### Bratcher, Mike, EMNRD

From: Sent: To: Cc: Subject: Attachments: Logan Anderson [la\_elkeenv@yahoo.com] Thursday, March 11, 2010 4:11 PM Bratcher, Mike, EMNRD Bobby Steadham Linn Operating - C A Russell Battery (2RP-392) Remediation Proposal.pdf

Mike,

As per the conversation between you and Bobby Steadham today, attached is the remediation proposal for the Dig and Haul if the impacted soil at the C A Russell Battery. If you have any questions feel free to contact me.

Thanks, Logan Anderson

Project Manager Elke Environmental, Inc. off 432-366-0043 cell 432-664-1269 fax 432-366-0884

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# **Remediation Plan**

Prepared for Linn Operating

# C A Russell Battery Eddy County, NM

2RP - 392

Prepared by *Elke Environmental, Inc.* P.O. Box 14167 Odessa, TX 79768 Phone (432) 366-0043 Fax (432) 366-0884

# Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768 Phone (432) 366-0043 Fax (432) 366-0884

March 1, 2010

New Mexico Oil Conservation Division Mr. Mike Bratcher 1301 West Grand Ave. Artesia, New Mexico 88210

> Re: Linn Operating – C A Russell Battery UL 'B' Sec. 18 T17S R31E Eddy County 2RP-392

Mr. Mike Bratcher,

Elke Environmental was contracted by Linn Operating to complete the delineation and remediation of the spill at the C A Russell Battery. Site ranking for the site is as follows: Wellhead Protection – 0 points, Surface body of Water – 0 points and Groundwater (>200') - 0 points. Total ranking for the site is 0 points. The RAL's for the site will be TPH – 5,000ppm; Chloride – 250ppm and BTEX – 100ppm (using field vapor headspace measurement). Initial sampling of the spill was completed on 2-25-10 by hand. The delineation was completed on 3-2-10 and 3-3-10. Attached is a plat map and field analytical of the delineation.

Linn Operating proposes to excavate 18" of impacted soil and haul to an OCD Approved disposal. A 20 mil poly liner will be installed at 18" with a 4 oz. Geotextile Liner above and below the poly liner. After installation of the liner, clean native soil will be backfilled into the excavation. A final report with lab confirmations will be submitted at the completion of the project. If you have any questions about the enclosed report please contact me at the office.

Sincerely,

Logan Anderson



# Elke Environmental, Inc. P.O. Box 14167 Odessa, TX 79768

# **Field Analytical Report Form**

Client\_Linn Operating

Analyst Bobby Steadham

Site C A Russell Battery

Sample ID	Date	Depth	418.1 TPH / PPM	Cl/PPM	PID / PPM	GPS
TP1	2-25-10	6"	6,450	175	1,055	32° 50.291' N 103° 54.335' W
TP1	2-25-10	1' 6"	1,004	169	219	32° 50.291' N 103° 54.335' W
TP1	3-3-10	3' 6"	1,278	239	119	32° 50.291' N 103° 54.335' W
TP1	3-3-10	4' 6"	1,295	509	106	32° 50.291' N 103° 54.335' W
TP1	3-3-10	5' 6"	465	1,075	13.5	32° 50.291' N 103° 54.335' W
TP1	3-3-10	6' 6''	6	1,762	8.7	32° 50.291' N 103° 54.335' W
TP1	3-3-10	7' 6"		1,876	6.4	32° 50.291' N 103° 54.335' W
TP1	3-3-10	8' 6''		1,423	4.5	32° 50.291' N 103° 54.335' W
TP1	3-3-10	9' 6"		1,687	3.7	32° 50.291' N 103° 54.335' W
TP1	3-3-10	10' 6"		2,377	4.8	32° 50.291' N 103° 54.335' W
TP1	3-3-10	11' 6"		1,966	5.2	32° 50.291' N 103° 54.335' W
TP1	3-3-10	12' 6"		871	3.1	32° 50.291' N 103° 54.335' W
TP1	3-3-10	13' 6"	11	256	2.0	32° 50.291' N 103° 54.335' W
		l				
TP2	2-25-10	6"	15,410	184	1,635	32° 50.294' N 103° 54.335' W
TP2	2-25-10	1' 6"	400	79	717	32° 50.294' N 103° 54.335' W
TP2	3-2-10	2' 6"	167	122	95.0	32° 50.294' N 103° 54.335' W

