		Parameter		Resul mg/kg		RL	
		Benzene		< 0.025	5	0.025	
		Ethylbenzene		< 0.025	5	0.025	
		Toluene		< 0.025	5	0.025	
		p/m-Xylene		<0.025	5	0.025	
		o-Xylene		<0.025	5	0.025	
		Surroga	tes	% Recovered	QC Li	mits (%)	
		aaa-Toluene	•	87%	80	120	
		Bromofluoro	benzene	93%	80	120	

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS I, LTD.

Robert Eidson Environmental Technology Group, Inc. 2540 West Marland Hobbs, NM 88242						Order#: Project: Project Nam Location:	G0204836 : EO2096 Name: Livingston on: N.E. of Eun		Rider to Hugh P. Sims nice, NM		
Lab ID: Sample ID:	0204836-09 MW-15 (20')										
	8015M										
	Method		Date	Date	Date Sample			Dilution			
	Blank	Prepared		<u>Analyzed</u> 10/25/02		Amount		Factor Analys		st Method	
						1		СК		8015M	
		Par	Parameter			Resul mg/kg	t	RL			
		GRO, C6-C12				<10.0		10.0)		
		DRO,	PRO, >C12-C35			<10.0		10.0)		
		TOTA	ГАL, C6-C35			<10.0		10.0			
								····	-		
			Surrog	ites	%	Recovered	QC L	imits (%)	<u> </u>		
			1-Chlorooctane			87%	70	130	-		
		l	0021L			5020 DTEV					
	Mathod		OU21D/J Date Date		/303	Sample r		Dilution			
	Blank	Prepared		Analyzed	Ă	Amount		actor Analys		Method	
	0003529-02			10/25/02 4:05	-	1	25		СК	8021B	
		Parameter				Result mg/kg		RL			
		Benze	ene			< 0.025	;	0.02	5		
		Ethyll	benzene			<0.025		0.02	5		
		Tolue	ne			<0.025		0.025			
		p/m-X	-Xylene			<0.025		0.025			
		o-Xyl	o-Xylene			<0.025		0.02	b		
		1	[]			D			1		
			Surrogates			Recovered		mits (%)			
		1	aaa- i oluene Bromofluorobenzene			87%	80	120			
		Diomonaciobenzono					1		٦		

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 9 of 10

ENVIRONMENTAL LAB OF TEXAS I, LTD.
ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

Robert Eidson Environmental 7 2540 West Mari Hobbs, NM 882	Fechnology Group, In and 242	с.		Order#: Project: Project Name Location:	G020 EO20 e: Livi N.E.	14836 196 ngston Rider to of Eunice, NM	o Hugh P. Sims
Lab ID: Sample ID:	0204836-10 MW-15 (45')						
				8015M			
	Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 10/25/02	Sample <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Analyst</u> CK	<u>Method</u> 8015M
		Parameter		Result mg/kg	t	RL	
		GRO, C6-C12		<10.0		10.0	
		DRO, >C12-C35		<10.0		10.0	
		TOTAL, C6-C35		<10.0		10.0	
			<u> </u>				
		Surroga 1 Chloroog	ites	% Recovered		120	
		1-Chlorooc	tadecane	83%	70	130	
			8021B	2/5030 RTEX	<u></u>		
	Method	Date	Date	Sample	Dilution		
	Blank	Prepared	Analyzed	Amount	Factor	Analyst	Method
	0003529-02		10/25/02 9:11	1	25	СК	8021B
		Parameter		Result mg/kg		RL	
		Benzene		<0.025	;	0.025	
		Ethylbenzene		<0.025	5	0.025	
		Toluene		<0.025	;	0.025	
		p/m-Xylene		<0.025	5	0.025	
		o-Xylene		<0.025	,	0.025	
		Sumag		% Decovered	OC Lim	ita (94)	
		Surrog		80%	80	120	
		Bromofluor	obenzene	88%	80	120	
				ApproRalan	oval: R Id K. Tuttle	. Lab Director,	QA Officer Date

Raland K. Tuttle, Lab Director, QA Offic Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

111

Page 10 of 10

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ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

8015M

Order#: G0204836

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003553-02			<10.0		*
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003553-03		952	1170	122.9%	
CONTROL DUP	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003553-04		952	1120	117.6%	4.4%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003553-05		1000	988	98.8%	