Analyst Notes\_

# Elke Environmental, Inc. P.O. Box 14167 Odessa, TX 79768

# **Field Analytical Report Form**

# Client Linn Operating

Analyst \_\_\_\_Bobby Steadham

Site CA Russell Battery

Sample ID	Date	Depth	418.1 TPH / PPM	Cl/PPM	PID / PPM	GPS
ТР3	2-25-10	6"	19,580	92	1,514	32° 50.296' N 103° 54.328' W
TP3	2-25-10	1' 6"	976	117	926	32° 50.296' N 103° 54.328' W
TP3	3-2-10	2' 6"	1,276	173	1,186	32° 50.296' N 103° 54.328' W
TP3	3-2-10	3' 6"	127	118	277	32° 50.296' N 103° 54.328' W
TP3	3-2-10	5'	14	114	47.9	32° 50.296' N 103° 54.328' W
TP4	2-25-10	6"	22,150	119	1,305	32° 50.294' N 103° 54.323' W
TP4	2-25-10	1' 6"	12,850	119	1,118	32° 50.294' N 103° 54.323' W
TP4	3-2-10	2' 6"	487	200	384	32° 50.294' N 103° 54.323' W
TP4	3-2-10	3' 6"	587	119	113	32° 50.294' N 103° 54.323' W
TP4	3-2-10	4' 6"	1,250	109	76.3	32° 50.294' N 103° 54.323' W
TP4	3-2-10	5' 6"	682	141	41.1	32° 50.294' N 103° 54.323' W
		۹.				
TP5	2-25-10	6"	22,000	176	1,341	32° 50.292' N 103° 54.331' W
TP5	2-25-10	1' 6"	1,250	129	1,304	32° 50.292' N 103° 54.331' W
TP5	3-2-10	2' 6"	1,690	247	529	32° 50.292' N 103° 54.331' W
TP5	3-2-10	3'	10,190	449	457	32° 50.292' N 103° 54.331' W

Analyst Notes\_

# Elke Environmental, Inc. P.O. Box 14167 Odessa, TX 79768

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# **Field Analytical Report Form**

Client \_\_\_\_\_ Analyst \_\_\_\_ Bobby Steadham

Site C A Russell Battery

Sample ID	Date	Depth	418.1 TPH / PPM	Cl / PPM	PID / PPM	GPS
TP5	3-2-10	3' 6"	3,660	569	104	32° 50.292' N 103° 54.331' W
TP5	3-2-10	5'	32	773	41.0	32° 50.292' N 103° 54.331' W
TP5	3-2-10	5' 6"		703		32° 50.292' N 103° 54.331' W
TP5	3-3-10	6'		860		32° 50.292' N 103° 54.331' W
TP5	3-3-10	8'	16	235	54.5	32° 50.292' N 103° 54.331' W
North Wall	3-3-10	5'	27	209	11.1	32° 50.297' N 103° 54.330' W
East Wall	3-3-10	5'	16	149	10.8	32° 50.296' N 103° 54.318' W
South Wall	3-3-10	5'	31	259	7.0	32° 50.288' N 103° 54.331' W
West Wall	3-3-10	5'	369	271	29.0	32° 50.291' N 103° 54.340' W
	-					

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Analyst Notes\_

# Analytical Report 364388

for

### Elke Environmental, Inc.

**Project Manager: Logan Anderson** 

**Linn Operating** 

**CA Russel Battery** 

### 09-MAR-10





### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

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09-MAR-10



Project Manager: Logan Anderson Elke Environmental, Inc. P.O. Box 14167 Odessa, TX 79768

Reference: XENCO Report No: 364388 Linn Operating Project Address: CA Russel Battery

#### Logan Anderson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 364388. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 364388 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II Odessa Laboratory Manager

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### Sample Cross Reference 364388



# Elke Environmental, Inc., Odessa, TX

# Linn Operating

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TP1 @ 162"	S	Mar-03-10 17:00	162 In	364388-001
TP2 @ 30"	S	Mar-02-10 11:00	30 In	364388-002
TP3 @ 60"	S	Mar-02-10 15:00	60 In	364388-003
TP4 @ 66"	S	Mar-02-10 15:00	66 In	364388-004
TP5 @ 96"	S	Mar-03-10 12:00	96 In	364388-005



### **CASE NARRATIVE**

Client Name: Elke Environmental, Inc. Project Name: Linn Operating



Project ID:CA Russel BatteryWork Order Number:364388

Report Date: 09-MAR-10 Date Received: 03/04/2010

### Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

# None Analytical Non Conformances and Comments:

Batch: LBA-796849 Percent Moisture AD2216A Batch 796849, Percent Moisture RPD is outside the QC limit. This is most likely due to sample non-homogeneity. Samples affected are: 364388-004, -001, -002, -003, -005.

Batch: LBA-797069 TPH By SW8015 Mod None

Batch: LBA-797091 Anions by E300 None



### Certificate of Analysis Summary 364388

Elke Environmental, Inc., Odessa, TX





Project Id:CA Russel BatteryContact:Logan AndersonProject Location:CA Russel Battery

Date Received in Lab: Thu Mar-04-10 02:39 pm

Report Date: 09-MAR-10

- oject Docution, Ort Russer Buttery					_			Project Ma	nager:	Brent Barron,	II	
	Lab Id:	364388-	001	364388-0	002	364388-0	003	364388-0	04	364388-0	005	
Anglusia Paguastad	Field Id:	TP1 @ 1	.62"	TP2 @ 3	0"	TP3 @ 60"		TP4 @ 6	6"	TP5 @ 9	6"	
Analysis Kequesieu	Depth:	162 I	n	30 In		60 In		66 In		96 In		
	Matrix:	SOII	SOIL			SOIL		SOIL		SOIL		
	Sampled:	Mar-03-10	Mar-03-10 17:00		11:00	Mar-02-10	15:00	Mar-02-10	15:00	Mar-03-10	12:00	
Anions by E300	Extracted:											
	Analyzed:	Mar-09-10	09:11	Mar-09-10	09:11	Mar-09-10	09:11	Mar-09-10	)9:11	Mar-09-10	09:11	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		ND	4.23	97.4	9.46	67.6	8.74	480	17.6	143	9.25	
Percent Moisture	Extracted:			]								
	Analyzed:	Mar-05-10	17:00	Mar-05-10	17:00	Mar-05-10	17:00	Mar-05-10	17:00	Mar-05-10	17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	
Percent Moisture		ND	1.00	11.2	1.00	3.91	1.00	4.65	1.00	9.22	1.00	
TPH By SW8015 Mod	Extracted:	Mar-08-10	09:30	Mar-08-10	09:30	Mar-08-10	09:30	Mar-08-10 (	9:30	Mar-08-10	09:30	
	Analyzed:	Mar-08-10	14:44	Mar-08-10	15:12	Mar-08-10	15:39	Mar-08-10	6:06	Mar-08-10	16:33	
	Units/RL:	mg/kg	RL	mg/kg	RL	тg/kg	RL	mg/kg	RL	mg/kg	RL	
C6-C12 Gasoline Range Hydrocarbons		ND	15.1	ND	16.8	ND	15.6	ND	15.7	ND	16.5	
C12-C28 Diesel Range Hydrocarbons		22.0	15.1	47.6	16.8	ND	15.6	130	15.7	16.9	16.5	
C28-C35 Oil Range Hydrocarbons		ND	15.1	ND	16.8	ND	15.6	39.9	15,7	ND	16.5	
Total TPH		22.0	15.1	47.6	16.8	ND	15.6	170	15.7	16.9	16.5	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratorics XENCO Laboratories assumes no responsibility and makes no warrauty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron, II

Odessa Laboratory Manager

Final Ver. 1.000





- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL Below Reporting Limit.
- **RL** Reporting Limit
- \* Outside XENCO's scope of NELAC Accreditation.

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5757 NW 158th St. Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116