ENVIRONMENTAL LAB OF TEXAS I, LTD. 12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0204836

BLANK SOII	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0003528-02	MALE		<0.025		
Benzene-mg/kg	0003529-02			<0.025		
Ethylbenzene-mg/kg	0003528-02			<0.025		
Ethylbenzene-mg/kg	0003529-02	•·····································		<0.025		
Toluene-mg/kg	0003528-02			<0.025		
Toluene-mg/kg	0003529-02	······································		<0.025		
p/m-Xylene-mg/kg	0003528-02	<u> </u>		<0.025		
p/m-Xylene-mg/kg	0003529-02			<0.025		
o-Xylene-mg/kg	0003528-02	<u> </u>	:	<0.025		
o-Xylene-mg/kg	0003529-02	······································		<0.025		
MS sou	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0204836-09	0	100	94.3	94.3%	
Benzene-mg/kg	0204841-01	0	0.1	0.095	95.%	
Ethylbenzene-mg/kg	0204836-09	0	100	97.7	97.7%	
Ethylbenzene-mg/kg	0204841-01	0	0.1	0.098	98.%	
Toluene-mg/kg	0204836-09	0	100	97.2	97.2%	
Toluene-mg/kg	0204841-01	0	0.1	0.099	99.%	
p/m-Xylene-mg/kg	0204836-09	0	200	204	102.%	
p/m-Xylene-mg/kg	0204841-01	0	0.2	0.207	103.5%	
o-Xylene-mg/kg	0204836-09	0	100	98.4	98.4%	
o-Xylene-mg/kg	0204841-01	0	0.1	0.098	98.%	
MSD som	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0204836-09	94.3	100	92.1	92.1%	2.4%
Benzene-mg/kg	0204841-01	0	0.1	0.090	90.%	5.4%
Ethylbenzene-mg/kg	0204836-09	97.7	100	97	97.%	0.7%
Ethylbenzene-mg/kg	0204841-01	0	0.1	0.094	94.%	4.2%
Toluene-mg/kg	0204836-09	97.2	100	96.8	96.8%	0.4%
Toluene-mg/kg	0204841-01	0	0.1	0.094	94.%	5.2%
p/m-Xylene-mg/kg	0204836-09	204	200	203	101.5%	0.5%
p/m-Xylene-mg/kg	0204841-01	0	0.2	0.197	98.5%	5.%
o-Xylene-mg/kg	0204836-09	98.4	100	96.4	96.4%	2.1%
o-Xylene-mg/kg	0204841-01	0	0.1	0.093	93.%	5.2%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0003528-05		0.1	0.093	93.%	
Benzene-mg/kg	0003529-05		0.1	0.096	96.%	
Ethylbenzene-mg/kg	0003528-05		0.1	0.095	95.%	
Ethylbenzene-mg/kg	0003529-05		0.1	0.098	98.%	
Toluene-mg/kg	0003528-05		0.1	0.097	97.%	

ENVIRONMENTAL LAB OF TEXAS I, LTD.

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ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT 8021B/5030 BTEX

Order#: G0204836

SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Toluene-mg/kg		0003529-05		0.1	0.099	99.%	
p/m-Xylene-mg/kg		0003528-05		0.2	0.199	99.5%	······································
p/m-Xylene-mg/kg		0003529-05		0.2	0.206	103.%	
o-Xylene-mg/kg		0003528-05		0.1	0.097	97.%	<u> </u>
o-Xylene-mg/kg		0003529-05		0.1	0.099	99.%	·····

ENVIRONMENTAL LAB OF TEXAS I, LTD. 12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

CASE NARRATIVE ENVIRONMENTAL LAB OF TEXAS

Prepared for:

Environmental Technology Group, Inc. 2540 West Marland Hobbs, NM 88242

Order#: G0204836

Project: Livingston Rider to Hugh P. Sims

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
MW-11 (35')	0204836-01	SOIL	10/11/2002	10/23/2002
MW-11 (40')	0204836-02	SOIL	10/11/2002	10/23/2002
MW-12 (20')	0204836-03	SOIL	10/14/2002	10/23/2002
MW-12 (32')	0204836-04	SOIL	10/14/2002	10/23/2002
MW-13 (20')	0204836-05	SOIL	10/15/2002	10/23/2002
MW-13 (40')	0204836-06	SOIL	10/15/2002	10/23/2002
MW-14 (30')	0204836-07	SOIL	10/16/2002	10/23/2002
MW-14 (40')	0204836-08	SOIL	10/16/2002	10/23/2002
MW-15 (20')	0204836-09	SOIL	10/16/2002	10/23/2002
MW-15 (45')	0204836-10	SOIL	10/16/2002	10/23/2002

Surrogate recoveries are outside control limits due to matrix interference from coeluting compounds.

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By:

Environmental Lab of Texas I,

10-30-02 Date:

HAIN OF CUSTODY RECORD AND ANALYSIS REQUEST	Project Name: LININGSTON RIDGE TO HUGH P. SIMS	Froject #: £02096	Project Lac: N. E OF E WRE, NM	PO#: E02096		Analyze Foi:	TCLF TCLA	Maltix	Solide Solide Solide Solide									Sample Containets Intact? () M Temporature Upon Recent: Laboratory Comments:	$\frac{1}{2} \frac{1}{000} \frac{7.0}{7.0} \frac{1}{100} \frac{1}$	10 1mm
as, Inc.				242	Fax No: 505-397-4201			Preservative	Date Sampled Time Sampled HCI HCI HCI HCI HCI HCI HOne HCI HOne HCI HOne HOne HOne HOne	10/11/02 12:30 1 X	10/1/02 12:53 1 X	10/14/02 13:56 1 2	19/13/02 /4:31 / C	10/15/02 10:27 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1	10/16/02 09144/ 1 X	10/10/02 10:26 1 ×	10/16/03 15/00 1 ×	in the second states	Filme Received by: Data $\mathcal{P}(\mathcal{O})$	Time Received by Etc. (10/2)
Environmental Lab of Tex 12600 West 1-20 East Phone: 915-563-181 Phone: 915-563-181 Eax: 915-563-172	DUCESSA, ICARS FOR MANAGER: ROBLER EDSS	Contrary Name FFGT	Commany Additess: 2540 L. MARLA	City/State/Zip: Hasse, NM. 88.	Telephone No: SS-297-4882	Sampler Signature:			FIELD CODE	() (132,)	()V MN-11 (40.)	<u>(); mk-12 (20')</u>	04 MW-12(32)	$\frac{1}{M^{1}} = \frac{1}{M^{1}} = $	(10C)HI-MU 10	(on)hi-1914 \$0	04 MU-15(20)	Special Instructions:	Relingtoned by Date Date 19/22/02 08	Redinquestion by Date Date Date (10/22/22/02/02

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Analytical Report

Prepared for:

Camille Reynolds Plains All American EH & S 1301 S. County Road 1150 Midland, TX 79706-4476

Project: Livingston Ridge to Hugh-Sims Landfarm Project Number: 2001-11005 Location: Lea

Lab Order Number: 5I09012

Report Date: 09/15/05

Plains All American EH & S	Project:	Livingston Ridge to Hugh-Sims Landfarm	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number:	2001-11005	Reported:
Midland TX, 79706-4476	Project Manager:	Camille Reynolds	09/15/05 12:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PLRH9805-NE	5109012-01	Soil	09/08/05 11:40	09/09/05 15:00
PLRH9805-NW	5109012-02	Soil	09/08/05 11:35	09/09/05 15:00
PLRH9805-SE	5109012-03	Soil	09/08/05 11:50	09/09/05 15:00
PLRH9805-SW	5109012-04	Soil	09/08/05 11:45	09/09/05 15:00

Project: Livingston Ridge to Hugh-Sims Landfarm Project Number: 2001-11005 Project Manager: Camille Reynolds

09/15/05 12:13

		Environ	mental La	b of To	exas				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PLRH9805-NE (5109012-01) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	E150914	09/09/05	09/12/05	EPA 8015M	
Diesel Range Organics >C12-C35	, ND	10.0		п	н	н	н	"	
Total Hydrocarbon C6-C35	ND	10.0	н	н	"	••	и	u	
Surrogate: 1-Chlorooctane		90.0 %	70-130	0	"	"	"	"	
Surrogate: 1-Chlorooctadecane		103 %	70-130	0	"	"	"	"	
PLRH9805-NW (5109012-02) Soil									
Gasoline Range Organics C6-C12	11.6	10.0	mg/kg dry	1	E150914	09/09/05	09/12/05	EPA 8015M	
Diesel Range Organics >C12-C35	177	10.0	н	н	н	"	н	u	
Total Hydrocarbon C6-C35	189	10.0	н		н	"	н	11	
Surrogate: 1-Chlorooctane		88.2 %	70-130)	"	"	"	n	
Surrogate: 1-Chlorooctadecane		114 %	70-130)	"	"	"	"	
PLRH9805-SE (5109012-03) Soil									
Gasoline Range Organics C6-C12	10.2	10.0	mg/kg dry	1	EI50914	09/09/05	09/12/05	EPA 8015M	
Diesel Range Organics >C12-C35	290	10.0	н	11	••	п	"		
Total Hydrocarbon C6-C35	300	10.0	н			н	н	"	
Surrogate: 1-Chlorooctane		87.8 %	70-130)	"	"	"	"	
Surrogate: 1-Chlorooctadecane		115 %	70-130)	"	"	"	"	
PLRH9805-SW (5109012-04) Soil									
Gasoline Range Organics C6-C12	10.9	10.0	mg/kg dry	I	EI50914	09/09/05	09/12/05	EPA 8015M	
Diesel Range Organics >C12-C35	476	10.0	"	н	"	и	н	"	
Total Hydrocarbon C6-C35	487	10.0	"	"	н	u	п	"	
Surrogate: 1-Chlorooctane		91.8 %	70-130)	"	"	"	"	
Surrogate: 1-Chlorooctadecane		118 %	70-130)	"	"	"	"	

Organics by GC

Environmental Lab of Texas

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

Page 2 of 6

Project:Livingston Ridge to Hugh-Sims LandfarmProject Number:2001-11005Project Manager:Camille Reynolds

Reported: 09/15/05 12:13

General Chemistry Parameters by EPA / Standard Methods

Environmental	Lab of	Texas
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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PLRH9805-NE (5109012-01) Soil									
% Moisture	9.4	0.1	%	1	EI51214	09/09/05	09/13/05	% calculation	
PLRH9805-NW (5109012-02) Soil									
% Moisture	9.1	0.1	%	1	EI51214	09/09/05	09/13/05	% calculation	
PLRH9805-SE (5109012-03) Soil									
% Moisture	11.5	0.1	%	1	EI51214	09/09/05	09/13/05	% calculation	
PLRH9805-SW (5109012-04) Soil									
% Moisture	11.0	0.1	%	1	EI51214	09/09/05	09/13/05	% calculation	

Environmental Lab of Texas

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Page 3 of 6

Project: Livingston Ridge to Hugh-Sims Landfarm Project Number: 2001-11005 Project Manager: Camille Reynolds