Final Ver. 1.000



# Form 2 - Surrogate Recoveries

# Project Name: Linn Operating

Law Jarkin, H. 19905         Date Analyzes         Disker Jack         Jarkan         Terme Annount         Recovery Status           Units: mg/kg         Date Analyzes         30/08/10 13:22         SURROGATE RECOVERY STUDY           Analytes         102         100         102         70-135           1 Choroociaae         57.3         50.0         115         70-135           2.ab Batch #: 797069         Sample: 5523651-BSD / BSD         Batch:         1         Matrix: Solid           Units: mg/kg         Date Analyzed: 03/08/10 13:49         SURROGATE RECOVERY STUDY         Control           TPH By SW8015 Mod         Amount [B]         Amount [B]         Recovery %R         Limits for the status           Analytes         102         100         102         70-135         5           1-Chlorooctane         101         116         70-135         5           1-Chlorooctane         101         101         100         70-135	ork Orders : 364388	, Sample: 552365-1-BKS/B	KS Botob	Project ID	CA Russel	Battery	
TPH By SW8015 Mod Analytes         Amount Feund [8]         True Annount [8]         Recovery (8,R)         Control Links (8,R)         Fin (8,R)           1-Choroociane         100         100         102         70-135         50- 7-Erphces)         77-3         50.0         1135         70-135         50- 7-Erphces)         70-135         50.0         1135         70-135         50- 7-Erphces)         70-135         50.0         1135         70-135         50- 7-Erphces)         70-135         50.0         1135         70-135         50.0         100         100         100         70-135         50.0         100         100         100         70-135         50.0         100         100         70-135         50.0         100         100         70-135         50.0         100         100         70-135         50.0         100         100         70-135         50.0         100         100         70-135         50.0         100         100         70-135         50.0         110         116         70-135         50.0         100         100         70-135         50.0         100         70-135         50.0         110         100         70-135         50.0         110         100         70-135         50.0         <	Units: mg/kg	Date Analyzed: 03/08/10 13:22	SUI	RROGATE RE	COVERY S	STUDY	
Analytes         102         100         102         70-135           a-Terphenyl         57.3         50.0         115         70-135           a-Terphenyl         57.3         50.0         115         70-135           Lab Batch #: 797069         Sample: 552365-1-BSD / BSD         Batch:         1         Matrix: Solid           Units: mg/kg         Date Analyzed: 03/08/10 13:49         SURROGATE RECOVERY STUDY         Control         Link           TPH By SW8015 Mod         Amount Found         True (A)         Recovery (B)         Control         Link         Fla           1-Chlerooctane         102         100         102         70-135         -         -           TPH By SW8015 Mod         Amount Found [A]         True [B]         Recovery 50.7         S0.3         119         70-135           1-Chlerooctane         101         101         100         70-135         - <th>TPH</th> <th>By SW8015 Mod</th> <th>Amount Found [A]</th> <th>True Amount [B]</th> <th>Recovery %R</th> <th>Control Limits %R</th> <th>Flags</th>	TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
102         100         102         70-135           0-Terphenyl         57.3         50.0         115         70-135           0-Terphenyl         57.3         50.0         115         70-135           0-Terphenyl         57.3         50.0         115         70-135           0-Terphenyl         582055-1-BSD / BSD         Batch: 1         Matrix: Solid           Units: mg/kg         Date Analyzed: 03/08/10 13:49         SURROGATE RECOVERY STUDY           Analytes         102         100         102         70-135           1-Chlorooctane         102         100         102         70-135           c-Terphenyl         58.1         50.1         116         70-135           Lab Batch #: 797069         Sample: 552365-1-BLK / BLK         Batch: 1         Matrix: Solid           Units: mg/kg         Date Analyzet: 03/08/10 14:17         SURROGATE RECOVERY STUDY           TPH By SW8015 Mod         Fund         Recovery 101         Linits 56.4         50.3         119         70-135           Lab Batch #: 797069         Sample: 364388-001 / SMP         Batch: 1         Matrix: Soil         Units: mg/kg         Date Analyzed: 03/08/10 15:44           Units: mg/kg         Date Analyzed: 03/08/10 1/SMP         Batch:		Analytes			[D]		
b-1 criptenyi         57.3         50.0         11.5         7.0-135           Lab Batch #: 797069         Sample: 552365-1-BSD / BSD         Batch: 1         Matrix: Solid           Units: mg/kg         Date Analyzed: 03/08/10 13:49         SURROGATE RECOVERY STUDY           TPH By SW8015 Mod         Amount [B]         True Amount [B]         Recovery %R         Control [D]         Inits: %R         Pla           1-Chlorooctane         102         100         102         70-135         -           -Terphenyl         58.1         50.1         116         70-135         -           -Terphenyl         58.1         50.1         116         70-135         -           -Terphenyl         58.1         50.1         116         70-135         -           Lab Batch #: 797069         Sample: 552365-1-BLK / BLK         Batch: 1         Matrix: Solid         -           Units: mg/kg         Date Analyzet: 03/08/10 14:17         SURROGATE RECOVERY STUDY         -         Control Linits'         Fia           1-Chlorooctane         101         101         100         70-135         -           Lab Batch #: 797069         Sample: 364388-001 / SMP         Batch: 1         Matrix: Soil         -           Units: mg/kg         <	1-Chlorooctane		102	100	102	70-135	
Lab Batch #: 797069         Sample: 552365-1-BSD / BSD         Batch:         1         Matrix: Solid           Units:         mg/kg         Date Analyzed:         03/08/10         13:49         SURROGATE RECOVERY STUDY           TPH By SW8015 Mod         Amount [A]         True (A)         Recovery %R         Control %R         Finitianits %R         Pinitianits %R         Pinitianits %R         Pinitianits           1-Chlorooctane         102         100         102         70-135         70-	о-тегриенут		57.3	50.0	115	70-135	
Units: mg/kg         Date Analyzed: 03/08/10 13:49         SURROGATE         RECOVERY STUDY           TPH By SW8015 Mod         Amount [A]         Amount [B]         Recovery %R         Control %R         Pla           Analytes         102         100         102         70-135         -           1-Chlorooctaae         102         100         102         70-135         -           a-Terphenyl         58.1         50.1         116         70-135         -           Lab Batch #: 797069         Sample: 552365-1-BLK / BLK         Batch:         1         Matrix: Solid         -           TPH By SW8015 Mod         Amount [A]         Recovery [B]         Recovery %R         Inits:         Fin           1-Chlorooctane         101         101         100         70-135         -           1-Chlorooctane         100         30/8/10 14:44         SURROGATE         RECOVERY STUDY           TPH By SW8015 Mod         Amount [A] </td <td>Lab Batch #: 797069</td> <td>Sample: 552365-1-BSD / B</td> <td>SD Batch</td> <td>n: 1 Matrix:</td> <td>Solid</td> <td></td> <td></td>	Lab Batch #: 797069	Sample: 552365-1-BSD / B	SD Batch	n: 1 Matrix:	Solid		
TPH By SW8015 Mod         Amount Found [A]         True [B]         Recovery (B]         Control Limits (P]         Fin           1-Chlorooctane         102         100         102         70-135         -           0-Terphenyl         58.1         50.1         116         70-135         -           Lab Batch #: 797069         Sample: 552365-1-BLK / BLK         Batch:         1         Matrix: Solid         -           TPH By SW8015 Mod         Amount [A]         Recovery (B]         Control (A)         True % R         Recovery % R         Control (A)         Fin           1-Chlorooctane         03/08/10 14:17         SURROGATE RECOVERY STUDY         Control Limits         Fin           1-Chlorooctane         101         101         100         70-135         -           1-Chlorooctane         101         101         100         70-135         -           1-Chlorooctane         101         101         100         70-135         -           1-Chlorooctane         101         100         70-135         -         -           1-Chlorooctane         100         99.9         100         70-135         -           1-Chlorooctane         100         99.9         100         70-135	Units: mg/kg	Date Analyzed: 03/08/10 13:49	SU	RROGATE RE	COVERYS	STUDY	
Interpret         Interpret <t< td=""><td>ТРН</td><td>By SW8015 Mod</td><td>Amount Found [A]</td><td>True Amount [B]</td><td>Recovery %R [D]</td><td>Control Limits %R</td><td>Flags</td></t<>	ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
And         And <td>1-Chlorooctane</td> <td>Analytes</td> <td>102</td> <td>100</td> <td>102</td> <td>70-135</td> <td></td>	1-Chlorooctane	Analytes	102	100	102	70-135	
Lab Batch #: 797069         Sample: 552365-1-BLK / BLK         Batch:         1         Matrix: Solid           Units: mg/kg         Date Analyzed: 03/08/10 14:17         SURROGATE RECOVERY STUDY         Fla           TPH By SW8015 Mod         Amount Found [A]         True [B]         Recovery %R (P]         Control Limits         Fla           1-Chlorooctane         101         101         100         70-135         -           0-Terphenyl         59.7         50.3         119         70-135         -           Lab Batch #: 797069         Sample: 364388-001 / SMP         Batch:         1         Matrix: Soil         -           Units: mg/kg         Date Analyzed: 03/08/10 14:44         SURROGATE RECOVERY STUDY         -	o-Terphenyl		58.1	50 1	116	70-135	
Lab Batch #: 797069         Sample: 35265-1-BLK / BLK         Batch:         1         Matrix: Solid           Units: mg/kg         Date Analyzed: 03/08/10 14:17         SURROGATE RECOVERY STUDY           TPH By SW8015 Mod         Amount Found [A]         True (B]         Recovery (B)         Control Limits %R (D)         Fla           1-Chlorooctane         101         101         100         70-135         -           0-Terphenyl         59.7         50.3         119         70-135         -           Lab Batch #: 797069         Sample: 364388-001 / SMP         Batch:         1         Matrix: Soil         -           Units: mg/kg         Date Analyzed: 03/08/10 14:44         SURROGATE RECOVERY STUDY         -				1 1 1	0-1:3	10 155	
Units: mg/kg         Date Analyzed: 03/08/10 14:17         SURROGATE         RECOVERT STODT           TPH By SW8015 Mod         Amount [A]         True Amount [A]         True Amount [B]         Recovery %R         Control Limits %R         Fla           1-Chlorooctane         101         101         100         70-135         -           o-Terphenyl         59.7         50.3         119         70-135         -           Lab Batch #: 797069         Sample: 364388-001 / SMP         Batch:         1         Matrix: Soil         -           Units: tog/kg         Date Analyzed: 03/08/10 14:44         SURROGATE         Recovery for the mount found [A]         Control [B]         Fla           1-Chlorooctane         100         99.9         100         70-135         -           Lab Batch #: 797069         Sample: 364388-002 / SMP         Batch:         1	Lab Batch #: /9/069	Sample: 552365-1-BLK / E	SLK Batel	DE I Matrix:	Sond	STUDY	
TPH By SW8015 Mod         Amount Found [A]         True Amount [B]         True Amount [B]         Control Amount [B]         Control Amount [B]         Control Amount [B]         Fin           1-Chlorooctane         101         101         100         70-135         -           o-Terphenyl         59.7         50.3         119         70-135         -           Lab Batch #: 797069         Sample: 364388-001 / SMP         Batch:         1         Matrix: Soil         -           Units: rug/kg         Date Analyzed: 03/08/10 14:44         SURROGATE         RECOVERY STUDY         -           TPH By SW8015 Mod         Amount [A]         Amount [B]         Recovery %R         Control Limits %R         Fit           1-Chlorooctane         100         99.9         100         70-135         -           1-Chlorooctane         100         99.9         100         70-135         -           1-Chlorooctane         56.4         50.0         113         70-135         -           Lab Batch #: 797069         Sample: 364388-002 / SMP         Batch:         1         Matrix: Soil         -           Luits: trig/kg         Date Analyzed: 03/08/10 15:12         SURROGATE         RECOVERY STUDY         -           TPH By SW8015 Mod	Units: mg/kg	Date Analyzed: 03/08/10 14:17	50	KNOGATE RE			
I-Chlorooctane         101         101         100         70-135           1-Chlorooctane         59.7         50.3         119         70-135           o-Terphenyl         59.7         50.3         119         70-135           Lab Batch #: 797069         Sample: 364388-001 / SMP         Batch:         1         Matrix: Soil           Units: mg/kg         Date Analyzed: 03/08/10 14:44         SURROGATE RECOVERY STUDY         Flamits           TPH By SW8015 Mod         Amount [A]         True Found         Recovery %R         Control Limits         Flamits           1-Chlorooctane         100         99.9         100         70-135         -           Lab Batch #: 797069         Sample: 364388-002 / SMP         Batch:         1         Matrix: Soil           Units: mg/kg         Date Analyzed: 03/08/10 15:12         SURROGATE RECOVERY STUDY         -           TPH By SW8015 Mod         Amount Found         True Amount [A]         Recovery [D]	ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