Reported: 09/15/05 12:13

Organics by GC - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI50914 - Solvent Extraction (GC)										
Blank (EI50914-BLK1)				Prepared: (09/09/05 A	Analyzed: 09	9/12/05			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	н							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	48.7		mg/kg	50.0		97.4	70-130			
Surrogate: 1-Chlorooctadecane	58.6		"	50.0		117	70-130			
LCS (EI50914-BS1)				Prepared: ()9/09/05 A	nalyzed: 09	0/12/05			
Gasoline Range Organics C6-C12	390	10.0	mg/kg wet	500		78.0	75-125		·	
Diesel Range Organics >C12-C35	381	10.0		500		76.2	75-125			
Total Hydrocarbon C6-C35	771	10.0		1000		77.1	75-125			
Surrogate: 1-Chlorooctane	49.4		mg/kg	50.0		98.8	70-130		· •••• · · · · · · · · · · · · · · · ·	
Surrogate: 1-Chlorooctadecane	57.3		"	50.0		115	70-130			
Calibration Check (EI50914-CCV1)				Prepared: ()9/09/05 A	nalyzed: 09	/12/05			
Gasoline Range Organics C6-C12	404		mg/kg	500		80.8	80-120			
Diesel Range Organics >C12-C35	452		н	500		90.4	80-120			
Total Hydrocarbon C6-C35	856		11	1000		85.6	80-120			
Surrogate: 1-Chlorooctane	44.9		<i>"</i>	50.0		89.8	0-200			
Surrogate: 1-Chlorooctadecane	50.3		"	50.0		101	0-200			
Matrix Spike (EI50914-MS1)	Sou	rce: 5109011-	-01	Prepared: 0)9/09/05 A	nalyzed: 09	/12/05			
Gasoline Range Organics C6-C12	420	10.0	mg/kg dry	559	ND	75.1	75-125			
Diesel Range Organics >C12-C35	421	10.0		559	ND	75.3	75-125			
Total Hydrocarbon C6-C35	841	10.0	н	1120	ND	75.1	75-125			
Surrogate: I-Chlorooctane	49.3		mg/kg	50.0		98.6	70-130			
Surrogate: 1-Chlorooctadecane	56.7		"	50.0		113	70-130			
Matrix Spike Dup (EI50914-MSD1)	Sou	rce: 5109011-	-01	Prepared: 0	09/09/05 A	nalyzed: 09	/12/05			
Gasoline Range Organics C6-C12	421	10.0	mg/kg dry	559	ND	75.3	75-125	0.238	20	
Diesel Range Organics >C12-C35	421	10.0	"	559	ND	75.3	75-125	0.00	20	
Total Hydrocarbon C6-C35	842	10.0	"	1120	ND	75.2	75-125	0.119	20	
Surrogate: 1-Chlorooctane	49.8		mg/kg	50.0		99.6	70-130			
Surrogate: 1-Chlorooctadecane	58.3		"	50.0		117	70-130			

Environmental Lab of Texas

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Page 4 of 6

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

·····	······			Ć wile o			0/ BEC		BBD	
Analyte	Result	Limit	Units	Level	Result	%REC	%REC Limits	RPD	Limit	Notes
Batch EI51214 - General Preparation (Prep)										
Blank (EI51214-BLK1)				Prepared: 0	9/09/05 A	Analyzed: 09/	/13/05			
% Solids	100		%							
Duplicate (EI51214-DUP1)	Sourc	e: 5108021-02		Prepared: 0	9/09/05 A	Analyzed: 09/	13/05			
% Solids	95.3		%		95.5			0.210	20	
Duplicate (EI51214-DUP2)	Sourc	e: 5109013-05		Prepared: 0	9/09/05 A	nalyzed: 09/	/13/05			
% Solids	99.2		%		99.0			0.202	20	
Duplicate (EI51214-DUP3)	Sourc	e: 5109010-03		Prepared: 0	9/09/05 A	nalyzed: 09/	13/05			
% Solids	90.9		%		90.2			0.773	20	

Environmental Lab of Texas

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Page 5 of 6

Plains All American EH & S 1301 S. County Road 1150 Midland TX, 79706-4476

Reported: 09/15/05 12:13

Notes and Definitions

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

Dup Duplicate

Report Approved By:

Raland K Junis

Date: 9/15/2005

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

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Environmental Lab of Texas

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

Page 6 of 6

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Variance / Corrective Action Report – Sample Log-In

Client: P	ains
Date/Time:	99/05
Order #:	STOPOR
Initials:	(R

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	<u>4:0</u> CI
Shipping container/cooler in good condition?	Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes,	No	
Chain of custody agrees with sample label(s)	705	No	
Container labels legible and intact?	Kes	No	
Sample Matrix and properties same as on chain of custody?	Yes)	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Xes,	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	(es)	No	
Containers documented on Chain of Custody?	(es)	No	
Sufficient sample amount for indicated test?	Yes I	No I	
All samples received within sufficient hold time?	(Yes)	No	
VOC samples have zero headspace?	Yes	No 1	Not Applicable

Other observations:

Variance Documentation:

Jontact Person:	 Date/Time:	an a	Contacted	oy:
Regarding:				

-

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Corrective Action Taken:

APPENDIX B

Photographs



Photograph #1 – Looking northerly at initial release area.



Photograph #2 – Looking westerly at initial release area.



Photograph #3 – Looking westerly at initial excavation.