o-Terphenyl         S0.         100 <th< td=""><td>1-Chlorooctane</td><td></td><td>101</td><td>101</td><td>100</td><td>70-135</td><td></td></th<>	1-Chlorooctane		101	101	100	70-135	
Lab Batch #: 797069         Sample: 364388-001 / SMP         Batch:         1         Matrix: Soil           Units: tag/kg         Date Analyzed: 03/08/10 14:44         SURROGATE RECOVERY STUDY           TPH By SW8015 Mod         Amount Found [A]         True Amount [B]         Recovery %R         Control Limits         Fla           1-Chlorooctane         100         99.9         100         70-135         -           0-Terphenyl         56.4         50.0         113         70-135         -           Lab Batch #: 797069         Sample: 364388-002 / SMP         Batch:         1         Matrix: Soil         -           Lab Batch #: 797069         Sample: 364388-002 / SMP         Batch:         1         Matrix: Soil         -           Units: tag/kg         Date Analyzed: 03/08/10 15:12         SURROGATE RECOVERY STUDY         -         -           TPH By SW8015 Mod         Amount Found [A]         True [B]         Recovery %R         Control Limits %R         Fla           1-Chlorooctane         89.3         99.6         90         70-135           0-Terphenyl         53.5         49.8         107         70-135	o-Terphenyl	······································	59.7	50.3	119	70-135	
Lab Batch #: 191607     Date Analyzed: 03/08/10 14:44     SURROGATE RECOVERY STUDY       TPH By SW8015 Mod     Amount [A]     True Found [A]     Recovery [B]     Control Limits %R     Fla       1-Chlorooctane     100     99.9     100     70-135       o-Terphenyl     56.4     50.0     113     70-135       Lab Batch #: 797069     Sample: 364388-002 / SMP     Batch:     1     Matrix: Soil       Units: mg/kg     Date Analyzed: 03/08/10 15:12     SURROGATE RECOVERY STUDY       TPH By SW8015 Mod     Amount Found [A]     True Batch:     1     Matrix: Soil       TPH By SW8015 Mod     Amount [A]     Fla     1     Matrix: Soil       Units: mg/kg     Date Analyzed: 03/08/10 15:12     SURROGATE RECOVERY STUDY       TPH By SW8015 Mod     Amount [A]     Fla     Pla       Analytes     1     Matrix: Soil     Fla       1-Chlorooctane     89.3     99.6     90     70-135       0-Terphenyl     53.5     49.8     107     70-135	Lah Batch #• 797069	Sample: 364388-001 / SMI	P Bate	h- 1 Matrix	Soil	1	I
TPH By SW8015 Mod         Amount Found [A]         True Amount [B]         Recovery %R [D]         Control Limits %R         Fl: %R           1-Chlorooctane         100         99.9         100         70-135         -           o-Terphenyl         56.4         50.0         113         70-135         -           Lab Batch #: 797069         Sample: 364388-002 / SMP         Batch:         1         Matrix: Soil         -           Units: tng/kg         Date Analyzed:         03/08/10 15:12         SURROGATE         RECOVERY STUDY         -           TPH By SW8015 Mod         Amount Found [A]         True Bill         Recovery %R [D]         Control Limits %R [D]         Finite Finite           1-Chlorooctane         03/08/10 15:12         SURROGATE         Recovery %R [D]         Control Limits %R [D]         Finite           1-Chlorooctane         89.3         99.6         90         70-135         -           1-Chlorooctane         89.3         99.6         90         70-135         -           0-Terphenyl         53.5         49.8         107         70-135         -	Units: ma/ka	Date Analyzed • 03/08/10 14-44	SU	RROGATE RI	COVERY	STUDY	
Analytes         [D]         I           1-Chlorooctane         100         99.9         100         70-135           o-Terphenyl         56.4         50.0         113         70-135           Lab Batch #: 797069         Sample: 364388-002 / SMP         Batch:         1         Matrix: Soil           Units: mg/kg         Date Analyzed: 03/08/10 15:12         SURROGATE RECOVERY STUDY         TPH By SW8015 Mod         Amount Found IB          Recovery VR         Control Limits         Fh           Analytes         IA         89.3         99.6         90         70-135         Fh           1-Chlorooctane         89.3         99.6         90         70-135         Fh	TPH	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flage
1-Chlorooctane       100       99.9       100       70-135         o-Terphenyl       56.4       50.0       113       70-135         Lab Batch #: 797069       Sample: 364388-002 / SMP       Batch:       1       Matrix: Soil         Units: mg/kg       Date Analyzed: 03/08/10 15:12       SURROGATE       RECOVERY STUDY         TPH By SW8015 Mod       Amount [A]       True [B]       Recovery %R [D]       Control Limits %R [D]       Fill         1-Chlorooctane       89.3       99.6       90       70-135         o-Terphenyl       53.5       49.8       107       70-135		Analytes		}	[D]		
o-Terphenyl         56.4         50.0         113         70-135           Lab Batch #: 797069         Sample: 364388-002 / SMP         Batch:         1         Matrix: Soil           Units: mg/kg         Date Analyzed: 03/08/10 15:12         SURROGATE         RECOVERY STUDY           TPH By SW8015 Mod         Amount Found [A]         True [B]         Recovery %R [D]         Control Limits %R [D]         Fil           1-Chlorooctane         89.3         99.6         90         70-135           o-Terphenyl         53.5         49.8         107         70-135	1-Chlorooctane		100	99.9	100	70-135	
Lab Batch #: 797069         Sample: 364388-002 / SMP         Batch:         1         Matrix: Soil           Units: mg/kg         Date Analyzed: 03/08/10 15:12         SURROGATE         RECOVERY STUDY           TPH By SW8015 Mod         Amount [A]         True [B]         Recovery %R         Control Limits         Fill           Analytes         89.3         99.6         90         70-135           1-Chlorooctane         53.5         49.8         107         70-135	o-Terphenyl		56.4	50.0	113	70-135	
Units: mg/kgDate Analyzed: 03/08/10 15:12SURROGATERECOVERY STUDYTPH By SW8015 ModAmount Found [A]True Amount [B]Recovery %R [D]Control Limits %R %RFillAnalytes89.399.69070-1351-Chlorooctane53.549.810770-135	Lab Batch #: 797069	Sample: 364388-002 / SM	P Bate	h: 1 Matrix	Soil		
TPH By SW8015 ModAmount Found [A]True Amount [B]Control Limits %RFitAnalytes89.399.69070-1351-Chlorooctane53.549.810770-135	Units: mg/kg	Date Analyzed: 03/08/10 15:12	SU	RROGATE RI	ECOVERY	STUDY	<u></u>
1-Chlorooctane         89.3         99.6         90         70-135           o-Terphenyl         53.5         49.8         107         70-135	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
o-Terphenyl 53.5 49.8 107 70-135	1-Chlorooctane		89.3	99.6	90	70-135	
	o-Terphenyl	······································	53.5	49.8	107	70-135	+

\* Surrogate outside of Laboratory QC limits
 \*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / BAll results are based on MDL and validated for QC purposes.



# Form 2 - Surrogate Recoveries

### Project Name: Linn Operating

Work Orders : 364388	2		Project ID	CA Russel	Battery						
Lab Batch #: 797069	Sample: 364388-003 / SMP	Batch	: 1 Matrix:	Soil							
Units: mg/kg	Date Analyzed: 03/08/10 15:39	SU	SURROGATE RECOVERY STUDY								
TPH	By SW8015 Mod	Amount Found [A]	Тгие Amount [B]	Recovery %R	Control Limits %R	Flags					
	Analytes			[0]							
1-Chlorooctane		100	99.9	100	70-135						
o-Terphenyl		60.2	50.0	120	70-135						
Lab Batch #: 797069	Sample: 364388-004 / SMP	Batel	h: 1 Matrix:	Soil							
Units: mg/kg	Date Analyzed: 03/08/10 16:06	SU	RROGATE RE	COVERY S	STUDY						
TPH	By SW8015 Mod Analvtes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctane		106	99,9	106	70-135						
o-Terphenyl		63.5	50.0	127	70-135						
Lah Batch #• 797069	Sample: 364388-005 / SMP	Bate	h- 1 Matrix:	Soil							
Units: mg/kg	Date Analyzed: 03/08/10 16:33	SU	RROGATE RE	COVERY S	STUDY						
ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctane		106	100	106	70-135						
o-Terphenyl		64.5	50.0	129	70-135						
Lab Batch #: 797069	Sample: 364388-003 S / MS	Bate	h: l Matrix:	Soil	•						
Units: mg/kg	Date Analyzed: 03/09/10 00:11	· SU	RROGATE RE	COVERY	STUDY						
ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
	Anaiytes										
I-Chlorooctane	•	103	99.6	103	70-135						
o-lerphenyl		58.4	49.8	117	70-135						
Lab Batch #: 797069	Sample: 364388-003 SD / M	ASD Bate	h: 1 Matrix	Soil							
Units: mg/kg	Date Analyzed: 03/09/10 00:38	SU	RROGATE RI	ECOVERY	STUDY						
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctane	· · · · · · · · · · · · · · · · · · ·	106	99.8	106	70-135						
o-Terphenyl		60.3	49.9	121	70-135	1					

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / BAll results are based on MDL and validated for QC purposes.