Photograph #3 – Looking northerly at excavation.

APPENDIX C

Informational Copy of C-141 Form

Form C-141 Revised March 17, 1999

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

					·· , ·	~						
		Relea	ase No	tification	and	Correc	ctive Action	1				
OPE	RATOR						Initial Re	port [Final	Report		
Name of Con	npany					Conta	et					
Plains Pipelir	ne, L.P.					Camill	e Reynolds					
Address				Telepł	none No.							
3112 W. Hwy 82, Lovington, NM 88260							06-3341			·		
Facility Name							у Туре					
Livingston R	idge to Hug	<u>h – P. Sims (</u> #	\$2001-11	005)		4-inch	Steel Pipeline					
~ ~ ~							·			N. 0.0.111		
Surface Own	ner			Minera	al Owr	ner			Lea	se No. O-Grid No.		
G.P. Sims									231	/35		
			\mathbf{L}	OCATION	OF F	RELEAS	SE					
Unit Letter	Section	Township	Range	Feet from the	Nor	th/South	Feet from the	East/We	st (County: Lea		
J	3	215	37Ĕ		Line	2		Line	L	Lat. 32° 30' 12.27"N		
							<u> </u>		L	Lon. 103° 08' 54.81"W		
			I	NATURE)F RF	LEAST	т. Г.					
Type of Relea	5 <u>P</u>					Volume o	r Release		Volume	Recovered		
Crude Oil	5C					6 barrels			0 barre	els		
Source of Rel	ease					Date and	Hour of Occurre	ence	Date and Hour of Discovery			
4-inch Steel Pi	peline					June 4, 2001 @ 11:30 AM June 4, 2001 @ 12:00 PM						
Was Immedia	te Notice Gi	ven?		· · · · · · · · · · · · · · · · · · ·		If YES, To Whom?						
			s 🖾 No	∐ Not Requ	ired							
By Whom? Date and Hour												
Was a Waterco	ourse Reache	d? 🗌 Yes	No No			If YES, Volume Impacting the Watercourse. NA						
If a Watercou	rse was Imp	acted, Describ	e Fully.*									
NA .												
Describe Cause $ft^2 (\sim 20'x 50')$	se of Probler	n and Remedia	al Action '	Faken.* Interna	l corros	ion of 4-in	ch steel pipeline. I	Release are	ea compris	ed approximately 1,214-		
Describe Area	Affected ar	nd Cleanup Ac	tion Take	n. * Approximate	elv 890	-vd ³ Impac	ted soil was excav	vated to a n	naximum o	lepth of 12-feet bgs.		
Approximately	/ 150-yd ³ of t	he most saturat	ed soil wa	s transported to	the EPI	Landfarm	for treatment. The	remaining	g excavate	d soil was placed in a bio-		
cell area adjace	ent to the exc	avation to allow	v for natur	al attenuation.	Ground	water moni	toring is ongoing.		-	•		
I hereby certify	that the info	ormation given	above is tr	ue and complete	to the	best of my	knowledge and ur	nderstand t	hat pursua	nt to NMOCD rules and		
regulations all	operators are	required to rep	ort and/or	file certain relea	ase noti	fications ar	nd perform correct	ive actions	s for releas	ses which may endanger		
public health o	r the environ	ment. The acce	eptance of	a C-141 report t	by the N	MOCD m	arked as "Final Re	eport" does	not reliev	e the operator of hability		
health or the e	vironment	In addition NN	AOCD acc	entance of a C-1	$\frac{41}{1}$ rep	ontamination of the second sec	relieve the operation	tor of resp	iu water, s	for compliance with any		
other federal.	tate, or local	laws and/or reg	zulations.	eptanee of a C-1	птер	511 UOCS 1101	. Teneve the operation	ior or respi	susteniny I	or compriance with any		
							OIL CON	SERVA	TION	DIVISION		
Signature:												
Drintod Norma	. Comilla D	aunolda										
		eynolus				Approv	ed by District Sup	pervisor:				
Title: Remedi	ation Coordi	nator				Approv	al Date:		Expirat	ion Date:		
Date:		P	hone: 505	-396-3341		Conditions of Approval: Attached						

* Attach Additional Sheets If Necessary

14