### Project Name: Linn Operating

Work Order #: 364388		Pr	oject ID:		CA Russel	l Battery	
Lab Batch #: 797091	Sample: 797091-	Sample: 797091-1-BKS Matrix: S					
Date Analyzed: 03/09/2010	Date Prepared: 03/09/20	010	: LATCOF	Ł			
Reporting Units: mg/kg	Batch #: 1	Batch #: 1 BLANK /BLANK SPIKE RE					
Anions by E300	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags	
Analytes	[A]	[B]	Result [C]	%R [D]	%R		
Chloride	ND	10.0	9.93	99	75-125		

Blank Spike Recovery [D] = 100\*[C]/[B] All results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit



### **BS / BSD Recoveries**



### Project Name: Linn Operating

Work Order #: 364388 Analyst: BEV Lab Batch ID: 797069	Sample: 552365-1-BKS	Da	ite Prepar Batcl	red: 03/08/201 h #: 1	.0		Project ID: CA Russel Battery Date Analyzed: 03/08/2010 Matrix: Solid						
Units: mg/kg		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
TPH By SW801 Analytes	5 Mod B Samp	Blank ple Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
C6-C12 Gasoline Range Hydrocar	bons	ND	1000	902	90	1000	904	90	0	70-135	35		
C12-C28 Diesel Range Hydrocarb	ons	ND	1000	775	78	1000	991	99	24	70-135	35		

Relative Percent Difference RPD = 200\*|(C-F)/(C+F)| Blank Spike Recovery [D] = 100\*(C)/[B] Blank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on MDL and Validated for QC Purposes

Final Ver. 1.000



### Form 3 - MS Recoveries



### **Project Name: Linn Operating**

Work Order #: 364388 Lab Batch #: 797091 Date Analyzed: 03/09/2010 F

Project ID: CA Russel Battery Analyst: LATCOR

Date Analyzed: 03/09/2010	Date Prepared: 03/09	/2010	Analyst: LATCOR						
QC- Sample ID: 364388-001 S	Batch #: 1		P	Matrix: Soil					
Reporting Units: mg/kg	MATR	IX / MA	ATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag			
Analytes	[A]	[B]							
Chloride	ND	101	107	106	75-125				

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B Relative Percent Difference [E] = 200\*(C-A)/(C+B) All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



# Form 3 - MS / MSD Recoveries

### **Project Name: Linn Operating**



Work Order #: 364388	Project ID: CA Russel Battery											
Lab Batch ID:         797069         Q           Date Analyzed:         03/09/2010         1	C- Sample ID: Date Prepared:	364388 03/08/2	-003 S 010	Ba An	tch #: alyst:	1 Matri BEV	x: Soil					
Reporting Units: mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
TPH By SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag	
Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD		
C6-C12 Gasoline Range Hydrocarbons	ND	1040	926	89	1040	965	93	4 ;	70-135	35		
C12-C28 Diesel Range Hydrocarbons	ND	1040	843	81	1040	796	77	6	70-135	35		

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B Relative Percent Difference RPD = 200\*[(C-F)/(C+F)] Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit



# Sample Duplicate Recovery

.



### **Project Name: Linn Operating**

#### Work Order #: 364388

Lab Batch #: 797091		J	Project D	D: CA Russe	el Battery				
Date Analyzed: 03/09/2010 Date Prep	ared: 03/09/2010	) Anal	yst:LATC	OR					
QC- Sample ID: 364388-001 D Ba	ich #: 1	Mat	rix: Soil						
Reporting Units: mg/kg	SAMPLE / SAMPLE DUPLICATE RECOVE								
Anions by E300	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag				
Analyte		[B]							
Chloride	ND	ND	NC	20					
Lab Batch #: 796849									
Date Analyzed: 03/05/2010 Date Prep	ared: 03/05/2010	) Anal	yst:WRU						
QC- Sample ID: 364467-001 D Ba	tch #: 1	Mat	rix: Soil						
QC- Sample ID: 364467-001 D Ba Reporting Units: %	tch #: 1 SAMPLE	Mat	rix: Soil DUPLIC	ATE REC	OVERY				
QC- Sample ID: 364467-001 D Ba Reporting Units: % Percent Moisture Analyte	tch #: 1 SAMPLE , Parent Sample Result [A]	Mat / SAMPLE Sample Duplicate Result [B]	rix: Soil DUPLIC RPD	ATE REC Control Limits %RPD	Flag				

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

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,	Project Manager:	Logan Anderson	1												-	Pro	yjeci	: Nas	<b>110</b> 2	L	.113	3	0	PE1	2.50	<u>[] N</u>	<u>_م</u>			
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## Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client:	Elke Env.
Date/ Time:	3.4.10 14:39
Lab ID # :	364388
Initiale:	A

### Sample Receipt Checklist

	· · · · · · · · · · · · · · · · · · ·				lient Initials
#1	Temperature of container/ cooler?	Yes	No	5.0 °C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	(es)	No	Not Present	
#5	Chain of Custody present?	(fes)	No		
#6	Sample instructions complete of Chain of Custody?	Ces	No		
#7	Chain of Custody signed when relinquished/ received?	(Tes)	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		****
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(789)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

#### Variance Documentation

Contact

Regarding:

Corrective Action Taken:

Check all that Apply:

See attached e-mail/ fax

Contacted by:

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Client understands and would like to proceed with analysis Cooling process had begun shortly after sampling event

Final Ver. 1.000

Date/ Time:

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